Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Site Clearance and Dismantling

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in R
1.01	KSRRB 200-1: Cutting of trees girth from 300mm to 600mm including cutting of trunks branches and removal of stumps stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Chapter 2								
	(P.No. 143, I.No. 18.1 of PW, P&IWTD S.R 2011-1	2)		1					
	COMES CARRIES AND CONTROL		7				7,00	145.098	1015.6
	KSRRB 200-1: Cutting of trees girth from 600mm to 900mm including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Ghapter 2								
	(P.No. 143, I.No. 18.2 of PW, P&IWTD S.R 2011-12	2)				-		-	
		i en en	10				10.00	290.142	2901.42
b s	KSRRB 200-1: Cutting of trees girth from 900mm to 1800mm including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per pecifications. MORTH Chapter 2	Each							
(I	P.No. 143, I.No. 18.3 of PW, P&IWTD S.R 2011-12		+						
-			8				. 8.00	724.68	5797.44
tr of de	SRRB 200-1: Cutting of trees girth from I 800mm to 2700mm including cutting of runks, branches and removal of stumps stacking serviceable materials earth filling in the epressions / pit, labour charges complete as per secifications. MORTH Chapter 2	Each							3.0
(P.	No. 143, I.No. 18.4 of PW, P&IWTD S.R 2011-12)		+		-				
			7				7.00	1208.52	8459.64
and ma lab	BRRB 200-1: Cutting of trees girth from above E 000mm including cutting of trunks, branches d removal of stumps stacking of serviceable sterials earth filling in the depressions / pit, our charges complete as per specifications. DRTH Chapter 2	ach							5455,04
(P.1	No. 143, I No. 18.5 of PW, P&IWTD S.R 2011-12)		-		•				
The second second	5. L. 1. (1 C. 1 L. D. G. R. 2011-12)	1	1		1000				

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantit	Rate in Rs.	Amount in F
1.06	KSRRB M200-12.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of mason cement concrete, wood work, steel work	ng y,							
	including T&P and scaffolding wherev necessary, sorting the dismantled material disposal of unserviceble material and stacking	er il.					. :		
	the serviceable material with all lifts complete a per specifications. i) Lime/Cement Concrete. I.E. Manual means, A. Lime Concrete, Cement Concrete Grade M-10 & below PCC	By							
	(P.No.144, I.No.18.17 of PW,P&IWTD S.R 2011-	19)							
	Compound Bed Concrete	12)	1	60.00	0.90	0.10	5.40		
	Drain Bed			00.00	0.00	0.10	, 0.40		
	LHS		1	556.00	1.85	0.10	102.86		
	RHS		1	657.00	1.85	0.10	121.55		
-					1		229.81		
					:	Say	230.00	244.08	56138.40
i i i	KSRRB M200-12.2. Dismantling of existing structures like culverts. Bridges, retaining walls and other structure comprising of masonry cement concrete, wood work, steel work including T&P and scaffolding whereve necessary, sorting the dismantled material disposal of unserviceble material and stacking the serviceble material and serviceble material with all lifts complete as per specifications. I Lime/Cement Concrete I. By Manual means, A Lime Concrete, Cement Concrete Grade M-15 & M-20 PCC		.					÷.	
	P.No. 144, I.No. 18.18 of PW,P&IWTD S.R 2011-1	2)							
	Compound Plinth & Coping		2	60.00	0.45	0.10	5.40		
	ootpath .HS								20 mm
			1	75.00	1.50	0.15	.16.88		
	/w Main Carriageway and Service Road		1	480.00	4.00	0.15	288.00		
R	etaining Wall		1	680.00	0.45	0.10	30.60		
-			-				340.88		
-		-	-			Say	341.00	293,76	100172.16
08 R	emoving of Footpath slab	Sqm							
(P	No.268, I.No. 37.56 of PW,P&IWTD S.R 2011-1	2)		Farmer III					
-	HS		1	75.00	. 1.50		-112.50		
B/	w Main Carriageway and Service Road		1	180.00	4.00		720.00		
					Armer Philips		832.50	TENENT TO	
						Say	832.50	95.796	79750.17
-	emoving BS Slab of Drain and Stacking	Sqm							
LH	No.28, I.No. 5.32 of PW,P&IWTD S.R 2011-12)		1	481.00	2.00		962.00		
RF			1.	657.00	3.50		2299.50		
Be	tween Main Carriageway and Service Road:	7.					2200.00		
RH	IS		1	180.00	3.00		540.00		
Ke	rb LHS		-	556.00	0.40		222.40		
Ker	rb RHS		_	657.00	0.40		262.80		
Me	dian Kerb			690.00	0.40		552.00		
		The land				-	838.70		
					manufacture de la constitución d		3.4400 COOL 5.000	and the second s	and the state of t

Sl. No.	Description of work		No.	Length (m)	Breadtl (m)	Depth (m)	Quantit	Rate in Rs.	Amount in
1.10	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry cement concrete, wood work, steel work including T&P and scaffolding wherever necessary, sorting the dismantled material disposal of unserviceble material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling Stone Masonary B. Rubble Stone Masonry, in Cement Mortar. SSM		·	÷					
	(P.No.145, I.No.18.27 of PW,P&IWTD S.R 2011-1	2)				-			
	For Drain	-							
	LHS		2	556.00	0.45	1.00	500.40		
	RHS		2	657.00	0.45	1.00	500.40		
	For Compound		-	007.00	0.43	1.00	591.30		
	Sub Structure		1	60.00	0.75	0.05			
			1	60.00	0.60	0.25	11.25		
			1.	60.00	0.60	0.60	21.60		
5	Super Structure		1	60.00	0.45	0.45	12.15	• •	
F	Retaining Wall		1	680.00	0.45	2.00	54.00		
2010			-	000.00	0.45	1.00	306.00		
			-			-	1496.70		
		-	-			Say	1497.00	194.4	291016.80
D	Dismantling of Existing Culverts	-	-						
dis ur se:	scluding T&P and scaffolding wherever ecessary, sorting the dismantled material, sposal of unserviceble material, disposal of unserviceble material and stacking the rviceable material with all lifts complete as per ecifications. i) Lime/Cement Concrete.I.By anual means, A. Lime Concrete, Cement concrete Grade M-10 & below PCC								
(P.	No. 144, I.No. 18.17 of PW,P&IWTD S.R 2011-12)		-			356			
Be	d Concrete	-	+						Self to the self
10r	m Length	1 1	-	10.00	2.10	0.10		* 2 11 P	
8m	Length	1 1	_	8.00	2.10	0.10	2.10		Ne Salas III
-					2.10	0.10	3.78		
						Sav	4.00	244.08	976.32
IVO	DDD Moss							244.00	310.32
cem incl nece disp	RRB M200-15.2. Dismantling of existing cuctures like culverts, Bridges, retaining Is and other structure comprising of masonry, ent concrete, wood work, steel work, uding T&P and scaffolding wherever essary, sorting the dismantled material, cosal of unserviceble material and stacking serviceable material with all lifts complete as specifications. ii) Dismantling Stone	um .			/ .				
per Mas	onary B. Rubble Stone Masonry, in ment Mortar. SSM						1		
per Mass Cen	onary B. Rubble Stone Masonry, in nent Mortar. SSM	+	-			-		-	
per Mass Cen (P No	onary B. Rubble Stone Masonry, in nent Mortar. SSM o.145, I.No. 18.27 of PW,P&JWTD S.R 2011-12)	+				=			
per Mass Cen (P No SSM 10m	onary B. Rubble Stone Masonry, in ent Mortar. SSM o.145, I.No. 18.27 of PW,P&JWTD S.R 2011-12) Length	1 2		10.00	0.45 1	.00	9.00		
per Mass Cen (P No SSM 10m	onary B. Rubble Stone Masonry, in nent Mortar. SSM o.145, I.No. 18.27 of PW,P&JWTD S.R 2011-12)		-	8.00			9.00 7.20		
per Mass Cen (P No SSM 10m	onary B. Rubble Stone Masonry, in ent Mortar. SSM o.145, I.No. 18.27 of PW,P&JWTD S.R 2011-12) Length	1 2	-			.00			

No.	Description of work	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
1.13	KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry cement concrete, wood work, steel work including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. By mechanical means, A. Cement concrete Grade M-15 & M-20.								
	(P.No. 144, I.No. 18.20 of PW,P&IWTD S.R 2011-12	3)							
	Deck Slab 10m Length						100		
	8m Length	1	1		1.90	0.30	5.70	orald see a	
		1	1	8.00	1.90	0.30	4.56		
						Say	10.26	294.00	2100
1.14	KSRRB M200-17.1. Dismantling of existing			7/15		Jay .	10.50	324.00	3402.0
t r c c	and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling stone masonry. A. Steel Work in all types of sections upto a Height of 5m above plinth level excluding utting of rivet including dismembering.								
C	P.No.145, I.No.18.33 of PW,P&IWTD S.R 2011-12) Consider 100kg/Cum for Slab		-			U	5-12-7		
	· ·	- :	1	10.50		Say	1.05		
ag tip los ex-	SRRB M100-4.1. Cost of Haulage including Conding and Unloading of Stone Boulder / Stone garegates / Sand / Kanker / Moorum.Placing oper at loading point, loading with front end ader, dumping turning for return trip, cluding time for haulage and return trip mplete as per specifications. MORTH-100 hapter 1 Case-I: Surface Road	um • .					1.50	928.80	1393.20
P.	No.141&147, of PW, P&IWTD SR 2011-12)	-	-						
Qn	ty same as item No. 1.10, 1.12		1			-			
Da					A CARLO STATE OF THE PARTY OF T				
For	20Km RS. 2 X 1.8 X 20 = (72.00 + 62.20) X 8 = 144.94	1	. 1	513.50		- 15	13.50	144.94	2 19360.64
1.08	8 = 144.94		1	513.50		- 15	13.50	144.94	2 19360.64
KSI Loa aggr tipp load exclusion Chap	RRB M100-4.1. Cost of Haulage including ding and Unloading of Stone Boulder / Stone regates / Sand / Kanker / Moorum.Placing er at loading point, loading with front end er, dumping , turning for return trip, uding time for haulage and return trip plete as per specifications. MORTH-100/pter 1 Case-I: Surface Road			513.50		15	513.50	144.94	219360.64
KSI Loa aggr tipp load exclusion Chap	RRB M100-4.1. Cost of Haulage including ding and Unloading of Stone Boulder / Stone regates / Sand / Kanker / Moorum.Placing er at loading point, loading with front end er, dumping , turning for return trip, uding time for haulage and return trip plete as per specifications. MORTH-100/pter 1 Case-I: Surface Road			513.50		- 15	513.50	144.94	219360.64
KSI Loa aggr tipp load exch comp Chap	RRB M100-4.1. Cost of Haulage including ding and Unloading of Stone Boulder / Stone regates / Sand / Kanker / Moorum.Placing er at loading point, loading with front end er, dumping , turning for return trip, uding time for haulage and return trip plete as per specifications. MORTH-100/pter 1 Case-I: Surface Road			513.50		15	513.50	144.94	219360.64
KSI Loa aggi tipp load excle comp Chap (P.No.	RRB M100-4.1. Cost of Haulage including ding and Unloading of Stone Boulder / Stone regates / Sand / Kanker / Moorum.Placing er at loading point, loading with front end er,dumping , turning for return trip, uding time for haulage and return trip plete as per specifications. MORTH-100/pter 1 Case-I: Surface Road 0.141&147, of PW. P&IWTD SR 2011-12) same as item No. 1.06,1.07.(1.08 X 0.10), X 0.45 X 0.20), 1.11, 1.13			52.65		. 1150		144.94	219360.64
KSI Loa aggi tipp load exch com Chap (P.No Qnty (1.09	RRB M100-4.1. Cost of Haulage including ding and Unloading of Stone Boulder / Stone regates / Sand / Kanker / Moorum.Placing er at loading point, loading with front end er,dumping , turning for return trip, uding time for haulage and return trip plete as per specifications. MORTH-100/pter 1 Case-I: Surface Road 0.141&147, of PW. P&IWTD SR 2011-12) same as item No. 1.06,1.07.(1.08 X 0.10), X 0.45 X 0.20), 1.11, 1.13	m .			Sa	- 1153	2.65		219360.64

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
1.17	KSRRB M100-4.2. Haulage of materials by tipper Including cost of loading, unloading and stacking complete as per specifications. MoRT&H Chapter 1 For Steel						·		
	(P.No.141&147, of PW, P&IWTD SR 2011-12)							-	
	Qnty same as item No. 1.14.							W. Carlo	
	For 20Km Rs. 2.00 X 7.85 X 20 = (52.00 + 103.70)X1.08=451.12		1	1.50		-	1.50	451.12	676.67
						145			1163833.73
1.18	Miscellaneous and Rounding off								166.27
		College		Total Co	ost of Site	Clearar	nce and Dis	mantling	1164000.00

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Formation of Slip Road and Surface Level Road

SI. No.	Description of work	Unit	No.	Lengtl (m)	Bread (m)	th Depti		Rate in Rs.	Amount in
	KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of cloda complete as per specifications. MORTH Chapter 3.								
	(P.No. 149, I.No.19.1 of PW, P & IWTD SR 2011	12)			-	-			
	West side	/				-			
	From CH-1060 to CH-1160		1	100.00	1004	-			
	From CH-1000 to CH-1050(Junction)		1						
	From CH-820 to CH-1000	700	1	180.00	1	2100	0 20.21		
	From CH-740 to CH-820 (Junction)		1	80.00					
1	From CH-560 to CH-740		1	180.00	-		1.0120		
	East Side		1	100.00	5.33	1.09	1044.91		
I	From CH-1060 to CH-1160		1	100.00	9.03	1.00	001-	NI STATE OF THE PARTY OF THE PA	
F	From CH-1000 to CH-1050(Junction)		1	50.00	8.21	1.09	984.54		
	From CH-820 to CH-1000		1	180.00	7.90	1.09	447.17		
F	rom CH-740 to CH-820 (Junction)		1	80.00	8.68	1.09	1549.98		
	rom CH-560 to CH-740	1	1	180.00		1.09	756.46	Manual Control	
F	or Providing Left Turn from Service Road LHS		1	880.		1.09	1163.47		Name of the last
F	or Providing Left Turn from Service Road RHS		1	150.		1.09	959.20		
+			-			1.03	163.50 10828.01		
+		-		1		Say	10828.50	62.86	
K	SRRB M100-4.2. Haulage of materials by	Cum	-					0.00	680636.20
st:	oper Including cost of loading, unloading and acking complete as per specifications. oRT&H Chapter 1 Case-I: Surface Road								
(P.	No. 141&147 of PW, P&IWTD S.R 2011-12)			-			10828.50	123.34	1335587.19
KS	RRB M300-55. Construction of subgrade (dearthen shoulders with approved material	Cum							
gra tra req req spe cha	nsporting to site, spreading grading to uired slope and compacted to meet uirement of Table 300-2 complete as per cifications (including cost of earth, watering rges & compaction by vibratory roller) RTH Specification No. 305								
P.N	No. 156, I.No. 19.62 of PW, P&IWTD S.R 2011-12)				virone -				
Mar	st side		1						
Ves			-	100.00	10.34	0.50	516.88		
Ves	m CH-1060 to CH-1160			50.00	9.53	0.50	238.13		
Ves roi roi	n CH-1000 to CH-1050(Junction)	- 10	1	-		11 AND 12 AND 15	152/00/00/00		
Ves roi roi	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000		1 1	80.00	8.33	0.50	749.88		
Ves roi roi roi	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000 n CH-740 to CH-820 (Junction)		1 1	80.00	8.33 5.48	0.50	749.88 219.33		
ron ron ron ron	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000 n CH-740 to CH-820 (Junction) n CH-560 to CH-740		1 1	80.00					
Ves ron ron ron ast	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000 n CH-740 to CH-820 (Junction) n CH-560 to CH-740 Side		1 1	80.00 80.00 80.00	5.48	0.50	219.33		
Ves ron ron ron ast	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000 n CH-740 to CH-820 (Junction) n CH-560 to CH-740 Side n CH-1060 to CH-1160		1 1	80.00 80.00 80.00	5.48 5.33 9.03	0.50 0.50	219.33 479.31 451.63		
ron ron ron ron ron	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000 n CH-740 to CH-820 (Junction) n CH-560 to CH-740 Side n CH-1060 to CH-1160 n CH-1000 to CH-1050(Junction)		1 1	80.00 80.00 80.00 00.00 50.00	5.48 5.33 9.03 8.21	0.50 0.50 0.50 0.50	219.33 479.31 451.63 205.13		
ron ron ron ron	n CH-1000 to CH-1050(Junction) n CH-820 to CH-1000 n CH-740 to CH-820 (Junction) n CH-560 to CH-740 Side n CH-1060 to CH-1160		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80.00 80.00 80.00	5.48 5.33 9.03	0.50 0.50	219.33 479.31 451.63		

SI. No.	Section of work	Unit	No.	· Length	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in R
	For Providing Left Turn from Service Road LH	s	1	880	0.00	0.50	440.00		la colle
	For Providing Left Turn from Service Road RH	S	1	1	0.00	0.50	440.00 75.00		
	Filling of Tree roots area		38	2.00	2.00	2.50	380.00		
							5346.98		
001	Lyon	100				Say	5347.00	174.96	025511.16
	KSRRB M400-7 Construction of granular subbase by providing coarse graded material spreading in uniform layers with motor grades on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per specifications. For Coarse graded granular sub-base material as per 400-2 For Grading I Material.								935611.15
-	(P.No.164, I.No.20.6.1 of PW,P&IWTD S.R 2011- West side	-12)							
	From CH-1060 to CH-1160		-	100.51					A STATE OF THE STATE OF
	From CH-1000 to CH-1160 Junction)	-	1	100.00	10.34	0.20	206.75		1
	From CH-820 to CH-1000		1	50.00	9.53	0.20	95.25		
	From CH-740 to CH-820 (Junction)		1	180.00	8.33	0.20	299.95		
	From CH-560 to CH-740		1	80.00	5.48	0.20	87.73		
	East Side		1	180.00	5.33	0.20	191.73		Sex Superior
	From CH-1060 to CH-1160		1	100.00	9.03	0.20	100.00		
1	From CH-1000 to CH-1050(Junction)		1	50.00	8.21	0.20	180.65		
1	From CH-820 to CH-1000		1	180.00	7.90	0.20	82.05		
1	From CH-740 to CH-820 (Junction)	1	1	80.00	8.68	0.20	284.40		
	From CH-560 to CH-740		1	180.00	5.93	0.20	138.80		
F	or Providing Left Turn from Service Road LHS	alle a la	1	880.0		0.20	213.48 176.00		
F	or Providing Left Turn from Service Road RHS		1	150.0		0.20	30.00		
_						0.20	1986.79		
1			-			Say	1987.00	1 1000	1000
a pr of pa su ac Sr	SRRB M400-17. Providing laying, spreading and compacting graded stones aggregate to wethix macadam specifications including remixing the material with water at OMC in techanical mix plant carriage of mixed method tipper to site, laying in uniform layers with aver in sub-base / base course on well prepared arface and compacting with vibratory roller to thieve the desired density complete as perpecifications. MORTH Specification No. 406. No. 166, I.No. 20. 18 PW.P&IWTD S.R 2011-12)	Cum	·					1050.84	2088019.08
W	est side								
Fr	om CH-1060 to CH-1160		1	100.00	10.34	0.05	070 1		
Fr	om CH-1000 to CH-1050(Junction)		1	50.00	9.53	0.25	258.44		
Fr	om CH-820 to CH-1000		1.1	180.00	8.33	0.25	119.06 374.94		
Fr	The control of the co		1	80.00	5.48	0.25	109.67		
	om CH-560 to CH-740		1	180.00	5.33	0.25	239.66		
-	st Side								
Fre	om CH-1060 to CH-1160		1	100.00	9.03	0.25	225.81		
Fre	om CH:1000 to CH-1050(Junction)		1	50.00	8.21	0.25	102.56		
Fro	m CH-820 to CH-1000	and a second	1	180.00	7.90	0.25	355.50		
P	m CH-740 to CH-820 (Junction)		1	80.00	8.68	0.25	173.50		
	m CH-560 to CH-740 Providing Left Turn from Service Road LHS		1	180.00	5.93	0.25	266.85		
	LIUVIGING Lett Lurn from Service Road I HC		1	880.00		0.25	220.00	:	
For	Providing Land Mark Control Providing Land Mark Control					-			
For	Providing Left Turn from Service Road RHS		1	150.00		0.25	37.50		
For	Providing Left Turn from Service Road RHS		1	150.00					

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in R
2.06	KSRRB M500-6. Providing and applying Primer coat with bitumen emulsion or prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH			*					
	Specification No.502								
	(P.No.171, I.No.21.6 of PW,P&IWTD S.R 2011-1	2)							
	West side								
	From CH-1060 to CH-1160		1	. 100.00	10.34		1033.75		
	From CH-1000 to CH-1050(Junction)		1	50.00	9.53		476.25		
-	From CH-820 to CH-1000		1	180.00	8.33		1499.76	man of the second	
	From CH-740 to CH-820 (Junction)	10-1-1	.1	80.00	5.48		438.67		
	From CH-560 to CH-740		1	180.00	5.33		958.63		
_	East Side					TO ALE			
	From CH-1060 to CH-1160		1	100.00	9.03		903.25		
	From CH-1000 to CH-1050(Junction)		1	50.00	8.21		410.25		
	From CH-820 to CH-1000		1	180.00	7.90		1422.00		
	From CH-740 to CH-820 (Junction)		1	80.00	8.68		694.00		
	From CH-560 to CH-740		1	180.00	5.93		1067.40		
	For Providing Left Turn from Service Road LHS		1	880.0	00	-	880.00		
	For Providing Left Turn from Service Road RHS		. 1	150.0	0		150.00		
						10000	9933.96		
						Say	9934.00	40,59	403185.30
f s H	KSRRB 500-8 Providing and applying tack coat on granular surface treated with primer at 8 Kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, dOM of machienries complete as per pecifications, MORTH Chapter 5								
	P.No. 172 I.No.21.8 of PW,P&IWTD S.R 2011-12)					11.75			1.48
-	Vest side								
	rom CH-1060 to CH-1160		1 .	100.00	10.34		1033.75		
	rom CH-1000 to CH-1050(Junction)		1	50.00	9.53		476.25		
	rom CH-820 to CH-1000		1	180.00	8.33		1499.76		
F	rom CH-740 to CH-820 (Junction)		1	80.00	5.48		438.67		
F	rom CH-560 to CH-740		1	180.00	5.33		958.63		
E	ast Side								
F	rom CH-1060 to CH-1160		1	100.00	9.03		903.25		
F	rom CH-1000 to CH-1050(Junction)		1	50.00	8.21	- 10	410.25		
	rom CH-820 to CH-1000		1	180.00	7.90		1422.00		
Fr	om CH-740 to CH-820 (Junction)		1	80.00	8.68		694.00		
	om CH-560 to CH-740	5311	1	180.00	5.93		1067.40		
F	r Providing Left Turn from Service Road LHS		1	880.00			880.00		
			,				150.00		
Fo	r Providing Left Turn from Service Road RHS		1)	100.00					
Fo	r Providing Left Turn from Service Road RHS		1	150.00			THE RESERVE AND ADDRESS OF THE PARTY OF THE		
Fo	r Providing Left Turn from Service Road RHS		1	150.00		Say	9933.96	19.98	198481.32

	Description of work	Unit	t No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
2.08	KSRRB 500-11. Providing and laying	Cum	+	-					
	bituminous macadam on prepared surface								
	with crushed coarse aggregates as per design				1		- 3		
	mix formula for base / binding course including loading of aggregaters with F.E. loader, hot								
	mixing of stone aggregates and bitumen in hot								
	mix plant 40 tonne capacity, transporting the		119					- STOR	
	mixed material in tipper to paver and laying	1			i				
	mixed materials with paver finisher to the required level and grade, rolling by power roller	1			200				
	to acheive the deisred density, 50 / 75 mm								
46	compacted thickness with 3.3% bitumen but								
	excluding cost of primer / tack coat with lead								
	upto 1km including cost of all materials, labour,								
	HOM of machineries complete as per specifications. MORTH Chapter 5 with 60 / 70			1		1			
	grade hitumen		2.69						
	(P.No. 172 I:No. 21.11.2 of PW.P&IWTD S.R 201	1-12)		LI SECTION AND ADDRESS OF THE PARTY OF THE P	1000000	250			
	West side								
	From CH-1060 to CH-1160			100.00	10.34	0.05	51.69	1 2 3 3 3	
	From CH-1000 to CH-1050(Junction)		1	50.00	9.53	0.05	23.81		
-	From CH-820 to CH-1000	and the second	1	180.00	8.33	0.05	74.99		
_	From CH-740 to CH-820 (Junction)		1	80.00	5.48	0.05	21.93		
-	From CH-560 to CH-740		1	180.00	5.33	0.05	47.93		
_	East Side From CH-1060 to CH-1160	-	-	100.00	0.02	0.05	45.10		
	From CH-1000 to CH-1160 From CH-1000 to CH-1050(Junction)	100	1	100.00	9.03	0.05	45.16 20.51		
_	From CH-820 to CH-1000		1	180.00	7.90	0.05	71.10		
	From CH-740 to CH-820 (Junction)		1	80.00	8.68	0.05	34.70		
	From CH-560 to CH-740	North Control	1	180.00	5.93	0.05	53.37		
. 1	For Providing Left Turn from Service Road LHS		1	880.0	00	0.05	44.00	S A SUN	
1	For Providing Left Turn from Service Road RHS		1	150.0	00	0.05	7.50		
-							496.70		
+	· · · · · · · · · · · · · · · · · · ·					Say	497.00	6490.58	3225820.25
_		The state of							
no li	COPPD MEOO 7. Desuiding and applying took	Cam							
100	KSRRB M500-7: Providing and applying tack	Sqm							
0	coat on the prepared black topped surfaces	Sqm							
8	경기가 가요 하는 사람들이 하는 이 경기를 하는데 하면 되었다면 하는데 되었다면 하는데 하는데 하는데 하는데 하는데 되었다면 하는데	Sqm							
e e e e e e e e e e e e e e e e e e e	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler atted with spray set (excluding cleaning of road aurface) including cost of all materials, labour,	Sqm 							
f s F	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per	Sqm							
f s F	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler atted with spray set (excluding cleaning of road aurface) including cost of all materials, labour,								
f s H	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5								
f s F s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1								
f s F S	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side		1	100.00	10.34		1033 75		
f s F	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160		1	100.00	10 34 9.53		1033.75		
f s f s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction)		1 1 1 1	100.00 50.00 180.00	10.34 9.53 8.33		1033.75 476.25 1499.76		
f s s () V F F F	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160		1	50.00	9.53	-	476.25		
s s s s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-820 to CH-1000		1	50.00 180.00	9.53 8.33		476.25 1499.76		
s f f s s F F F F F F F F F F F F F F F	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WIWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-560 to CH-740		1 1 1	50.00 180.00 80.00	9.53 8.33 5.48		476.25 1499.76 438.67		
(0 F F F F F F F F F F F F F F F F F F F	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-560 to CH-740 Sat Side From CH-1060 to CH-1160		1 1 1 1	50.00 180.00 80.00 180.00	9.53 8.33 5.48 5.33		476.25 1499.76 438.67 958.63		
s s s s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050(Junction) From CH-740 to CH-820 (Junction) From CH-560 to CH-740 Sat Side From CH-1060 to CH-1160 From CH-1000 to CH-1100 From CH-1000 to CH-1100 From CH-1000 to CH-1100 From CH-1000 to CH-1100		1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00	9.53 8.33 5.48 5.33 9.03 8.21		476.25 1499.76 438.67 958.63 903.25 410.25	•	
s s s s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000 From CH-560 to CH-740 From CH-1060 to CH-740 From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000		1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00	9.53 8.33 5.48 5.33 9.03 8.21 7.90		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00		
s a f f f f f f f f f f f f f f f f f f	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW, P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000 From CH-560 to CH-740 From CH-1060 to CH-1160 From CH-1060 to CH-1050(Junction) From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-740 to CH-820 (Junction)		1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00	9.53 8.33 5.48 5.33 9.03 8.21 7.90 8.68		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00		
s s f f s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WIWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1050 (Junction) From CH-1060 to CH-1050 (Junction) From CH-1060 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction)		1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00 180.00	9,53 8,33 5,48 5,33 9,03 8,21 7,90 8,68 5,93		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00 1067.40		
S	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-740 to CH-820 (Junction) From CH-1060 to CH-1160 From CH-1060 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-800 to CH-1000 From CH-740 to CH-820 (Junction) From CH-560 to CH-740		1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00	9.53 8.33 5.48 5.33 9.03 8.21 7.90 8.68		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00		
s s f f s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler litted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WIWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1050 (Junction) From CH-1060 to CH-1050 (Junction) From CH-1060 to CH-1060 From CH-10		1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00 180.00	9,53 8,33 5,48 5,33 9,03 8,21 7,90 8,68 5,93		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00 1067.40		
a a f f s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler atted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No.21.7 of PW.P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1050(Junction) From CH-1060 to CH-1050(Junction) From CH-1060 to CH-1060 From CH-1060 to CH-1060 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-560 to CH-740 From CH-1060 to CH-740 From CH-1060 to CH-1060 From CH		1 1 1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00 80.00	9,53 8,33 5,48 5,33 9,03 8,21 7,90 8,68 5,93 38,74		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00 1067.40 3099.47		
s s s s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler atted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No. 21.7 of PW.P. WTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050 (Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1050 (Junction) From CH-1060 to CH-1050 (Junction) From CH-1060 to CH-1060 From CH-1060 to C		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00 180.00 80.00	9.53 8.33 5.48 5.33 9.03 8.21 7.90 8.68 5.93 38.74		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00 1067.40 3099.47		
s s s s s s s s s s s s s s s s s s s	coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler atted with spray set (excluding cleaning of road urface) including cost of all materials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5 P.No. 172 I.No.21.7 of PW.P&IWTD SR of 2011-1 Vest side From CH-1060 to CH-1160 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-1060 to CH-1160 From CH-1060 to CH-1160 From CH-1060 to CH-1050(Junction) From CH-1060 to CH-1050(Junction) From CH-1060 to CH-1060 From CH-1060 to CH-1060 From CH-1000 to CH-1050(Junction) From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-820 to CH-1000 From CH-740 to CH-820 (Junction) From CH-560 to CH-740 From CH-1060 to CH-740 From CH-1060 to CH-1060 From CH		1 1 1 1 1 1 1 1 1 1	50.00 180.00 80.00 180.00 100.00 50.00 180.00 80.00 80.00	9,53 8,33 5,48 5,33 9,03 8,21 7,90 8,68 5,93 38,74		476.25 1499.76 438.67 958.63 903.25 410.25 1422.00 694.00 1067.40 3099.47		

Manasa Consultants

SI.	Description of work	1	Jnit	No	Lengt		Breadtl (m)	Depti (m)	h Quánt	ity	Rate in	Rs. Amo	ount in
							11.5/15/1						
	Towards Shivanagar 8th Main Road				1 100	.00	8.33		833	33		-	
_									18282	_	-	-	
-								Sa	THE RESERVE OF THE PERSON NAMED IN	-	16	.46	300923
2.10	KSRRB M500-17. Providing and laying der		um	-		-		- ST.					
	graded bituminous macadam with 100- TPH batch type HMP producing an avera- output of 75 tonnes per hour using crush aggregates of specified grading, premixed w bituminous binder at 4.0 to 4.5% by weight total mix and filler, transporting the hot mix work site, laying with a hydrostatic pay finisher with sensor control to the require grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers	120 age ned ith of to ver ed	4.11										
	achieve the desired compaction as per MoRT&	H								1			
1	specification clause No. 500.7 complete in	all				1						1	
-	respects as per specifications. Bitumen 60/ MoRT&H Specification No. 507	70			•	1				1		139	
	1'.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2		-	_		1				1			
	West side	011-12)			-					SEN LINE		Tion of the
	From CH-1060 to CH-1160	+	-	-		-							
	from CH-1000 to CH-1050(Junction)	-	-	1	100.00	-	10.34	0.05	51.6	_			
I	From CH-820 to CH-1000	-	+	1	180.00	-	9.53	0.05	23.8	-			ST. ISI
F	rom CH-740 to CH-820 (Junction)	_	1	1	80.00	-	5.48	0.05	74.99	_			
F	rom CH-560 to CH-740		1	1	180.00	-	5.33	0.05	21.93	-			
_	ast Side			1	100.00		0.00	0.05	47.93	1			
	rom CH-1060 to CH-1160			1	100.00		9.03	0.05	45.10	-			
F	rom CH-1000 to CH-1050(Junction)			1	50.00	_	8.21	0.05	45.16 20.51	-		C Dog	
	rom CH-820 to CH-1000			1	180.00	-	7.90	0.05	71.10	-			
F	rom CH-740 to CH-820 (Junction)			1	80.00	-	8.68	0.05	34.70	-			
P	rom CH-560 to CH-740			1	180.00		5.93	0.05	53.37				-
M	attery limit towards Basaveshwara nagar 1st ain Road Junction	SX		1	80.00	3	8.74	0.05	154.97				
B	attery limit towards Manjunathnagar Road		+	1	40.00	3	1.69	0.05	63.37				
B	attery Limit		+	-			_	-					
To	wards Majestic			1	100.00	19	9.09	0.05	95.47				
To	wards Shivanagar 1st Main Road			1	- 100.00		1.31	0.05	56.57				
	wards Prakashnagar			1	100.00		1.38	0.05	56.90	_	-		-
10	wards Shivanagar 8th Main Road			1	100.00	8	3.33	0.05	41.67				-
-			1						914.14		-		-
-			-		De la			Say	914.50		8856.14	80989	40.40
at in fitte sur HO	RRB M500-7: Providing and applying tack at on the prepared black topped surfaces 2.5kg per 10 sqm. heating bitumen in boilered with spray set (excluding cleaning of road face) including cost of all materials, labour, M of machineries complete as percifications. MORTH Chapter 5	Sqm											
(P.N Wes	lo.172 I.No.21.7 of PW,P&IWTD SR of 2011-1: t side	2) ·										-	
	n CH-1060 to CH-1160		-	+	100 0		-					~	
ror	n CH-1000 to CH-1050(Junction)			1	100.00	10.3			1033.75				
, LOI	n CH-820 to CH-1000			-	50.00	9.5	-		476.25				
ror	n CH-740 to CH-820 (Junction)			-	80.00	5.4	-		1499.76				
10000	n CH-560 to CH-740			1	180.00	5.3	-		958.63				
	Side					-			350.00				-
Cast	CITY												
Cast 'ron	CH-1060 to CH-1160		1	-	100.00	9.0	13		903.25			~	
ron ron	CH-1060 to CH-1160 CH-1000 to CH-1050(Junction) CH-820 to CH-1000		1		100.00 50.00 180.00	9.0 8.2	-		903.25 410.25			~	

Sl. No.	Description of work	Unit.	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in R
	From CH-560 to CH-740		1	180.00	5.93		1067.40		
	Battery limit towards Basaveshwara nagar 1st	5.5	1	80.00			3099.47		
	Main Road Junction							1-1-1	
	Battery limit towards Manjunathnagar Road		- 1	40.00	31.69		- 1267.40		
	Battery Limit	35-10					L. Control		
	Towards Majestic	-Commercial	1	100.00	19.09		1909.33		
-	Towards Shivanagar 1st Main Road		1	100.00	11.31		1131.33		
	Towards Prakashnagar	-	1	100.00	11.38				
	Towards Shivanagar 8th Main Road		1	100.00	8.33		- 833.33		
14476	Cross Road		1	50.00	5.00		- 250.00		
	Ch: 1240		1	50.00	4.55		- 230.00		
82.163	Ch: 1160		1-	50.00	5.92		- 296.00		
	Ch: 1140		1	. 50.00	8.00		400.00		
	Ch. 980 Ch. 940		1	. 50.00	5.00		250.00		
	Ch: 940		1	50.00	4.58		229.00		
-			1	50.00	4.11		205.25		
	Ch: 880		1	50.00	5.16		258.00		J. T. CH. TALLA
	Ch: 860 Ch: 820		1	50.00	5.45		272.50		
	Ch: 740		1	50.00	5.91		295.50		
	Ch: 740		1	50.00	5.75				
	Cit. 700		-	00.00	0.70		21254.07	1	
-			-			Say		16.46	349823.8
						· Day	21201.00	10.40	04002010
	120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP								
	P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 20	11-12)			101-11				
_	West side			100.00	10.01	. 0.01	47.05		
_	From CH-1060 to CH-1160		1	100.00	10.34	0.04	41.35		
_	From CH-1000 to CH-1050(Junction)	-	1	50.00 180.00	9.53	0.04	19.05 59.99		
	From CH-820 to CH-1000		1	80.00	5,48	0.04	17.55		
	From CH-740 to CH-820 (Junction)	-	1	180.00	5.33	0.04	38.35		
	From CH-560 to CH-740 East Side			100.00	0.00	0.04	00.00		
-	From CH-1060 to CH-1160		1	100.00	9.03	0.04	36.13		
_	From CH-1000 to CH-1100 From CH-1000 to CH-1050(Junction)		1	50.00	8.21	0.04	16.41		
	From CH-820 to CH-1000		1	180.00	7.90	0.04	56.88	-75.00	10 May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
_	From CH-740 to CH-820 (Junction)		1	80.00	8.68	0.04	27.76		
	From CH-560 to CH-740		1	180.00	5.93	0.04	42.70		
1	Battery limit towards Basaveshwara nagar 1st Main Road Junction		1	80.00	38.74	0.04	123.98		
	Battery limit towards Manjunathnagar Road		1	40.00	31.69	0.04	50.70		
-	Battery Limit					0.04			1
	Towards Majestic		1	100.00	19.09	0.04	76.37		
1			1	100.00	11.31	0.04	45.25		
	Cowards Shivanagar 1st Main Road								The second secon
1	Cowards Shivanagar 1st Main Road Cowards Prakashnagar		1	100.00	11.38	0.04	45.52		
7			1 . 1	100.00	11.38 8.33	0.04	45.52 33.33		\sim

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount
_	Ch: 1240		1	50.00	5.00	0.04	10.00		r il osse
	Ch: 1160				-		9.10		
	Ch: 1140		1	50.00	-	0.04	11.84		
	Ch: 980		1	50.00	-	0.04	16.00	1	
	Ch: 940		1	50.00		0.04	10.00	The second second second second	
	Ch: 900	- U.S	1	50.00	4.58	0.04	9.16		
	Ch: 880		1	50.00	4.11	0.04	8.21		
	Ch: 860		', 1	50.00	5.16	0.04	10.32		
	Ch: 820 · .	No.	1	50.00		0.04	10.90		
	Ch: 740 .		- 1	50.00	5.75	0.04	11.50		
_	Ch: 700 ·		1	50.00	5.75	0.04	11.50		
							849.84	010	-
						Say	850.00	11208.63	95273
.13	Providing and fixing Pre cast solid cement	Nos.							
	concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing								
	cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift,								
_	transportation etc., complete. (P.No.28, I.No.5.30 of PW, P&IWTD SR 2011-12)					7			
-	Median								
1	Battery limit towards Basaveshwara nagar 1st Main Road Junction		2	80,00		- 1	356.00		
	Battery limit towards Manjunathnagar Road		2	40.00			178.00		
	Towards Majestic		2	70.00		- 2	311.00		TVA - FILE
_	For Footpath								
_	Ch 520 to Ch 1240		_						
_	West Side		1	633.30	• ••		1407.00		A PETEL
_	East Side		1	658.46			1463.00		
	Ch 800 to Ch 840		1	30.00			67.00		
	Ch 1220 to Ch 1060 West Side Ch 1220 to Ch 1060 East Side		1	250.00			556.00		
			1	275.00			611.00		
1	Ch 1000 to Ch 860 West Side	-	1	160.00			356.00		
+		-	-			Say	5305.00	248.40	1317
1						Day	0303.00	240.40	1317
t) a si	SRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in proved shades on new plastered concrete surfaces, with materials, labour complete as per pecifications. MORTH Chapter 8	Sqm							
	P.No. 191, I.No. 24.1 of PW,P&IWTD SR 2011-12) or Kerb Painting							1	
_	edian			181 C. S. P.		-			
1	attery limit towards Basaveshwara nagar 1st ain Road Junction		2	80.00		0.45	72.00		
B	attery limit towards Manjunathnagar Road		2	40.00		0.45	36.00		
	owards Majestic		2	70.00		0.45	63.00		
-	or Footpath								
100	h 520 to Ch 1240		-						
-	est Side		1	633.30	-	0.45	284.99		
	ast Side		1	658.46		0.45	296.31	Seattle 18	
	1800 to Ch 840		1	30.00		0.45	13.50		
1	1 1220 to Ch 1060 West Side		1	250.00		0.45	112.50		
	1 1220 to Ch 1060 East Side 1 1000 to Ch 860 West Side	-	1	275.00 160.00	- :	0.45	123.75 72.00		
1	1 1000 to Cit ood west olde		1	100.00		0.40	1074.04		
			-			Sav	1074.50	48.49	52 1 04.6
		-	-			Jay		70.43	02 104.0

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in R
	KSRS M800 - 13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.								
	(P.No.193, I.No.24.15 of PW,P&IWTD 2011-12)								
	Edge Lane Marking line								ID MANY PLEASE
	Ch 560 to Ch 1160	SALE	4	600.00	0.15		360.00		
BLA	Battery Limit Basaveshwaranagara Ch 1160		4	80.00	0.15		48.00		
_	Battery Limit · Manjunathnagar Ch 520 to		4	40.00	0.15		24.00		
	Towards Majestic		4	100.00	0.15		60.00		
_	Towards Shivanagar 1st Main Road		2	100.00	0.15		30.00		
-	Towards Prakashnagar	•	. 2	100.00	0.15		30.00		
_	Towards Shivanagar oth Iviain Aoad		2	100.00	0.15		30.00		
_	Center line								
_	Battery Limit · Basaveshwaranagara Ch 1160		2	80.00	0.15		24.00		
_	Battery Limit - Manjunathnagar Ch 520 to		2	40.00	0.15		12.00	1.	
	Towards Majestic		2	100.00	0.15		30.00		
	Towards Shivanagar 1st Main Road		2	100.00	0.15		30.00		
	Towards Prakashnagar		1	100.00	0.15		15.00		
	Towards Shivanagar 8th Main Road		1	100.00	0.15		15.00		
	Pedestrian Crossing								
	Stop Line Marking								
-	At Junction From CH-1000 to CH-1060 (Junction)	2.000	1	6.35	0.20		1.27		
- 1	From CH-1000 to CH-1060 (Junetion)	-	1	7.00	0.20		1.40		
-			1	9.90	0.20		1.98		
-		-	1	8.50	0.20		1.70		
1	From Ch-740 to Ch 800 (Junction)		2	5.50	0.20	-	2.20		
- 1	Tolii CIP 740 to Cil 860 (Falletion)		1	5.00	0.20		1.00		
1			1	6.50	0.20		1.30		
10	Cross Lines 0.50m Wide	54	54	3.00	0.50		81.38		
-	Direction Arrows		20	5.00	0.90		90.00		
							890.23	51 - 8 - 1	7-10-10-10-1
						Say	890.50	429.84	382772.52
s r fi o a b B	to the control of the	Nos.							
a	P.No. 197&198, I.No.24.41 of PW,P&IWTD SR 20	11-12)						Error sorter	
-	long Edge Line		1310				1310.00		
	ane Marking Line	1	281			A	281.00		
II.	TAKE SEASON BUTTON							The second secon	
L							1591.00		

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SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in R
2.17	KSRRB M800-15. Road Delinators: Supplying and Installation of delineators (road way indicators, hazard markers, object markers), 80 100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC - 79 and the drawings complete as per specifications. MORTH Specification No. 805.								
	(P.No.194, I.No.24.19 of PW,P&IWTD SR 2011-1	2)	24		-	-	24		
		100					24	365.04	8760.96
	KSRRB M800-20. Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series) 100 mm x 50mm: Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50mm, 1.2 metres high above ground, 2 m centre to centre, complete as per approved drawings as per specifications. MORTH Specification No. 808.	Rmt							
	(P.No.194&195, I'No.24.24 of PW,P&IWTD SR 2	011-12)					134		
	Ch 520 to Ch 1240		2	720.00			1440.00		
-	Towards Majestic		2	• 100.00			200.00		
1	Towards Shivanagar 1st Main Road		2	100.00	**		200.00		
-	Towards Prakashnagar		2	100.00		-	200.00		
_	Towards Shivanagar 8th Main Road	-	2	100.00			200.00		
	deduction for Cross Roads								
_	Towards Majestic	-	-1	19.09			-19.09		
_	Towards Shivanagar 1st Main Road	-	-1	11.31			-11.31	2	1376
_	Fowards Prakashnagar		-1	11.38			-11.38	Ne il	
_	Ch: 1240 Ch: 1160		-1	6.50			-6.50		
	Ch: 1140	-	-1	5.00			-5.00		
_	Ch: 980	-+	-1	8.00	**	*********	-5.92		
-	Ch: 940	-	-1	6.00		**	-8.00		
-	Ch: 900	200	-1	5.00			-5.00		
_	Ch: 820	_	-1	6.00			-6.00		
							2155.79		
							2156.00	1246.32	2687065.92
Sin in fin sin sin sin sin sin sin sin sin sin s	ASRRB M800-2. Retro-Reflectorised Traffic Signs: Providing and fixing of Retro- effectorised cautionary, mandatory, informatory sign as per IRC:67 made of high intensity grade sheeting vide clause 800.1.3, in the standard of the standard	Each							
	P.No. 191, I.No. 24.2 of PW, P&IWTD SR 2011-12)		-						
	Ocm equilateral triangle	-	8	-			12	2924.64	35095.68
-	Ocm circular		13				16		34922.88
-	Och x 45cm rectangular .	-	5				5	2182.68	12517.2
1000	Ocm high octagon		8		-		8	3632.04	29056.32
	and the state of t	-	1					5552.04	
- Table 1									

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Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	Providing and fixing Gantry including cutting, fabrication etc., complete as per specification and detailed drawing					•			
	(Detail Estimation is enclosed)		. 8						
	Over Head Gantry						3	1587588.816	4762766.448
									39563735.66
				•					64.34
		• • •						TOTAL	39563800.00

Manasa Consultants

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Over Head & Cantilever Gantry Detailed Estimation

SI. No	Description of work	Unit.	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount Rs.
A.	OVER HEAD GANTRY OF SPAN 30M				1 ::				-
2.20,1	KSRRB M2100-2.1 Earthwork in excavation for foundation of structures as per drawing and technical specifications. Including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering charges)								
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011	-12)							
	Gantry	1-/	3	. 3.90	3.90	1.80	82.13		
				. 0.00	0.00	Say	82.50	45.08	2710
						Jay	02.00	40.00	3719.
2.20.2	KSRRB M2100-13. Plain Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100	Cum-							
	(P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-1	2)				1			
	Cantry		3	3.90	3.90	0.10	4.56		
				567 50		Say	5.00	3724.92	18624.6
	KSRRB M2100-14 Reinforced cement concrete M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 31ts confirming to IS9103-1999 Reaffirmed-2008, in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No.1500,1700 & 2100								
	P.No.222, I.No.27.25 of PW, P&IWTD SR 2011-12	2)							
- (Column footing		2	3.70	3.70	0.60	16.43		
						Say		4401.00	72616.50
g 0 s	KSRRB 2200-5.9. Design mix M20 with OPC (ement @ 320kgs, with 20mm and down size traded granite metal coarse aggregates @ 69cum and fine aggregates @ 0.46cum, with uperplastisiser @ 3lts confirming to IS9103-999 Reaffirmed-2008 i) Upto 5 m height	Cum .							
(I	P.No.227, I.No.28.7.9 of PW, P& IWTD SR 2011-1	2)					-		
	olumn upto GL		2	2.50	2.50	1.10	13.75		-
			-	-		Say	-	931.28	9 037.92

Sl. No.	Description of work	Unit	No.	Lengt (m)		Breadth (m)	Depti (m)	1 Quanti	ty Rate in Rs.	Amount Rs.
2.20.5	KSRRB M2200 - 6. Supplying, fitting an placing TMT bar reinforcement in substructure complete as per drawing an technical specifications complete as pespecifications. MORTH Specification No. 1600 & 2200	d .								
The same	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-	12)			+		*	1		
	Gantry	1			+			-		
	Mat Reinforcement	-			+	Unit	Wt/Rm	+	-	
	Main bar 25 nos 12mm dia	3	25	4.4	40		0.8		0	
	Distribution bar 25 nos 12mm dia	3	25	4.4	-		0.8		THE REAL PROPERTY.	
-	Column pedestal						0.0	255.1	.	
	Main bar 16 nos 16mm dia	3	16	4.5	50		1.58	341.2	8	
	Stirrups 8mm dia bar 200mm c/c				I				The second	
	Vertical	3	. 27	7.4	10		0.394	236.1	6	and the second
	Horizontal	3	9	7.4	10		0.394			
	Diagonal	3	. 9	6.7	0		0.394		_	
	Add for C. W					S	ub Total	1314.8	4	
-	Add 5% for Wastage				1			65.7	1	
					-		Total		3	
-					+	Qt	y in MT			
20.6	Supplying, fabricating; erecting, and fixing in	MT			-		Say	1.50	68274.71	102412.
to real to the rea	position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams, rails, ees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straighting, cutting, abricating, welding, bending to slope fixing to osition, welding to insert plate embeded in concrete and inclusive of 2coats of enamel aint over one coat of metal primer. The rate moted is to include the cost of all materials, abour, tools, tackets, cranes, devices and lants, wastage etc., as per specifications and rawings complete. Including cost of bolts, ats, washers, clamps, welding, electrodes, and mections required for the work. Rate to clude shims and packing peices etc., complete ith all lead and lifts as directed by the ngineer-in-charge.						2000		:	, 1 : 8
Ga	antry				-	_				
Str	ructural steel on pedestal			20-90		Unit W	r/Rmt			
M	S Base plate 20mm thick				ang back					
3x2	2.5mx2.5mx0.02mx7850kg/cum = 2943.75					-+		2943.75		
An	chor bolt 25mm dia 16 nos 3.42 kg/No		3	16.00			3.42	164.16		
V	ffner plate 12mm thick 4 nos per each pedestal rtical Plate			VIII S						
										9.5
	4X2.3mx0.4mx0.012mx7850kg/cum = ffners				-			1039.97		and the same of
-	6X0.1mx0.3mx0.012mx7850kg/cum =	-	-					STANS I	Later 1	
Ver	tical structural sections					**		135.65		
	1 100x100x8mm @ 12.1kg/m	3 .	1	9.00			0.15	100		
Hor	rizontals	-	4	8.69	-		2.10	1261.79	-	
	. 65x65x6mm @5.8kg/m	3	16	2.00			5 90	EE0 00		
Diag	gonal sections	-	10	2.00			5.80	556.80		
ISA	75x75x6mm @ 6.8kg/m	3	20	2.65			6.80	1001 20	-	
Hor	izontal structural sections			2.00	1119		0.00	1081.20	-	_
ISA	75x75x6mm@6.8kg/m	1	2	34.00			6.80	462.40		
CONTRACTOR OF THE PARTY OF THE	C 105 05 05	-	-				-	102.40		
ISM	C 125x65x65mm@13.1kg/mi .:	1 1.	2	34.00			3.10	890.80		

	No. Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amou
	ISA 65x65x6mm @5.8kg/m	2	17	1.00		5.80	197.20	0	
	Horizontal	-	1				4		
SSCHOOL S	ISA 65x65x6mm @5.8kg/m Diagonal sections	2	. 17	: 2.00		5.80	394.40	0	
	Front & Back	-	-	0.04					
	Botom & Top	2 2	34			6.80	The second second	The Personal Property lies and	
	Covering of truss	2		2.24		6.80	1035.78	-	
	Ms Plate 5mm thick @ 39.2 kg/Sqm	-						-	-
So/=V	Тор	1	34	2.00		39.20	2665.60		-
	Gusset Plate					00.20	2000.00		
	A-type Vertical Joint						-		
	3x20X0.3mx0.4mx0.008mx7850kg/cum =		-				452.16		
	B-type Top Horizontal Joint						102.10		
	2x7X0.15mx0.15mx0.008mx7850kg/cum =			1000			19.78		
	C-type								
	2x3X0.30mx0.30mx0.008mx7850kg/cum =			-		-	33.91	100	
	Sides								
	2x17X0.30mx0.30mx0.008mx7850kg/cum =						197.17		-
				T .		Total	14568.29	- 25 Tes.	
					Qt	ty in MT	14.57		
	1					Say	15.00	61000.00	9150
20.7	KSRRBM800-5.2. Providing and Erecting	Sqm							
	overhead signs with a corrosion resistant 2mm thick aluminium alloy sheet reflectorised with high intensity retro-reflective sheeting of encapsulated lense type with vertical & lateral clearance given in clause 800.2.2 and 800.2.3 and installed as per cluse 800.2.7 over a designed support system of aluminium alloy or galvanised steel trestles and trusses of sections and type as per structural design requirements and approved plans complete as per specifications. B.Aluminium Alloy Plate for Over Head Sign MORTH Specification No. 802 (P.No.192, I.No.24.6 of PW, P&IWTD SR 2011-12 Covering of truss								
	Top KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Sqm	2	34.00		1.00	68.00	5648.40 3	384091
	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1						68.00	5648.40 3	38409)
	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1 Gantry		. 12	2.00		8.70	208.80	5648.40 3	38409
	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1		12.	2.00		8.70 '1.00	68.00 - 208.80 60.00	5648.40 3	38409
	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1 Gantry Top Truss		. 12	2.00		8.70	208.80	5648.40 3	38409)
	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1 Gantry Top Truss Covering Truss		12.	2.00 30.00 30.00		8.70 *1.09 2.00	208.80 60.00 120.00	5648.40 3	38409
	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1 Gantry Top Truss Covering Truss Ms Plate 5mm thick @ 39.2 kg/Sqm		12.	2.00		8.70 '1.00	208.80 60.00 120.00		
9 H ee pp s s c c m	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1) Gantry Top Truss Covering Truss Ms Plate 5mm thick @ 39.2 kg/Sqm		12.	2.00 30.00 30.00	· · · · · · · · · · · · · · · · · · ·	8.70 *1.09 2.00	208.80 60.00 120.00		
9 H ee pp s c c m c c c	KSRB 15.18.1: Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. (P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-1 Gantry Top Truss Covering Truss Ms Plate 5mm thick @ 39.2 kg/Sqm KSRB 15.18.2: Providing and applying enamel metal paint two coats (Excluding priming coat) over new steel or other metal purface brushing to give an even shade after leaning oil, grease, dirt and other foreign matter, including cost of materials, labour,	2) Sqm	12.	2.00 30.00 30.00 30.00		8.70 *1.09 2.00	208.80 60.00 120.00		Ø663.4

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	KSRB 2.4: Refilling available excavated earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting earth deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per				£1				
	specifications.						61.00	58.32	3557.52
2.20.11	(P.No.6, I.No.2.11 of PW.P&IWTD SR 2011-12) KSRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH Chapter 1	Cum		•					
	conveying up to 20km by mechanical means						21.50	123,34	2651.81
	(P.No.141&147 of PW,P&IWTD S.R 2011-12)					Tota	l Cost in Ea		1587588.82

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Drain Works & Construction of Compound

No.	Description of work	Un	it No		The state of the s	th Dep	th Quanti		A STANDARD COMPANY
3.00	Cross Drainages, Longitudinal Drainage & Re-C	Constru	ction	of Compa	1 (114)	(111)		Rs.	Rs.
3a)	Culverts Across the Roads	T	T	Compo	Ind				
3.01	KSRRB M2100-2.1 Earthwork in excavation	6-10	-	-					E. 27 . 12
	foundation of structures as per drawing and techn specifications. Including setting out, construction shoring and bracing, removal of stumps and ot deleterious matter, dressing of sides and bottom a backfilling with approved material complete as specifications, B. Mechanical Means (i) Depth upto a MORTH Specification No. 304 (Add 10% dewatericharges)	of her and per	n						
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-12)								
	8m Length								
	CH- 1160, 940, 900, 880, 860, 740, 680		1						
	10m Length	. 7		1 8.0	1.3	0 1.60	116.48		The second
			1.			100			
-	CH- 1140, 1240, 980, 820	4		1 10.00	1.3	1.60	83.20		
	15m Length			1	1	1.00	03.20		
_	CH- 780	1		1 15.00	1.30	1.60	21.00		
	23m Length			10.00	1.00	1.60	31.20		
-	CH- 1040	1		23.00	1.30	1.00			
-				20.00	1.50	1.60	27102		
						-	278.72		
	SRRB M2100-13. Plain Cement Concrete M15 wit		-			Say	279.00	40.99	11435.09
fir	PC cement @ 240kgs, with 40mm and down size added granite metal coarse aggregates @ 0.84cum and ne aggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH perifferation No. 1500, 1500, 2000, 2000.	d							
für as Sp (P	nated grantle metal coarse aggregates @ 0.84cum and aggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) in Length	d		:					
fir as Sp (P. 8n	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680	d e H		8.00	. 120				
fir as Sp (P. 8n CH	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length H. 1160, 940, 900, 880, 860, 740, 680 m. Length m. Length	d	1	8.00	· 1.30	0.10	7.28		
fir as Sp (P. 8n CH 10n CH	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 Length 1-1140, 1240, 980, 820	d e H 	1		7				
fir as Sp (P. 8n CF 10n CH 15n	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 m Length 1-1140, 1240, 980, 820 m Length 1-1140, 1240, 980, 820 m Length	d e H	1	8.00		0.10	7.28		
fir as Sp (P. 8n CF 10n CH 15n CH	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 Length 1-1140, 1240, 980, 820 Length 1-1780	d e H 		10.00	1.30	0.10	5.20		
fir as Sp (P. 8n CH 10n CH 23r	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 m Length 1-1140, 1240, 980, 820 m Length 1-780 m Length 1-780 m Length	d e H 	1		7				
fir as Sp (P. 8n CH 10n CH 23r	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 Length 1-1140, 1240, 980, 820 Length 1-1780	d e H 	1	10.00	1.30	0.10	5.20		
fir as Sp (P. 8n CH 10n CH 23r	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 m Length 1-1140, 1240, 980, 820 m Length 1-780 m Length 1-780 m Length	d e H		10.00	1.30	0.10	5.20 1.95 2.99		
fir as Sp (P 8n CH 15n CH 23n CH	nated grantle metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 Length 1-1140, 1240, 980, 820 Length 1-780 Length 1-780 Length 1-1040	d e H	1	10.00	1.30	0.10	5.20 1.95 2.99 17.42	794.00	25100.00
First ass Sp (P) 8nn CH 10n CH 15n CH 23r CH 23r CH 15s	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal segregates @ 0.68cum in Open foundation complete per Drawing and Technical Specifications. MORTH decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) In Length 1-1160, 940, 900, 880, 860, 740, 680 Im Length 1-1140, 1240, 980, 820 Im Length 1-1040 RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal rise aggregates @ 0.68cum and fine aggregates @ ccum, with super plastisiser @ 3lts confirming to 103-1999 Reaffirmed-2008 i) Upto 5 m height	d e H	1	10.00	1.30	0.10	5.20 1.95 2.99 17.42	724.92	65186.10
First September 10 (P. No. 151)	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal sign with superplastisiser @ 3lts confirming to 103-1999 Reaffirmed-2008 i) Upto 5 m height	d e H	1	10.00	1.30	0.10	5.20 1.95 2.99 17.42	724.92	55186.10
First September 10 (P. No. 151)	nated grantic metal coarse aggregates @ 0.84cum and eaggregates @ 0.56cum in Open foundation complete per Drawing and Technical Specifications. MORTH Decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) Length 1-1160, 940, 900, 880, 860, 740, 680 Length 1-1140, 1240, 980, 820 Length 1-780 Length 1-780 Length 1-1040 RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded grante metal ree aggregates @ 0.68cum and fine aggregates @ coum, with super plastisiser @ 3lts confirming to grant the sign of t	d e H	1	10.00	1.30	0.10	5.20 1.95 2.99 17.42	724.92	65186.10
First September 10 (P. N. Bott 8 m I 18 m I	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal sign with super plastisiser @ 31s confirming to 103-1999 Reaffirmed-2008 i) Upto 5 m height RRB 220, I.No.27.18 of PW, P&IWTD SR 2011-12) RRB 220, I.No.27.18 of PW, P&IWTD SR 2011-12) RRB 220, I.No.27.18 of PW, P&IWTD SR 2011-12)	d e H	1	10.00	1.30	0.10	5.20 1.95 2.99 17.42	724.92	65186.10
Firm ass Sp (P. 8nn CH- 10n CH- 15n CH	RRB 2200-5.18. De sign mix M35 with OPC cement a large aggregates @ 0.68cum and down size graded grante metal sign metal specifications. MORTH opecification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) Length 1.1160, 940, 900, 880, 860, 740, 680 II. Length 1.1140, 1240, 980, 820 III. Length 1.1040 RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded grante metal rise aggregates @ 0.68cum and fine aggregates @ cum, with super plastisiser @ 3lts confirming to 103-1999 Reaffirmed-2008 i) Upto 5 m height 1.0.228, I.No.28.7.18 of PW. P& IWTD SR 2011-12) tom slab Length 1.160, 940, 900, 880, 860, 740, 680	d e H	1	10.00	1.30	0.10 0.10 0.10 Say	5.20 1.95 2.99 17.42 17.50 3	724.92	65186.10
First Firs	RRB 2200-5.18. De sign mix M35 with OPC cement aggregates @ 0.68cum and Length - 1040 - 1040 RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal size aggregates @ 0.68cum and fine aggregates @ 103-1999 Reaffirmed-2008 i) Upto 5 m height blooms lab Length - 1040 RRB 2204-5.18 of PW, P&IWTD SR 2011-12) RRB 2204-5.18 De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal size aggregates @ 0.68cum and fine aggregates @ 103-1999 Reaffirmed-2008 i) Upto 5 m height constant of the size of the	d e H	1	10.00	1.30	0.10	5.20 1.95 2.99 17.42	724.92	55186.10
Firm as Sp (P. 8nn CH- 10nn CH	RRB 2200-5.18. De sign mix M35 with OPC cement aggregates @ 0.68cum and down size graded grante metal for metal specifications. MORTH opecification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) Length 1.1160, 940, 900, 880, 860, 740, 680 II. Length 1.1140, 1240, 980, 820 III. Length 1.1040 RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded grante metal rise aggregates @ 0.68cum and fine aggregates @ cicum, with super plastisiser @ 3lts confirming to 103-1999 Reaffirmed-2008 i) Upto 5 m height 1.0.228, I.No.28.7.18 of PW. P& IWTD SR 2011-12) 1.1160, 940, 900, 880, 860, 740, 680 Length 1.1160, 940, 900, 880, 860, 740, 680 Length 1.1140, 1240, 980, 820	d e H	1	10.00	1.30	0.10 0.10 0.10 Say	5.20 1.95 2.99 17.42 17.50 3	724.92	55186.10
First Firs	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal for meanth is pecification. Box 100 m. 100	d e H	1	10.00	1.30	0.10 0.10 0.10 Say	5.20 1.95 2.99 17.42 17.50 3	724.92	55186.10
State	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal focus metals. Because aggregates @ 0.84cum and the aggregates @ 0.86cum in Open foundation complete per Drawing and Technical Specifications. MORTH decification No. 1500, 1700 & 2100 No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) In Length 1-1160, 940, 900, 880, 860, 740, 680 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	d e H	1	10.00	1.30 1.30 1.30	0.10 0.10 0.10 Say	5.20 1.95 2.99 17.42 17.50 3	724.92	55186.10
Sam CH CH CH CH CH CH CH C	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal fee aggregates @ 0.68cum in Open foundation complete per Drawing and Technical Specifications. MORTH per Drawing and Technical Specifications. MORTH per Drawing and Te	d e H	1	10.00	1.30	0.10 0.10 0.10 Say	5.20 1.95 2.99 17.42 17.50 3	724.92	55186.10
State	RRB 2200-5.18. De sign mix M35 with OPC cement @ kgs, with 20mm and down size graded granite metal fee aggregates @ 0.68cum in Open foundation complete per Drawing and Technical Specifications. MORTH per Drawing and Technical Specifications. MORTH per Drawing and Te	d e H	1	10.00	1.30 1.30 1.30	0.10 0.10 0.10 Say	5.20 1.95 2.99 17.42 17.50 3	724.92	

No		U	nit	No.	Lengtl (m)	Bread (m)		h Quant	ity Rate	ALC: NO THE RESERVE OF THE PARTY OF THE PART
	Sidewalls		-	•		-			103.	113.
	8m Length		1		-			-		
	CH- 1160, 940, 900, 880, 860, 740, 680		7	2	8.0	0.	25 10	0 00	-	
	10m Length		1		0.0	0	25 1.0	0 28	00	
	CH- 1140, 1240, 980, 820		4	2	10.00	0.5	25 10	0 00	0.0	
	15m Length				10.0	1-0	25 1.0	0 20.	00	
	CH- 780		1	2	15.00	0.6	200			
	23m Length		1	-	10.00	0.5	5 1.00	7.	50	
	CH- 1040		1	2	23.00	0.2	E 100	-		
			+		20.00	0,2	1.00			
							N O.	67.0		
	, as an experience of the second seco						Net Qts	-		
		-	-	-			Say	104.0	0 5489.6	4 570922
	KSRRB M2300-7.1. Furnishing and Placing Reinforce Prestressed cement concrete in super-structure as parawing and Technical Specification complete as parawing and Technical Specification complete as parawing and Technical Specification complete as parawing and Technical Specification of the Specificatio	er ix ed ne ts	m				. :			
	P. N.o 236, INo 29.13.1 of PW, P & IWTD SR 2011-12)	-	-					Mr.		
1	Covering slab	-	-						Mark Mark	
	m Length	-	-						Call W	
	CH- 1160, 940, 900, 880, 860, 740, 680		-							
1	0m Length	-	7	1	8.00	1.10	0.25	15.40		
	H- 1140, 1240, 980, 820		-							14.3
		-	1	1	10.00	1.10	0.25	11.00	The second	
	H- 780	-	1						A period of	
	3m Length]		i	15.00	1.10	0.25	4.13	855 65	2011
	H- 1040				1	5 18 2 18	100			
1		1		. 1 .	23.00	1.10	0.25	: 6.33		
1								36.85		77.3
1		-					Say	37.00	5920.56	219060.7
KS	SRRB M2200 - 6. Supplying, fitting and placing TMT	199						31/		
per	r reinforcement in sub - structure complete as r drawing and technical specifications complete as per ecifications. MORTH Specification No. 1600 & 2200	The second second						:		
(P.	No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)		-	-				PS		
120	Okgs per Cum for item no. 3.03+3.04		-	-						
				-				16.92		
			-	-			Say	17.00	68274.71	1160670.00
thro 1V:2 and spec	ifications. MORTH Specification No. 2706 & 2200	Nos./ mtr								
P.No	229, INO 28.10 of PW P&IWTD S P 2011 19	-		-						
om I	Length		-	-	-+-	-		.		
UH-	1160, 940, 900, 880, 860, 740, 680		1:	2						
tum	Length							12		
H-	1140, 1240, 980, 820	-		1						
	Length	+		-		1-		9		
H- 7			1			-				_
S 2773	Length		-					4		
	040	-	6		-					
H- 1		-	- 0					6		
							Say	31	148.23	4595.13

Sl. No.	Description of work	Unit	No	. Len	-	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
3.07	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No KBS 2.9	n d								
	(Pg.No. 6, I.No. 2.10 of PW, P & IWTD S.R 2011-12)									
	8m Length .							10-00		
	CH- 1160, 940, 900, 880, 860, 740, 680	7		2 .8	3.00	0.10	1.50	16.80		
	10m Length	-		+	-					
	CH- 1140, 1240, 980, 820	4		2 10	0.00	0.10	1.50	12.00		
	1210, 1210, 000, 020					0.20		12.00		The second second
	15m Length					19017				
	CH- 780	1		2 15	.00	0.10	1.50	4.50	MATERIA SA	
	22			-						
	23m Length CH- 1040	1		2 23	.00	0.10	. 1.50			
	C11- 1040	1		2 23	.00	0.10	1.50	6.90 40.20		
				1			Say	40.50	97.20	3936.60
	KSRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1									
-	Conveying up to 20km by Mechanical means.			311612	+					
	(P. No.141&147 of PW, P.& IWTD S.R 2011-12)				+					
	Qnty same as item no 3.01, 3.07							238.50		Tares and
-			America				Say	238.50	123.34	29416.59
09 7	Miscellaneous & Rounding off .	• •		-	-					2065222.79
.00	Ansternational & Rounding off			-	+				TOTAL	2066000.00
3b) (Construction of Road Side Drain and Footpath	-			-	-			TOTAL	2000000
10 F f s s d d b s M	KSRRB M2100-2.1 Earthwork in excavation for boundation of structures as per drawing and technical pecifications. Including setting out, construction of horing and bracing, removal of stumps and other leleterious matter, dressing of sides and bottom and ackfilling with approved material complete as per pecifications, B. Mechanical Means (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering harges)	Cum								
(I	P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-12)				1	40.44				
F	rom CH-1260 to CH-520 hivnagar 1st Main		2	740.0	_	1480.00		- A -		
	hivnagar 1st Main		2	100.0		200.00	-			
	owards Majestic	1	2	100.0	-	200.00				
To	owards Prakash Nagar		2	100.0	-	200.00				
Cı	ross Roads	11	. 2	50.0	0	1100.00				
-						3380.00				
De	Total length of Drain	_			+	3380.00				
	ross Road	-	1		+	134.00 53.00				
			1			3193.00				
	ad side drain		1	3193.00	-	1.10	1.35	4741.61	3	
	r Catch Drain		228	0.70	-	0.80	0.80	102.14		
Fo	r Rain water Hervesting	1	64	. 2.00		0.50	2.05	130.91		
1					1.			4974.66		
					1		Say 4	1975.00 4	0.99	203905.35

No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantit	Rate in	Amount in
3.11	KSRRB M2100-13. Plain Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100	e d							
	(P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12)	1.							
	Road side drain		1	3193:00	. 1.10	0.15	526.88	5	
	For Catch Drain		. 228	0.70	• 0.80	0.15	19.18	5	-
	For Rain water Harvesting	1	64	2.00	0.50	0.15	9.58		
	· · · · · · · · · · · · · · · · · · ·	-					555.58		
		-				Say	556.00	3724.92	2071055.52
3.12	KSRRB 2200-5.9. Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008 i) Upto 5 m height						,		
	(P.No.227, I.No.28.7.9 of PW, P& IWTD SR 2011-12)		•						
	Bottom slab						1		
	Road side drain		1	3193.00	0.90	0.15	431.06	-	
	For Catch Drain		228	0.60	0.70	0.20	19.15		
-	For Rain water Hervesting	1	64	2.00	0.40	0.10	5.11		
	Sidewalls						455.32		
	Road side drain	2	1	3193.00	0.15	1.00	957.90		
	For Catch Drain	1	228	0.40	0.20	0.30	5.47		7.38.0
	- Sa Guerra D'Atti	2	228	0.70	0.20	0.30	19.15		1.038
		1	228	2.00	0.10	0.20	9.12		
	Top Slab			(1)				FEW F	
	Road side drain		1	2808.00	0.90	0.10	252.72	5 11 2	
							1699.68		
						Say	1700.00	4931.28	8383176.00
	KSRRB M2200 - 6. Supplying, fitting and placing TMT bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per	МТ							
	specifications. MORTH Specification No. 1600 & 2200								
				-					
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)	-							
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) 70kgs per Cum for 3.12				-		119,00	C2074 73	8194680 07
						Say		68274.71	8124689.97
3.14 I		Nos.				Say		68274.71	8124689.97
3.14 I	KSSRB M220 - 8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of IV:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per		320			Say		68274.71	8124689.97
3.14 II	KSSRB M220 - 8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of IV:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per pecifications. MORTH Specification No. 2706 & 2200 P.No 229, INo 28.10 of PW.P&IWTD S.R 2011-12) Road side drain	•					119.00	68274.71	8124689.97
5.14 II tt 8.8 8.8 F F F 11.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	KSSRB M220 - 8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of IV:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications. MORTH Specification No. 2706 & 2200 P.No 229, INo 28.10 of PW.P&IWTD S.R 2011-12) Road side drain	•				,	320.00		
.14 li	KSSRB M220 - 8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of tV:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications. MORTH Specification No. 2706 & 2200 P.No 229, INo 28.10 of PW.P&IWTD S.R 2011-12) Road side drain Providing and fixing RCC Precast cover slab of 00mm thick for drain in cement concrete 1:1.5:3 using raded granite jelly 20mm and down size with steel einforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of Engineer in-	•				,	320.00		
5.14 II	KSSRB M220 - 8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of EV:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications. MORTH Specification No. 2706 & 2200 P.No 229, INo 28.10 of PW.P&IWTD S.R 2011-12) Road side drain Providing and fixing RCC Precast cover slab of 00mm thick for drain in cement concrete 1:1.5:3 using raded granite jelly 20mm and down size with steel einforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, omplete and as per the directions of Engineer in-tharge.	•				,	320.00		

SI. No.	- South Peron of Hork	·Un	it N	lo. 1	Lengt (m)	100000000000000000000000000000000000000	adth m)	(m)	Quant	R	s.	Amount Rs.
8.18	Providing and laying reinforced cement concrepipe NP3 of 300mm dia for culverts including pointing ends, and fixing collars with cement mortar 1 including cost of all materials, labour curing complete aper specifications. Specification No.KSRB 1000, 230 MoRT&H Specification No. 1000 / 2300	ng l:2	t.					Sa	391.	50 146	5.00	573547
	(Pg.No. 257, I.No. 34.6.1 of PW, P&IWTD SR 2011-12) For Catch Drain at 10m interval					1			+	1.1	-	
	or Catch Drain at 10m interval		1 2	228	1.50	0			342.0	1506	3.60	515257.
	KSRRB 2100-6: Filling the foundations trenche using approved sand as per drawing and technical specifications in 250mm layers, wherever necessary watering and ramming, including cost of all materials labour complete as per specifications. MoRT&H Chapte 12	al y						•				
	P.No 221, I.No 27.14 of PW, P & IWTD SR 2011-12)										+	
-	For Rain water Harvesting	64		1	1.00		1.00	0.05	3.19			
t	Providing & Filling of Aggregates to required depth in drain trench including cost of all materials, labour with all lead & lifts etc., complete as per drawing and technical specification 20mm nominal size							Say	3.50	1726.9	2	6044.2
	Data Rate) For Rain water Harvesting	64		1	1.00		.00	0.075	4.79			
d a	Providing & Filling of Boulders to required depth in train trench including cost of all materials, labour with all lead & lifts etc., complete as per drawing and echnical specification 40mm nominal size	1 . 1						Say .	5.00	1194.00		5970.00
	Data Rate)				1	104	1	-			+	
F	or Rain water Harvesting	64		1	1.00	1.	00	0.40 Say	25.54 26.00	894.00		23244.00
co ,sh str (A ha sar cor	SRB 14.6-1: Providing & laying heavy duty cobble tones 75mm thick interlock pavers, using cement & burse sand for manufacture of blocks of approved size hape and colour with a minimum compressive rength of 281 kg per sqm over 50mm thick sand bed way thickness) and compacting with plate vibrator aving 3 tons compaction force thereby forcing part of and underneath to come up in between joints, final mpaction of paver surface joints into its final vel, including cost of materials, labour and HOM of archineries specifications. Specification No. KBS	Sqm										
(P.	No.108 of I.No.14.7 in PW,P&IWTD SR 2011-12)		N E									
Fo	r Footpath	64 .	. 1	.]	1.00	1.00	0	-	63.86			
Ros	ad side drain tween Service Road and Main Carriageway		1	3193	3,00	1.80		5	747.40		_	
LH. RH.	S		1	180 200		3.00			540:00 600.00			
	•			-	-		1 5		951.26	776.52	11297	978.78
	G Grating for Catch Drains Sc ta Rate)	qm				455.00				10.02	1001	10110
Da	rate)	-	228	0.	50	0.40	-	Say	45.60	9705 00	100	190.00
laye depo	RB 2.3: Filling available Excavated Earth Colliding rock) in sides of foundations upto plinth in the state of the sides of foundations upto plinth in the state of the sides o	um .					8		46.00	8765.00	4 03	190.00

	Description of work	U	nit	No.	Lengt	h Br	eadth	Den	th 6	Quanti	tue D.	1. 1.	T
		1			(m)		(m)	(m		Quanti	MARKET BOOK STORY	te in	Amo
	(P.No.6, I.No.2.10 of PW, P&IWTD S.R 2011-12) For Road Side Draid				0.				+		-		+
	For Catch Drain	-		1	3193.0		0.10	1	25	399.	13		
		+	3	228	0.7	0	0.10	0.	70	33.5	52		18.97
		+	+	-		-			-	432.6	_		
3.23	KSRRB M100-4.1. Cost of Haulage including Loadin	g Cu	m			-	-	S	ау	433.0	0 5	97.20	420
	and Unloading of Stone Boulder / Stone aggregates Sand / Kanker / Moorum. Placing tipper at loading point loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH-100/ Chapter 1 Case-I: Surface Road					×							
	(P.No.141&147, of PW, P&IWTD SR 2011-12)	-	-	-					-				
	Qnty same as item no 3.10, 3.22		-	-						+	1		
		_	-						- 4	542.00	123	3.34	5602
24	Miscellaneous & Rounding off			-				10-197					2635779
	9		-	-									20
			-					2 5 5			TOTAL	. 1	2635799
30)	Re-Construction of C										F. UI	-	
25 1	Re-Construction of Compound and Retaining wall	Alon	g Ser	vice l	Road				1			-	
e a di an ec	ASRB 2 - 2.1: Earthwork excavation for foundation of pulldings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m. and bove in width, in ordinary soil not exceeding 1.5m. in epth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from dges of excavation with lead upto 50 m. after breaking f clods complete as per specifications. Specification No. BS 2.1(a) / 2.3.5								:				. 487 20
(P	No.5, I.No.2.3 of PW, P & IWTD S.R 2011-12)			-			4=1						
Fo	or Compound			-								1	THE STATE OF
	etaining wall			1	50.00	0.	.90	1.05	- 1	17.25		1	-
		-		2	100.00	0.	90	1.05	18	39.00	N. SA		
T		-		-			\$211	21	23	36.25		1	
				1				Say		6.50	144.72	1	34226.
@18 me	RRB 4-1.3: Providing and laying in position plain Coment concrete of mix M7.5 with OPC cement 80kgs, with 40mm and down size graded granite tal coarse aggregates 0.85cum and fine aggregates 5.57cum machine mixed, concrete laid in layers not seeding 15 in a bid.	um											
and måc Spec	eeding 15 cms.thick, well compacted, in foundation plinth, including cost of all materials, labour, HOM chinery, curing complete as per specifications. cification No. KBS 4.1, 4.2												
and måc Spe	chinery, curing complete as per specifications. cification No. KBS 4.1, 4.2												
and måd Sped (P.N For	chinery, curing complete as per specifications. cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed		1	5	0.00	0.00		1.5					
and mac Spec (P.N	chinery, curing complete as per specifications. cification No. KBS 4.1, 4.2		1 2		0.00	0.90		0.15		.75			
and mac Spec (P.N	chinery, curing complete as per specifications. cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed		1 2	10	0.00	0.90		0.15	27.	00			
and måc Spec (P.N For Reta	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall		-	10	-		0	0.15	27. 33.	00 75			
and måc Spec (P.N For Reta KSR basa cemoours part abou	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Cu. alt size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m. tin each course including cost of materaials, ir, curing complete asper specifications. fcation No. KBS 5.1.13.		-	10	0.00		0		27.	00 75	799.44	12	9180.96
and mac Special Mac Special Mac Special Mac	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Cu. alt size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m. tin each course including cost of materials, ir. curing complete asper specifications. fcation No. KBS 5.1.13.	·,	-	10	0.00		0	0.15	27. 33.	00 75	799.44	12	9180.96
and måc Speci (P.N For Reta Special Sp	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Cu. alt size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m. tin each course including cost of materaials, in. curing complete asper specifications. fcation No. KBS 5.1.13. D.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) Compound	·	-	10	0.00		0	0.15	27. 33.	00 75	799.44	12	9180.96
and mac Speci (P.N For Reta basa ceme cours about speci P.No or Cort For St. For Cort For Cor	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Curing state masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m. tin each course including cost of materaials, in curing complete asper specifications. fcation No. KBS 5.1.13. 2.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) Compound	·	-	10	0.00		5	5ay	27. 33. 34.	00 75 000 3	799.44	12	9180.96
And made special speci	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Curing size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m tin each course including cost of materaials, in curing complete asper specifications. fcation No. KBS 5.1.13. 2.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) Compound potting	·	2	10	0.00	0.90	0	5ay .	27. 33. 34.	00 75 000 3	799.44	122	9180.96
(P.N. For Reta cemes to peci or Cor Cor Cor Cor Cor Cor Cor Cor Cor	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Curing size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m tin each course including cost of materaials, in curing complete asper specifications. fcation No. KBS 5.1.13. 2.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) Compound poting	·	2	50.	0.00	0.96	0.22	5ay - 25	27. 33. 34. 8.4- 13.50	00 75 000 3 1 1 1 1 1 1 1 1 1	799.44	122	9180.96
Reta KSR Oasa ceme ours part about No or C st Food food food foor R	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Curing size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m. tin each course including cost of materaials, are, curing complete asper specifications. fcation No. KBS 5.1.13. 25, I.No.5.6 of PW, P&IWTD S.R 2011-12) Compound poting complete asper specifications of the course including cost of the curing complete asper specifications. See the curing curin	·	1 1 1 1	50. 50.	0.00	0.90 - - 0.75 0.60	0.22	5ay - 25	27. 33. 34.	00 75 000 3 1 1 1 1 1 1 1 1 1	799.44	122	9180.96
(P.N. For Reta	chinery, curing complete as per specifications cification No. KBS 4.1, 4.2 No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12) Compound bed aining wall B 5.2-3: Providing and constructing granite / trap / Curing size stone masonry in foundation with ent mortor 1:6, stone hammered dressed in sees not less than 20cms high, bond stones at 2m tin each course including cost of materaials, in curing complete asper specifications. fcation No. KBS 5.1.13. 2.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) Compound poting	·	1 1	50. 50.	0.00	0.90 - - 0.75 0.60	0.22	25 55	27. 33. 34. 8.4- 13.50	000 375 000 3	799.44	12	9180.96

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SI. No.	Description of work	Unit	No.	Length . (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount i
						Sav	115.00	2773.44	318945.
3.28	KSRB 5.3-3: Providing and constructing granite / trap basalt size stone masonry in basement with cement mortor 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete asper specifications. Specification No. KBS 5.1.13.								0.13040.
	(P.No.26, I.No.5.9 of PW, P&IWTD S.R 2011-12)							-	
	For Compound		1	50.00	0.45	0.45	10.13		
	For Retaining Wall		2	.100.00	0.45	1.00	90.00		
							100.13		
						Say	100.50	3246.48	326271,2
					//				
	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix M15 with cement @240kgs. with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick well compacted in foundation, plinth and cills, including cost of all materials, labour, 'HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1,4.2	·					·		
1	(P.No.12, I.No 4:6 of PW, P&IWTD S.R 2011-12)		:		•			-	
	For Plinth at Basement Lvl		i	50.00	0.45	0.10	2.25		
	At Top Coping		1	50.00	0.20	0.10	1.00		
I	For Plinth at Basement Lvl		2	100.00	0.45	0.10	9.00		
A	At Top Coping		2	100.00	0.45	0.10	9.00		- 10 t V(t)
_				1			21.25	The same	
-						Say	21.50	4275.72	91927.98
le (c si	SSRB - 5.14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry quoin, Jamb, closer blocks) with solid concrete blocks of lize 40x20x20cms conforming to I.S: 2185/1965 in uperstructure including cost of materials, labour harges, scaffolding, curing complete as perpectifications.	Sqm							¥ A
(F	P.No. 27, I.No. 5.27 of PW, P&IWTD SR 2011-12)								
F	or Compound		1	50.00		2.50	125.00		
						Say	125.00	704.16	88020.00
ru ce de	SRB 15.1-1: Providing flush pointing to square abble, course or uncoursed stone masonry with ement mortar 1:3, 20mm deep, after raking joints to epth of 20mm nicely lining, including cost of materials, bour, curing complete as per specifications.	Sqm							
P	.No. 119, I.No. 15.1 of PW, P&IWTD S.R 2011-12)								
	or Basement		1	50.00	0.45		22.50		
						Say	22.50	75.06	1688.85
in ma rec	SRB 15-3.9: Providing 18mm thick cement plaster S single coat with cement mortar 1:6, to brick asonry including rounding off corners wherever quired smooth rendering. Providing and removing affolding, including cost of materials, labour, curing applete as per specifications.	qm							
(P.	No.120, I.No.15.17 of PW, P& IWTD SR 2011-12)								
	r Compound		1	50.00		5.25	262.50		
-		-		- 19.00		-1-4			9123.00

SI. No.	Description of work	Uni		No.	Length (m)	Breadtl (m)	Depth (m)	Quantity	Rate in	Amount in
3.33	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9								. KS.	A.S.
	(Pg.No. 6, I.No. 2.10 of PW, P & IWTD S.R 2011-12)		-				-			
	For foundation · · · · · · · · · · · · · · · · · · ·	-	-			-			-	
	Same as Qty = Sl.No. 3.25-(3.26+3.27)		-					87.50		
							Say	87.50	97.20	8505.00
	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give and even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications (with primer)	Sqm								
(P.No.124, I.No.15.53.2 of PW, P & IWTD S.R 2011-12)	-	-	+						
F	or Compound			1	50.00		100			
			+	1	30.00		4.25	212.50		
			-	-			Say	212.50	63.60	13515.00
S a d h	ASRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / and /Kankar / Moorum KSRRB M100-1: Placing tipper t loading point, loading with front end loader, umping, turning for return trip, excluding time for aulage and return trip complete as per specifications.	Cum	•							4 - 2 - 2 - 2
Co	onveying up to 20km by Mechanical means.									
(P	age No.141&147 of PW, P & IWTD S.R 2011-12)			1	-		-		-	
Q	nty same as item no 3.25-3.33							149.00	123.34	10077.00
0 1								145.00		18377.66
6 M	iscellaneous & Rounding off								-	218.43
									TOTAL	1070000.00

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Construction of Covered Portion of Underpass

SI. No.	Description of Work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount i
4.01	KSRRB 300-44 Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications. MORTH Chapter 3			•					
	(P.No.155, I.No.19.50 of PW, P&IWTD SR 2011-12)								
	For box portion								100000
	Shivanagar 1st Main Road Junction		1	51.30	20.90		1072.17		
	Shivanagar 8th Main Road Junction		1	56.30	20.90	•	1176.67		
		•	-			•	2248.84		
						Say	2249.00	19.33	43477.6
4.02	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications. MORTH Chapter 3				*				
	(P.No.155, I.No.19.51 of PW, P&IWTD SR 2011-12)			200	0.00				19
	For box portion								
	Shivanagar 1st Main Road Junction		1	51.30	20.90		1072.17		
	Shivanagar 8th Main Road Junction		1	56.30	20.90		1176.67		
							2248.84		
						Say	2249.00	38.66	86955.34
	The state of the s								
	KSRRB M2100-2.1 Earthwork in excavation for foundation of structures as per drawing and technical specifications. Including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering charges)	Cum							
	P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-12)								
	For box portion			71.00	00.00	2.00	2010.05	-	
	Shivanagar 1st Main Road Junction	-	1	51.30	20.90	3.00	3218.65 3532.36		
-	Shivanagar 8th Main Road Junction	-	1	56.30	20.50	3.001	3032.30		
	For Approach Slab Shivanagar 1st Main Road Junction	-	2	50.00	3.50	0.50	175.00		
	Shivanagar 1st Main Road Junction		2	55.00	3.50	0.50	192.50		_
- 1	onivanagar otti Main Road adriction		-	00.00	0.00	0.00	7118.52		
						Say	7119.00	40.99	291779.33
f t c s s n N	ASRRB M2100-2.2 Earthwork in excavation for boundation of structures as per drawing and echnical specifications, including setting out, construction of shoring and bracing, removal of tumps and other deleterious matter, dressing of ides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH pecification No.304 (Add 10% of Dewatering Charges)								

SI. No.	Description of Work	Un	it N		ngth m)	Bread (m)			Quanti	ty Rate	in Amount
-	(P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12)	+							100.	105.
	For box portion									+	-
-	Shivanagar 1st Main Road Junction			1 5	1.30	20.	90	3.00	3218.6	55	
-	Shivanagar 8th Main Road Junction	- 1		1 5	6.30	20.		3.00	3532.3		
					-	The second			6751.0		
	Consider 60% of the Qnty								4050.6	_	
								Say	4051.0	-	32 189659.
100			1 2						100110	10.0	189059.
4.05	KSRRB M2100-3.2: Earth work in excavation	n Cun	1							-	
	for foundation of structures as per drawing an	id		100				-			
	technical specifications, including setting ou	t,		1	-						-10
	construction of shoring and bracing, removal	of									
	stumps and other deleterious matter, dressing	of	1:								A San
	sides and bottom and backfilling with approve material complete as per specification										
	material complete as per specification II.Ordinary rock (not requiring blasting	8.							:		
	B.Mechanical Means Depth upto 3m. MORT							1			
	Specification No.304 (Add 10% of Dewaterin	1	1.	1							1000
	Charges)	g		1	3						
-											
1	(P.No.220, I.No.27.8 of PW, P&IWTD SR 2011-12) For box portion		-				A Vine			See Marine	
-							1.			in volet. Sa	Land Care
	Shivanagar 1st Main Road Junction	-	1	-	.30	20.90	0 1.	45	1556.79		
	Shivanagar 8th Main Road Junction		1	56.	.30	20.90	1.	45 .	1708.52	Algo-m	DOES NO.
-	Consider Office Color								3265.32	Lecto	
-	Consider 95% of the Qnty	-			**		CONT.		3102.05		A
10	Consider 4006 after On B. M. W.	-			1						
-	Consider 40% of the Qty From Item No 4.04	-				-			2700.41		
							Total Q	ty	5802.46		
_	· · · · · · · · · · · · · · · · · · ·						S	ay	580 2.50	51.84	300801.60
1 06 K	SPPR M9100 40 P. dl							-			with the same
6	SRRB M2100-4.2: Earthwork in excavation for	Cum									
te	oundation of structures as per drawing and echnical specifications, including setting out,								-		
co	onstruction of shoring and bracing, removal of					55.40					
st	cumps and other deleterious matter, dressing of							1.			
si	des and bottom and backfilling with approved						-#T				
m	aterial complete as per specifications. III Hard				1						
ro	ock -(blasting prohibited) A.Mechanical					-					
m	eans MORTH Specification No.304 (Add 10% of							1			
D	ewatering Charges)	1			1.						
P	.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12)				-	-		1			
Co	onsider 5% of the Item No. 4.05	-	-		+			-			
-	Added to worth the Item No. 4.05	-			-			-	163.27		
+		-	-		-		Say	1	163.50	324.00	52974.00
07 KS	SRRB M2100-13. Plain Cement Concrete M15	-	-		-						
wit	th OPC cement @ 240kgs, with 40mm and down	Cum				-	*				
size	e graded granite metal coarse aggregates @				1						
0.8	4cum and fine aggregates @ 0.56cum in Open				1					1	
fou	indation complete as per Drawing and Technical										
Spe	ecifications. MORTH Specification No. 1500,			#2	1						
170	00 & 2100										
(P)	No 991 TAL OF STREET	200									
For	No.221, I.No.27.24 of PW,P&IWTD S.R 2011-12)				-						1
Shi	Bed concrete below box segment								/A:		
Shi	vanagar 1st Main Road Junction		1	50.30		19.40	0.15		146.37		
For	vanagar 8th Main Road Junction		1	55.30		19.40	0.15	JC J	160.92		
Shi	Approach Slab				3.1						
Shir	vanagar 1st Main Road Junction		2	50.00		3.50	0.15		52.50		
Aho	vanagar 8th Main Road Junction : ve box for footpath		2	55.00		3.50	0.15		57.75		
SHIV	anagar 1st Main Road Junction		_	18.50		1.50	0.25		13.88		
Shiv	anagar 8th Main Road Junction ian Filling inside Box		2	18.50		1.50	0.25		13.88		
I B. C.	ian rilling inside Box		1		TO I					-	
Med	anage 1 . M. F	-	-		-	-					
Shiv	anagar 1st Main Road Junction	-		50.00		0.30	0.45	Talk 8	13.50	-	
Shiv	anagar 1st Main Road Junction anagar 8th Main Road Junction	-	-	50.00 55.00		0.30	0.45		13.50 14.85	一	

No.	Description of Work	Unit	No.	Length (m)	Breadt (m)	th Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	4					Say	474.00	3724.92	1765612.08
4.08	KSRRB M2100-20.2: Reinforced Cement Concrete in Open Foundation with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. Case II: with Batching Plant,	•			1.4				
	Transit Mixer and Concrete Pump MoRT&H Specification No. 1500, 1700 & 2100								
	(P.No.224, I.No.27.37 of PW, P& IWTD SR 2011-12)					Avg		7.	
	Bottom Slab								
-	Shivanagar 1st Main Road Junction		1	50.00	19.10		644.63		
	OL: OLIVE D. LE	-	_			. 2		100	
-	Shivanagar 8th Main Road Junction	-	1	.55.00	19.10		709.09		
			+			2	1000 00		
			-			Net Qty Say	1353.71	4019.00	0050405.00
			-			Say	1354.00	4918.32	6659405.28
i se a	cement concrete mix M5 with OPC cement @ 160kgs, with 25mm and down size graded granite metal coarse aggregates at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 100 minutes.								
d 7 si cc fi	han 160kg/cum, optimum moisture content to be etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601								
d co	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601					Avg			
d cc 77 si cc fii M (F	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601 2.No.185, I.No.22.1 of PW, P&IWTD SR 2011-12): bove Bottom Slab								
d cc 77 si cc fii M (F	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601	d)	2	50.00	8.00	0.375 + 0.50	350.00		
d co	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601 P.No.185, I.No.22.1 of PW. P&IWTD SR 2011-12): bove Bottom Slab hivanagar 1st Main Road Junction	0				0.375 + 0.50			
d co	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601 2.No.185, I.No.22.1 of PW, P&IWTD SR 2011-12): bove Bottom Slab		2 2	50.00		0.375 + 0.50 2 0.375 + 0.50	350.00		
d co	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601 P.No.185, I.No.22.1 of PW. P&IWTD SR 2011-12): bove Bottom Slab hivanagar 1st Main Road Junction					0.375 + 0.50 2 0.375 + 0.50 2	385.00		
d co	etermined during trial length construction, oncrete strength not to be less than 10Mpa at days, mixed in a batching plant, transported to ite, laid with a paver with electronic sensor, ompacting with 8-10 tonnes vibratory roller, nishing and curing complete as per specifications. IORTH Specification No.601 P.No.185, I.No.22.1 of PW. P&IWTD SR 2011-12): bove Bottom Slab hivanagar 1st Main Road Junction					0.375 + 0.50 2 0.375 + 0.50	385.00 735.00	2757.24 20	26571.40

SI. No.	Description of Work	Unit	No	Lengt (m)	th Breadtl (m)	Depth (m)	Quantity	Rate in	Amount in Rs.
4.10	KSRRB M600-2: Cement Concrete Pavement: Construction of unreinforced, dowel jointed, plain cement concrete pavement over a prepared subbase with OPC cement design mix M40 at 360kg per cum, with 25mm and down size graded granite metal coarse aggregate at 0.69cum and fine aggregates @ 0.46cum with superplastisiser at 31ts conforming to IS9103-1999 reaffirmed-2008, coarse and fine aggregates conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealent, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. MORTH Specification No.602								
	(P.No. 185, I.No. 22.2 of PW, P&IWTD \$R 2011-12)					·			
	Above Dry Lean Concrete		1.0		-				
	Shivanagar 1st Main Road Junction		2	50.00	7.50	0.20	. 150.00		
	Shivanagar 8th Main Road Junction		2	55.00	7.50	0.20	165.00		
							315.00		
	KSRRB 2200-5.18. Design mix M35 with QPC	0				Say	315.00	5083.56	1601321.40
	cement @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5 m height								3 (
	(P.No.228, I.No.28.7.18 of PW, P& IWTD SR 2011-12))	-		Avg			8 24 3	
	Box Portion side wall	· · ·	1						
	Shivanagar 1st Main Road Junction	••	2	50.00	2 .	5.00	312.63		
	Shivanagar 8th Main Road Junction		2	55.00	0.75 + 0.45	.5.00	330.13		
-					2				
	Box Portion central wall Shivanagar 1st Main Road Junction	-	-		0.40		100.01		
	Shivanagar 1st Main Road Junction	-	1	50.00 55.00	0.40	5.00	110.04		
	Drainage	-	1		0.40	5.00	110.04		
The Personal Property lies	Shivanagar 1st Main Road Junction		2	50.00	0.20	0.60	12.00		
	Shivanagar 8th Main Road Junction		2	55.00	0.20	0.60	13.20		
							878.04		
						Say	878.50	5489.64	48 22648.74
c	KSRRB 2200-5.19. Design mix M35 with OPC ement @ 390kgs, with 20mm and down size graded tranite metal coarse aggregates @ 0.68cum and fine	Cum							
a	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m						.:		
a c h	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For neight, upto 10m		1		Avg		.:	•	
a c b	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) fox Portion side wall				Avg		:		
a c h	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12)		2	50.00	Avg	1.25	75.12		
a c c b C B S S	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) fox Portion side wall hivanagar 1st Main Road Junction		2	50.00		1.25			
a c h	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) fox Portion side wall		2 2		0.75 + 0.5 2 0.75 + 0.45	1.25			
a c c h	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) fox Portion side wall hivanagar 1st Main Road Junction hivanagar 8th Main Road Junction				0.75 + 0.5		75.12		
a c c h	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) lox Portion side wall hivanagar 1st Main Road Junction hivanagar 8th Main Road Junction ox Portion central wall		2	55.00	0.75 + 0.5 2 0.75 + 0.45 2	1.25	75.12 82.63		
a c c h s s s s s s s s s s s s s s s s s	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) lox Portion side wall hivanagar 1st Main Road Junction ox Portion central wall hivanagar 1st Main Road Junction		2	55.00	0.75 + 0.5 2 0.75 + 0.45 2 0.40	1.25	75.12 82.63 25.04		
a c c h s s s s s s s s s s s s s s s s s	ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For leight, upto 10m P.No.228, I.No.28.7.19 of PW, P& IWTD SR 2011-12) lox Portion side wall hivanagar 1st Main Road Junction hivanagar 8th Main Road Junction ox Portion central wall		2	55.00	0.75 + 0.5 2 0.75 + 0.45 2	1.25	75.12 82.63		

SI. No.	Description of Work	Uni	t No	(m)	V 200 L	Breadth (m)	Depth (m)	Quantit	y Rate Rs.	
4.13	KSRRB M2200 - 6. Supplying, fitting and placin TMT bar reinforcement in sub - structur complete as per drawing and technical specifications complete as per specification MORTH Specification No. 1600 & 2200	e								
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)	+	+	+	+				-	
	Consider 35 kg/cum for Sl.No.4.10	-	-	-	+			-		-
	For CC Pavement	-	-	-	+			110		
	Consider 130kg/cum for 4.08.4.11,4.12	+	-	-	+		**	11.0	3 :	
	For Bottom Slab, Side & Central Wall	1	1	-	+			017.	-	
	- Design State, State & Central Wall	1	-		+			317.59	_	
		1	-		+		Carr	328.62		
5		-	1		+	- ;	Say	329.00	68274.	71 2246237
	KSRRB M2300-8.1: For Solid Slab: Furnishing and Placing Reinforced /Prestressed Cemen Concrete in super structure as per drawing and Technical Specification complete as per specifications. D. RCC/PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II: Using Batching Plant, Transit Mixer & Concrete Pump. MORTH Specification No. 1500, 1600 & 1700 Height 5m to 10m.									
-10	D No 997 T N. 20 10 2 SDW DA HUMB CD 2011 1			-,-	-					
	P.No.237, I.No.29.16.2 of PW, P& IWTD SR 2011-1	2)		The second	1		11.15	APA 38		1
	Top Slab						j.			
	Shivanagar 1st Main Road Junction		1	50.00	-	18.50	0.45	416.25		
	hivanagar 8th Main Road Junction		1	55.00		18.50	0.45	457.88		
-	Iaunch Portion						THE PROPERTY AND ADDRESS OF			
15	hivanagar 1st Main Road Junction		2	50.00		0.30	0.60	18.00		1000
			2	50.00		0.30	0.30	9.00		
S	hivanagar 8th Main Road Junction	10/4/2	2	55.00		0.30	0.60	19.80		
			2	55.00		0.30	0.30	9.90	1	
-	arbel Portion						200		1	
S	hivanagar 1st Main Road Junction		2	50.00		0.50	0.50	25.00		
S	hivanagar 8th Main Road Junction	80.4	2	55.00		0.50	0.50	27.50		
	rash barrier							27.00		-
S	hivanagar 1st Main Road Junction .		2	18.50	_	0.15	1.18	6.52		
			2	18.50		0.94	0.23	7.80		
SI	nivanagar 8th Main Road Junction		2	18.50	_	0.15	1.18	6.52		
			2	18.50		0.94	0.23	7.80		
				10.00	19.57	0.01	0.20	1011.98		
			-		-	-	Say	1011.98	5004.44	
Ti co sp	SRRB M2300 - 14. Supplying, fitting and placing MT bar reinforcement in super - structure mplete as per drawing and technical ecifications complete as per specifications ORTH Specification No. 1600	Т					Say		5824.44	58 94333.2
(P	No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12)		1	12821						
Co	nsider 130kg/cum for Sl.No. 4.14	+	-					131.56		
	D				•		Say	132.00	39013.85	91 0 9827.7
for spe	RRB M2700-7: Reinforced Cement Concrete 30 approach slab including reinforcement and m work complete as per drawing and Technical cification complete as per specifications. DRTH Specification No. 1500, 1600, 1700 & 2704	Cum							3010.00	1,0002
(P.1	No. 250, 1.No. 32.7 of PW, P&IWTD SR 2011-12) Approach Slab		1							

Sl. No.	Description of Work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount i
	Shivanagar 8th Main Road Junction	Section 8	2	55.00	3.50	0.35	134.75		
		0.0		1			257.25		
	•					Say	257.50	8009.28	2062389.0
4.17	VCPD o'A D CW'	C	-						
4.17	KSRB 2.4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting earth deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per			••••	4				
	specflications.								
- 195	(P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12)				-3-90				
	Both sides of the box portion				Avg				
	Shivanagar 1st Main Road Junction		2	51.30		1.50	161.60		
	Shivanagar 8th Main Road Junction		2	56.30	1.05	1.50	177.35		
						-	338.94		
						Say	339.00	58.32	19770,4
	KSSRB M2200-9. Providing and laying Filter Media with granular materials / stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2. of MORTH specifications to a thickness of:not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification complete as per specifications MORTH Specification No. 710.1.4 of IRC: 78 & 2200								
	(P.No.229, I.No.28.13 of PW.P&IWTD S.R 2011-12)	W-10				4/	E/9(9/9		
	Both sides of the box portion			•		•			
-	Shivanagar 1st Main Road Junction		2	51.30	0.60	5.31	327.16		
- 15	Shivanagar 8th Main Road Junction		2	56.30	0.60	5.31	359.05		
-			-			Say	686.21	007.00	456714.72
F	KSRRB M2200 - 8.1. Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification complete as per specifications. A. Granular Material MORTH Specification No. 710.1.4 of IRC: 78 & 2200	Cum				Say	360.30	665.28	400114.72
(P.No.229, I.No.28.11 of PW,P&IWTD S.R 2011-12)		-				-		
	Both sides of the box portion						Market I		
	Shivanagar 1st Main Road Junction		2	51.30	0.60	5.31	327.16		
S	Shivanagar 8th Main Road Junction		2	56.30	0.60	5.31	359.05		
							686.21		
-			-			Say	686.50	275.40	1 89062.10
e: W C S	ASSRB M220 - 8. Providing weep holes in Brick In asonry / Plain / Reinforced concrete abutment, ring wall / return wall with 100mm dia AC pipe, attending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical pecifications complete as per specifications. IORTH Specification No. 2706 & 2200	Nos./mt	r						
P	No 229 , INo 28.10 of PW.P&IWTD S.R 2011-12)		+	-				-	
	ox Portion side wall							-	
	hivanagar 1st Main Road Junction	1	50				150.00	-	-
	hivanagar 8th Main Road Junction		65	**			165.00		
							315.00		
		991				Say	315.00	148.23	46692.45
								-	_

4.22	KSRRB M500-10. Tack Coat: Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom complete as per specifications. MORTH specificaton No.503 (P.No. 172 I.No.21.10.1 of PW.P&IWTD S.R 2011-12. Above top & approach slab Shivanagar 1st Main Road Junction Shivanagar 8th Main Road Junction KSRRB M2700-1. Providing and laying 12 mm thick mastic asphalt wearing course on top of)	1 1	25.50 25.50	50.00		1975.00		
4.22	Above top & approach slab Shivanagar 1st Main Road Junction Shivanagar 8th Main Road Junction KSRRB M2700-1. Providing and laying 12 mm thick mastic asphalt wearing course on top of				-	-	1075.00		19
4.22	Above top & approach slab Shivanagar 1st Main Road Junction Shivanagar 8th Main Road Junction KSRRB M2700-1. Providing and laying 12 mm thick mastic asphalt wearing course on top of				-		1075.00		
4.22	Shivanagar 1st Main Road Junction Shivanagar 8th Main Road Junction KSRRB M2700-1. Providing and laying 12 mm thick mastic asphalt wearing course on top of	0			-		1075 00		Commence of the Commence of th
4.22	Shivanagar 8th Main Road Junction KSRRB M2700-1. Providing and laying 12 mm thick mastic asphalt wearing course on top of	C	1	25.50	55.00		1275.00		
4.22	KSRRB M2700-1. Providing and laying 12 mm thick mastic asphalt wearing course on top of					224	1402.50		
4.22	thick mastic asphalt wearing course on top of	C					2677.50		
4.22	thick mastic asphalt wearing course on top of	C				Say	2677.50	11.08	29668.8
1.22	thick mastic asphalt wearing course on top of	Sam							
t v	deck slab excluding prime coat with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of 9.5 mm nominal size at the rate of 0.005 cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces is not less than 100deg. C, protruding 1 mm to 4 mm over mastic surface, complete as per clause 5100.5 complete as per specifications. MORTH Specification No. 515 & 2702			,					
(P.No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12)								
F	Above top & approach slab								
5	Shivanagar 1st Main Road Junction .		1	25.50	50.00		1275.00		
5	Shivanagar 8th Main Road Junction		1	25.50	55.00		1402.50		
							2677.50		
			•			Say	2677.50	238.68	639065.70
o p s ii	KSRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with pray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm				•			
0	P.No.172 I.No.21.7 of PW,P&IWTD SR of 2011-12)			B14 624					
	Above top & approach slab								
	Shivanagar 1st Main Road Junction		1	25.50	50.00		1275.00		
	hivanagar 8th Main Road Junction		1	25.50	55.00		1402.50	lie to a	
	The same same same same same same same sam						2677.50		
		*. *				Say	2677.50	16.46	44069.51

(c) f 10

Sl. No	The state of the s	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Ri	
4.24	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specification No. 509 with								
	30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP								11076
	(P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011-1	(2)							100
	Above top & approach slab								
	Shivanagar 1st Main Road Junction		1	25.50	50.00	0.04	51.00		THE SECOND
	Shivanagar 8th Main Road Junction		1	25.50	55.00	0.04	56.10		
							107.10		
		_	-			Say	107.50	11208.63	1204927.
4.25	Anti carbonate painting with approved colour as per specifications including cost of materials, labour etc., complete as per specifications and as directed by the Engineer in Charge.	Sqm							
	(Market rate)							100	91719
	Shivanagar 1st Main Road Junction								
	Sides		4	50.00		5.50	1100.00		La company
	Top Slab		2	18.50		0.45	16.65		
	Ceiling ·		2	50.00	8.60		860.00		
	Crash barrier		2	18.50		2.33	86.03		
	Shivanagar 8th Main Road Junction		-	77.00		7.50	1010 00		
	Sides	-	4	55.00		5.50	1210.00		
	Top Slab Ceiling	-	2	18.50 55.00	8.60	0.45	16.65 946.00		
	Crash barrier		2	18.50	0.00	2.33	86.03		
diam's	Crash parrier		-	10.00		2.00	4321.35		
						Say	4321.50	200.00	864300.0
1.26	KSRRB 13-9.1: Providing and fixing to wall, ceiling and floor, high density polythylene pipes 6.00 kgf/sq.cm working pressure 160mm outside	m							1,8/1/59/
	diameter with special Flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No. KBS 13.2.15.2/13.9						1		
	(Market Rate)								
	Shivanagar 1st Main Road Junction		6	18.50			111.00		
	Shivanagar 8th Main Road Junction		6	18.50			111.00		
			-				222.00	1400.00	2000000
1	KSRRM M2700-4. Providing fitting and fixing mild steel railing complete as per drawing and technical Specification. Complete as per MORTH Specification No. 2703.2, 1900	m				Say	222.00	1480.00	328560.00
1	P.No. 250, I.No. 32.4 of PW, P & IWTD S.R 2011-12)	-	-						
	Over Box portion	-							
The same of the same of		-	2	18.50			37.00		
5	onivanagar 1st Main Road Junction		And is						
	Shivanagar 1st Main Road Junction Shivanagar 8th Main Road Junction		2	18.50			37.00		

Sl. No.	Description of Work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate i	n Amount Rs.
	Center Lane Marking line		1				-		-
	Shivanagar 1st Main Road Junction		2	50.00	0.15		- : 15.00		
	Shivanagar 8th Main Road Junction		2		0.15				+
	Edge line						10.00		
	Shivanagar 1st Main Road Junction		4	50.00	0.15		30.00		-
	Shivanagar 8th Main Road Junction		4	55.00	0.15		33.00		-
							94.50		+
	•					Say	-	429.8	4 40834.8
	and the second s	100					00.00	423.0	40004.0
	KSRRB M800-35 Providing and fixing of road stud 100 x 100 mm, die cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphlatic surface by drilling hole 30 mm upto a depth of 60mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4: 1973 complete as per specifications.			•					
	(P.No.197, I.No.24.41 of PW,P&IWTD SR 2011-12)				2 2 2		-		
	Center Lane Marking line		-						
	Shivanagar 1st Main Road Junction		33				22.00		
	Shivanagar 8th Main Road Junction		. 37	:			33.00		
	Edge line		-		•		37.00		
1	Shivanagar 1st Main Road Junction		6.7				67.00		
1	Shivanagar 8th Main Road Junction		73				73.00	-	
	g and the first state of the fir		-				210.00		
			-				210.00	290.52	61000.00
i	KSRRB M100-4.2. Haulage of materials by tipper including cost of loading, unloading and stacking omplete as per specifications. MoRT&H Chapter 1 Case-I: Surface Road	Cum				1440	210.00	230.02	61009.20
(P. No.141&147 of PW, P&IWTD S.R 2011-12)		.						
	ty = Sl.No. 4.01 x 0.075						168.68		- 1
6	ty = Sl.No. 4.02 x 0.075					-	168.68	-	
	ty = Sl.No. 4.03 + 4.04 + 4.05 - 4.17						16796.83	-	
							17134.18		
						Sav	17134.50	123 34	2113369.23
							17104.00		5 155098.55
35 M	liscellaneous & Rounding off				THE 1			- 0	1.45
		-	-						
_								6	5 155100.0

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Construction of Retaining Wall

SI. No.	Description of work			No.	Lengt (m)	Breac (m)		Depth (m)	Quantit	y Rate in Rs	. Amour
5.01	KSRRB 300-44 Scarifying top bitumine surface or surface dressing or premix car including picking up scarified materials, stacking old serviceable materials by manual means includ cost of all labour charges complete as specifications. MORTH Chapter 3	pet g of	qm								IVS.
	(P.No.155, I.No 19.50 of PW, P&IWTD SR 2011-12)	+				+			to the state of the	
	For Retaining Wall						+				
-	Retaining wall towards Basaveshwara Nagar 1st M	Iain R	oad				+				
	From 0 to 15.18			2	15.18	1.5	58		47.82		
	From 15.18 to 33.88			2	18.70	2.3	30		86.02		
	From 33.88 to 46.47			2	12.59	2:5	00		73.02		
	From 46.47 to 61.53			2	15.06	3.7	_		111.44		-
	From 61.53 to 75.83	-		2	14.30	4.2	-		120.12		
	From 75.83 to 100.62			2	24.79	5.8	_		. 287.56		
1	Retaining b/w Shivanagar 1st & 8th Main		1		* .	0.0	-	-	. 201.06		
11	From 0 to 31.27			2	31.27	5.8	0		200 70		
	From 31.27 to 58.62			. 2	27.35	5.8	-	-	362.73		
F	From 58.62 to 94.8	1	-	2	36.18	5.80	-	-	317.26		
F	From 94.8 to 139.33	-	+	2	44.53		-		419.69		
F	From 139.33 to 174.39	-	+	2	35.06	5.80	-		516.55		
F	From 174.39 to 208.05	1	+	2	33.66	5.80	-		406.70		
	letaining wall towards Manjunathnagar Road	+	+		33.00	5.80	4		390.46		
F	rom 0 to 17.84 & from Ch 495 to Ch 560	-	+	9	77.04	1.00	-	-	-		
F	rom 17.84 to 33.65	-	+-	2	77.84	1.58	-		245.20		
	rom 33.65 to 65.72	-	-	2	15.81	2.30	-		72.73		
	rom 65.72 to 85.6	-	-	2	32.07	2.90	-		186.01		
	rom 85.6 to 114.06	-	-	2	19.88	3.70	-		147.11		
	rom 114.06 to 138.56	-		2	28.46	4.75			270.37		
	rom 138.56 to 163.84	-	-	2	24.50	5.80			284.20		
	rom 163.84 to 186.41		-	2	25.28	5.80			293.25	100000	
1	033 100.04 to 188.41	-		2	22.57	5.80			261.81		0.70
-									4900.04		
+								Say	4900.50	19.33	94736.4
KS	SPPD 200 45 G : 6:										01100.1
pre ser	SRRB 300-45: Scarifying stone metal crust mm to 100mm thick with pick axes along with emix carpet / surface dressing and stacking of old eviceable materials by manual means including et of all labour charges complete as per- ecifications. MORTH Chapter 3										
(P.1	No.155, I.No.19.51 of PW, P&IWTD SR 2011-12)			1		-	-				
Qty	same as Item No.1					-	-	-	1000 50		
				+		-	CONT.	- 4	900.50	38.66 1	89472.93
KSI	RRB M2100-2.1 Earthwork in excavation for	Cum		+		-	1	-			N. STATE
tech cons stun side: mate Meci	ndation of structures as per drawing and inical specifications. Including setting out, struction of shoring and bracing, removal of mps and other deleterious matter, dressing of s and bottom and backfilling with approved erial complete as per specifications. B. hanical Means (i) Depth upto 3m MORTH infication No. 304 (Add 10% dewatering								4		
char				137		9 3		1.8			
char	o. 220, I No. 27.4 of PW, P & IWTD SR 2011-12)	-						100			

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Vo.	Description of work	Uni	No	Length (m)	Breadtl (m)	Depth (m)	Quantity	Rate in Rs	Amount Rs.
-	Retaining wall towards Basaveshwara Nagar 1st Ma	in Roa	d		0.000	a dime			
	From 0 to 15.18		_	2 15.18	1.58	1.21	57.86		
	From 15.18 to 33.88			2 18.70		and the second second second			
	From 33.88 to 46.47			2 . 12.59	-	-	1		1,210.21
	From 46.47 to 61.53			15.06	3,70				
- 11	From 61.53 to 75.83		1	14.30	4.20	-			
	From 75.83 to 100.62		1	24.79	The same of the same of	-			
	Retaining b/w Shivanagar 1st & 8th Main								- 100
	From 0 to 31.27	1000	2	31.27	5.80	3.00	1088.20	Maria San	
	From 31.27 to 58.62		2	27.35	5.80	3.00	950.19		
	From 58.62 to 94.8		2	36.18	5.80	3.00	1259.06		11.50
	From 94.8 to 139.33	1999	2	44.53	5.80	3.00	1547.06		
	From 139.33 to 174.39		2	35.06	5.80	3.00	1218.05		
	From 174.39 to 208.05	1000	2	33.66	5.80	3.00	1171.37		
	Retaining wall towards Manjunathnagar Road								
	From 0 to 17.84 & from Ch 495 to Ch 560		2	77.84	1.58	1.25	306.50		
	From 17.84 to 33.65		2		2.30	2.25	163.63		
-	From 33.65 to 65.72		2		2.90	3.00	557.09		
	From 65.72 to 85.6		2		3.70	3.00	440.60	mier Kesel	
-	From 85.6 to 114.06		2		4.75	· . 3,00	809.76		
-	From 114.06 to 138.56		2	24.50	5.80	3.00	852.60		
-	From 138.56 to 163.84		2	25.28	5.80	3.00	878.28		
-	From 163.84 to 186.41		2	22.57	5.80	3.00	784.13		
-				•			14083.19		
-					T	otal Qty	14083.50	40.99	577226.3
S	echnical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of idea and bottom and backfilling with approved					(a			ж. М
	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Viechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering					2.00			r. f
	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges)								#6 fb.
	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12)						. :		eo fil
S C	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) or Retaining wall								#6 12.
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) or Retaining wall towards Basaveshwara Nagar 1st Main stumps.		9		200	2.00	. :		** ** ** ** ** ** ** ** ** ** ** ** **
S C C R	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) or Retaining wall letaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47		2	12.59	2.90	0.67	48.92		** ** ** ** ** ** ** ** ** ** ** ** **
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) or Retaining wall letaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 from 46.47 to 61.53		2	12.59	3.70	0.67	48.92 199.48		** * * * * * * * * * * * * * * * * * *
C C C C C C C C C C	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) or Retaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 from 46.47 to 61.53 rom 61.53 td 75.83		2	12.59 15.06 14.30	3.70 4.20	0.67 1.79 2.83	48.92 199.48 339.94		** ** ** ** ** ** ** ** ** ** ** ** **
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P. No. 220, I. No. 27.5 of PW, P&IWTD SR 2011-12) or Retaining wall letaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 from 46.47 to 61.53 rom 61.53 td 75.83 rom 75.83 to 100.62		2	12.59	3.70	0.67	48.92 199.48		** ** ** ** ** ** ** ** ** ** ** ** **
s s s s n n M S S C C C C C C C C C C C C C C C C C	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) for Retaining wall letaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 From 46.47 to 61.53 From 61.53 td 75.83 From 75.83 to 100.62 Tetaining b/w Shivanagar 1st & 8th Main		2 2 2	12.59 15.06 14.30 24.79	3.70 4.20 5.80	0.67 1.79 2.83 3.00	48.92 199.48 339.94 862.69		#0 fb.
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) for Retaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 rom 46.47 to 61.53 rom 61.53 td 75.83 rom 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main rom 0 to 31.27		2 2 2 2	12.59 15.06 14.30 24.79	3.70 4.20 5.80 5.80	0.67 1.79 2.83 3.00	48.92 199.48 339.94 862.69		#0 fb.
C C C C C C C C C C	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) for Retaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 From 46.47 to 61.53 From 61.53 td 75.83 From 75.83 to 100.62 Letaining b/w Shivanagar 1st & 8th Main rom 0 to 31.27 From 31.27 to 58.62		2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35	3.70 4.20 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00	48.92 199.48 339.94 862.69 1088.20 950.19		to fin
SS	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 58.62 to 94.8		2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18	3.70 4.20 5.80 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00 3.00 3.00	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06		to fine
SS C C C C C C C C C C C C C C C C C C	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 58.62 to 94.8 from 94.8 to 139.33		2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53	3.70 4.20 5.80 5.80 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06		FO TO
SS CO	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved naterial complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main rom 0 to 31.27 from 31.27 to 58.62 from 58.62 to 94.8 from 94.8 to 139.33 from 139.33 to 174.39		2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05		** ** ** ** ** ** ** ** ** ** ** ** **
C S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12) For Retaining wall Setaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 From 46.47 to 61.53 From 61.53 td 75.83 From 75.83 to 100.62 Setaining b/w Shivanagar 1st & 8th Main rom 0 to 31.27 From 31.27 to 58.62 From 58.62 to 94.8 From 94.8 to 139.33 From 139.33 to 174.39 From 174.39 to 208.05		2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53	3.70 4.20 5.80 5.80 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06		** ** ** ** ** ** ** ** ** ** ** ** **
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) For Retaining wall Setaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 From 46.47 to 61.53 From 61.53 td 75.83 From 61.53 td 75.83 From 75.83 to 100.62 Setaining b/w Shivanagar 1st & 8th Main rom 0 to 31.27 From 31.27 to 58.62 From 58.62 to 94.8 From 94.8 to 139.33 From 139.33 to 174.39 From 174.39 to 208.05 Setaining wall towards Manjunathnagar Road		2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37		#6 fb.
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) For Retaining wall Setaining wall towards Basaveshwara Nagar 1st Main rom 33.88 to 46.47 From 46.47 to 61.53 From 61.53 td 75.83 From 61.53 td 75.83 From 75.83 to 100.62 Setaining b/w Shivanagar 1st & 8th Main rom 0 to 31.27 From 31.27 to 58.62 From 58.62 to 94.8 From 94.8 to 139.33 From 139.33 to 174.39 From 174.39 to 208.05 Setaining wall towards Manjunathnagar Road From 33.65 to 65.72		2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37		
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main from 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 58.62 to 94.8 from 94.8 to 139.33 from 139.33 to 174.39 from 174.39 to 208.05 etaining wall towards Manjunathnagar Road from 33.65 to 65.72 from 65.72 to 85.6		2 2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37		
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main from 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 94.8 to 139.33 from 139.33 to 174.39 from 174.39 to 208.05 etaining wall towards Manjunathnagar Road from 33.65 to 65.72 from 65.72 to 85.6 from 85.6 to 114.06		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66 32.07 19.88 28.46	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37 177.64 269.95 809.76		
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main from 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 58.62 to 94.8 from 94.8 to 139.33 from 139.33 to 174.39 from 174.39 to 208.05 etaining wall towards Manjunathnagar Road from 33.65 to 65.72 from 65.72 to 85.6		2 2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37		
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main from 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 detaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 58.62 to 94.8 from 94.8 to 139.33 from 139.33 to 174.39 from 174.39 to 208.05 detaining wall towards Manjunathnagar Road from 33.65 to 65.72 from 65.72 to 85.6 from 85.6 to 114.06 from 114.06 to 138.56		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66 32.07 19.88 28.46 24.50	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37 177.64 269.95 809.76 852.60		
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main from 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 etaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 94.8 to 139.33 from 139.33 to 174.39 from 174.39 to 208.05 etaining wall towards Manjunathnagar Road from 33.65 to 65.72 from 65.72 to 85.6 from 85.6 to 114.06 from 140.06 to 138.56 from 138.56 to 163.84 from 163.84 to 186.41		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66 32.07 19.88 28.46 24.50 25.28	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37 177.64 269.95 809.76 852.60 878.28		90 F
S S S S S S S S S S S S S S S S S S S	construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges) P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12) for Retaining wall detaining wall towards Basaveshwara Nagar 1st Main from 33.88 to 46.47 from 46.47 to 61.53 from 61.53 td 75.83 from 75.83 to 100.62 detaining b/w Shivanagar 1st & 8th Main from 0 to 31.27 from 31.27 to 58.62 from 94.8 to 139.33 from 139.33 to 174.39 from 174.39 to 208.05 detaining wall towards Manjunathnagar Road from 33.65 to 65.72 from 65.72 to 85.6 from 85.6 to 114.06 from 114.06 to 138.56 from 138.56 to 163.84		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12.59 15.06 14.30 24.79 31.27 27.35 36.18 44.53 35.06 33.66 32.07 19.88 28.46 24.50 25.28	3.70 4.20 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	0.67 1.79 2.83 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	48.92 199.48 339.94 862.69 1088.20 950.19 1259.06 1547.06 1218.05 1171.37 177.64 269.95 809.76 852.60 878.28 784.13		90 F

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
5.05	KSRRB M2100-3.2: Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. II.Ordinary rock (not requiring blasting) B.Mechanical Means Depth upto 3m. MORTH Specification No.304 (Add 10% of Dewatering Charges)								
	(P.No.220, I.No.27.8 of PW; P&IWTD SR 2011-12)								
	For Retaining wall								
	Retaining wall towards Basaveshwara Nagar 1st Mail	n Road							
	From 75.83 to 100.62		2	24.79	5.80	0.90	258.81		
	Retaining b/w Shivanagar 1st & 8th Main								
	From 0 to 31.27		2		5.80	1.60	580.37		
	From 31.27 to 58.62		2	27.35	5.80	1.65	521.89		
	From 58.62 to 94.8		2	36.18	5.80	1.56	654.71	T. TROUBLE BY	
	From 94.8 to 139.33		2	44.53	5.80	1.44	· 741.25		
	From 139.33 to 174.39		2	35.06	5.80	1.07	433.13		
	From 174.39 to 208.05		2	33.66	5.80	1.19	464.64		
	Retaining wall towards Manjunathnagar Road								
	From 85.6 to 114.06		2	28.46	4.75	0.14	36.50		
	From 114.06 to 138.56		2	24.50	5.80	0.97	275.67		
	From 138,56 to 163,84		2	25.28	5.80	1.69	494.12		
	From 163.84 to 186.41		2	22.57	5.80	1.66	433.30		
							4894.40		
	Consider 95% of the Qnty				-	-	4649.68		
	Consider 40% of the Qty for Sl.No.5.04						4982.93		
						Total	9632.61. 9633.00		
	KSRRB M2100-4.2: Earthwork in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. III Hard rock -(blasting prohibited) A.Mechanical means MORTH Specification No.304 (Add 10% of Dewatering Charges)	Cum		::		Say		51.84	499374.72
	(P.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12)								
	Consider 5% of Quantity Sl.No.5						244.72		
						Say	245.00	324.00	79380.00
	KSRRB M2100-13. Plain Cement Concrete M15	Cum				27			
s f f	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100	Cum							
s f f	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open coundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12)	Cum							
i i i i i i i i i i i i i i i i i i i	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) For Retaining wall								
S	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open coundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main			15 10	1.50	0.15	7.17		
(with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open coundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18		2	15.18	1.58	0.15	7.17		
() () () () () () () () () ()	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18 From 15.18 to 33.88		2	18.70	2,30	0.15	12.90		
	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open coundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47		2	-					
() () () () () () () () () ()	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW.P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53		2 2 2	18.70 12.59 15.06	2.30 2.90	0.15	12.90 10.95		
() () () () () () () () () () () () () (with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53		2	18.70 12.59	2,30 2,90 3,70	0.15 0.15 0.15	12.90 10.95 16.72		
S	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open coundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83		2 2 2 2	18.70 12.59 15.06 14.30	2.30 2.90 3.70 4.20	0.15 0.15 0.15 0.15	12.90 10.95 16.72 18.02		
S	with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12) For Retaining wall Retaining wall towards Basaveshwara Nagar 1st Main From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53		2 2 2 2	18.70 12.59 15.06 14.30	2.30 2.90 3.70 4.20	0.15 0.15 0.15 0.15	12.90 10.95 16.72 18.02		

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
	From 58.62 to 94.8		2	36.18	5.80	0.15	62.95		
	From 94.8 to 139.33		. 2	44.53	5.80	0.15	77.48		
	From 139.33 to 174.39		2	35.06	5.80	0.15			
	From 174.39 to 208.05		2	33.66	5.80	0.15	58.57		
	Retaining wall towards Manjunathnagar Road								
	From 0 to 17.84 & from Ch 495 to Ch 560		2	77.84	1.58	0.15	-		
	From 17.84 to 33.65		2	15.81	2.30	0.15			
	From 33.65 to 65.72 .		2	32.07	2.90	0.15	27.90		
	From 65.72 to 85.6		2	19.88	3.70	0.15	22.07		
	From 85.6 to 114.06		-2	28.46	4.75	0.15	40.56		
	From 114.06 to 138.56:		2	24.50	5.80	0.15	42.63		
	From 138.56 to 163.84		. 2	25.28	5.80	. 0.15	43.99		
	From 163.84 to 186.41		2	22.57	5.80	0.15	39.27		
							735.01 735.50		
5.08	KSRRB M2100-20.2: Reinforced Cement Concrete in Open Foundation with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008. Case II: with Batching Plant, Transit Mixer and Concrete Pump MoRT&H Specification No. 1500, 1700 & 2100					Say	733.30	3724.92	2739678.66
	(P.No.224, I.No.27.37 of PW, P& IWTD SR 2011-12)								
	Retaining wall substructure								
	Retaining wall towards Basaveshwara Nagar 1st Mai	n Road							
	From 0 to 15.18		2	. 15.18	0.88	0.20	5.31		
	From 15.18 to 33.88		2	18.70	1.60	0.20	11.97		
			2	18.70	0.95	0.10	3.55		1.52
	From 33.88 to 46.47		2	12.59	2.20	0.20	11.08		
			2	12.59	1.33	0.25	8.34		
	From 46.47 to 61.53		2	15.06	3.00	0.20	18.07		
-	n		. 2	15.06	1.78	0.35	18.71		
-	From 61.53 to 75.83		2	14.30	3.50	0.20	20.02		
-	From 75.83 to 100.62	-	2	14.30 24.79	5.10	0.40	75.86		
-	11011 15.83 to 100.62	-	2	24.79	2.98	0.55	81.13		
	Retaining b/w Shivanagar 1st & 8th Main			24.13	2.00	0.00	01.10		
	From 0 to 31.27		2	31.27	5.10	0.30	95.69		
1	1011 0 00 01.27	_	2	31.27	2.98	0.55	102.33	-	
	From 31.27 to 58.62		2	27.35	5.10	0.30	83.69		
		The Control	. 2	27.35	2.98	0.55	89.50		
1	From 58.62 to 94.8		2	36.18	5.10	0.30	110.71		
			2	36.18	2.98	0.55	118.40		
1	From 94.8 to 139.33		2	44.53	5.10	0.30	136.26		
			2	44.53	2.98	0.55	145.72		Control of the Control
I	From 139.33 to 174.39		2	35.06	5.10	0.30	107.28		
-			2	35.06	2.98	0.55	114.73		
1	From 174.39 to 208.05		2	33.66	5.10	0.30	103.00		
T	Potoisis W. J. M. J. anh. B. J.	-	2	33.66	2.98	0.55	110.15		
	Retaining wall towards Manjunathnagar Road		2	77.84	0.88	0.20	27.24		
	From 0 to 17.84 & from Ch 495 to Ch 560 From 17.84 to 33.65	-	2	15.81	1.60	0.20	10.12		
1	10111 17.64 to 33.63		2	15.81	0.95	0.10	3.00	-	
F	rom 33.65 to 65.72		2	32.07	2.20	0.20	28.22		
			2	32.07	1.33	0.25	21.25	TO THE REAL PROPERTY.	
F	rom 65.72 to 85.6		2	19.88	3.00	0.20	23.86		
			2	19.88	1.78	0.35	24.70		
F	rom 85.6 to 114.06		2	28.46	4.05	0.30	69.16		
			2	28.46	2.40	0.45	61.47		
	rom 114.06 to 138.56	200	2	24.50	5.10	0.30	74.97		AL AMEDICAL
F		Manual Property	2	24.50	2.98	0.55	80.18		
		-				THE RESERVE AND DESCRIPTION OF THE PERSON OF			
	rom 138.56 to 163.84		2	25.28	5.10	0.30	77.36		
F	rom 138.56 to 163.84 rom 163.84 to 186.41			25.28 25.28 22.57	5.10 2.98 5.10	0.30 0.55 0.30	77.36 82.73 69.06		

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs	Amount Rs.
							2322.15		
						Say	2322.50	4918.32	11422798.
5.09	KSRRB 2200-5.18. Design mix M35 with OPC cement @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5 m height					15		i i	
	(P.No.228, I.No.28.7.18 of PW, P& IWTD SR 2011-12								
	Retaining wall							and \$16.00 Sec.	
	Retaining wall towards Basaveshwara Nagar 1st Mai	n Road							
	From 0 to 15.18	- 10-10-	. 2	15.18	0.20	0.91	5.53		
-	From 15.18 to 33.88		2	18.70	0.25	2.19	20.43	10000	
	From 33.88 to 46.47		2	12.59	0.33	3.12	25.53		
-	From 46.47 to 61.53		2	15.06	0.38	4.14	46.76		
	From 61.53 to 75.83	10000	2	14.30	0.40	5.00	• 57.20		
	From 75.83 to 100.62		2	24.79	0.58	5.00	142.54		
	Retaining b/w Shivanagar 1st & 8th Main		-			•			
_	From 0 to 31.27		. 2	31.27	0.58	5.00	179.80		
	From 31.27 to 58.62		2	27.35	0.58	5.00	157.11		
	From 58.62 to 94.8 From 94.8 to 139.33		2	36.18	0.58	5.00	208.04	22.5	
-	From 139.33 to 174.39	-	2	35.06	0.58	5.00	255.79		
-	From 174.39 to 208.05	-	2	33.66	0.58	5.00	201.39 193.55		
_	Retaining wall towards Manjunathnagar Road-	-	4	33.00	0.00	5.00	193.55		
	From 0 to 17 ₁ 84 & from Ch 495 to Ch 560		2	77.84	0.20	0.95	20.50		
	From 17.84 to 33.65		2	15.81	0.25	1.85	29.58		
	From 33.65 to 65.72		2	32.07	0.23	3.41	70.98		
_	From 65.72 to 85.6		2	19.88	0.38	4.19	62.40		
_	From 85.6 to 114.06		2	28.46	0.53	5.00	149.27		rin 4
F	From 114.06 to 138.56		2	24.50	0.58	5.00	140.88		
F	From 138.56 to 163.84		2	25.28	0.58	5.00	145.21		
F	From 163.84 to 186.41	7	2	22.57	0.58	5.00	129.65		
I	Orain side wall on both sides of Retaining wall								
	owards Basaveshwara Nagar		2	100.62	9.20	0.60	24.15		
	/w Shivanagar 1st & 8th Main	-	2	208.05	0.20	0.60	49.93		
- 1	owards Manjunathnagar Road		. 2	186.41	0.20	0.60	44.74		
+	*	-	-				2355.07		
+		-				Say	2355.50	5489.64 12	2930847.02
gr ag co	SRRB 2200-5.19. Design mix M35 with OPC ment @ 390kgs, with 20mm and down size graded ranite metal coarse aggregates @ 0.68cum and fine ggregates @ 0.45cum, with superplastisiser @ 3lts onfirming to IS9103-1999 Reaffirmed-2008 i) For eight, upto 10m	Cum							
	No.228, I.No.28,7.19 of PW, P& IWTD SR 2011-12)								
-	etaining wall								AND REAL PROPERTY.
	etaining wall towards Basaveshwara Nagar 1st Main	Road							
-	rom 61.53 to 75.83		2	14.30	0.40	0.13	1.49		
	om 75.83 to 100.62		2	. 24.79	0.58	0.95 .	27.08		
_	etaining b/w Shi vanagar 1st & 8th Main om 0 to 31,27	-	-	01.00	0.70	1.00			
-	om 0 to 31.27 om 31.27 to 58.62	-	2	31.27 27.35	0.58	1.65	59.33		
	om 58.62 to 94.8	-	2	36.18	0.58	1.61	53.31		
-	om 94.8 to 139.33	1	2	44.53	0.58	1.49	76.05		
	om 139.33 to 17 4.39		2	35.06	0.58	1.12	44.96		
	om 174.39 to 208.05		2	33.66	0.58	1.24	48.00		
Re	taining wall towards Manjunathnagar Road								30.00
-	om 85.6 to 114.06	20	2	28.46	0.53	0.29	8.52		
Fre	om 114 06 to 138 56		2	24.50	0.58	1.02	28.74		
Fre		-	The state of the s						THE RESERVE OF THE PARTY OF THE
Fre	om 138.56 to 16.3.84		2	25.28	0.58	1.74	50.44		
Fre Fre			-	25.28 22.57	0.58 0.58	1.74	.50.44 44.25		

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in R	Rs Rs
			2						y See the
	From 0.00 to 208.05m		2				1		
			2			0.23			
	From 0.00 to 186.41m		2		0.15	1.18		National Property	
		-	2	186.41	0.94	0.23	78.64		
							892.53		
		-				Say	893.00	5612.7	6 50121
5.11	KSRRB M2200 - 6. Supplying, fitting and placing TMT bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200	3							
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)								-
	Consider 90kg/cum for Sl.No. 5.08, 5.09 , 5.10						501.39		
	ounded bong-cuit in thirty, they save your					Sav	501.50	68274.7	3423976
						- 14-44			
	KSSRB M2200-9. Providing and laying Filter Media with granular materials / stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification complete as per specifications MORTH Specification No. 710.1.4 of IRC: 78 & 2200								
	(P.No.229, I.No.28.13 of PW,P&IWTD S.R 2011-12)			15.50		11			60 P (6
	Retaining wall								
	Retaining wall towards Basaveshwara Nagar 1st Mai	n Road							
-	From 0 to 15.18		2	15.18	0.60	0.41	7.47		
	From 15.18 to 33:88		2	18.70	0.60	1.69	. 37.81		1 18
_	From 33.88 to 46.47		2	12.59	0.60	2.62	39.58		
_	From 46.47 to 61.53		2	15.06	0.60	3.64	65.78		
	From 61.53 to 75.83		2	14.30	0.60	4.63	79.45		
-	From 75.83 to 100.62		2	24.79	0.60	5.45	162.13		
	Retaining b/w Shivanagar 1st & 8th Main		-						
	From 0 to 31.27		2	31.27	0.60	6.15	230.77		
	From 31.27 to 58.62		2	27.35	0.60	6.20	203.32		
THE RESERVE	From 58.62 to 94.8		2	36.18	0.60	6.11	265.27		
-	From 94.8 to 139.33		2	44.53	0.60	5.99	319.81		
_	From 139.33 to 174.39		2	35.06	0.60	5.62	236.23		
	From 174.39 to 208.05		2	33.66	0.60	5.74	231.85		S OF OUR
	Retaining wall towards Manjunathnagar Road					0.15			
-	From 0 to 17.84 & from Ch 495 to Ch 560	-	2	77.84	0.60	0.45	42.03		
	rom 17.84 to 33.65		2	15.81	0.60	1.35	25.61		
-	From 33.65 to 65.72		2	32.07	0.60	2.91	111.80		
-	rom 65.72 to 85.6		2	19.88	0.60	3.69	87.91		
	rom 85.6 to 114.06		2	28.46	0.60	4.79	163.42		
	rom 114.06 to 138.56		2	24.50	0.60	5.52	162.29		
	rom 138.56 to 163.84		2	25.28	0.60	6.24	189.14		
F	rom 163.84 to 186.41	100	2	22.57	0.60	6.21	168.06		
1							2829.74	0.00	000710
-	•		-			Say	2830.00	665.28	1882742.
w an sp	SRRB M2200 - 8.1. Back filling behind abutment, ing wall and return wall complete as per drawing and Technical Specification complete as per pecifications. A. Granular Material MORTH pecification No. 710.1.4 of IRC: 78 & 2200								

60 f 10

Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount Rs.
	From 0 to 15.18		2	15.18	0.60	0.41	7.47		
	From 15.18 to 33.88		2	18.70	0.60	1.69	37.81		-10
	From 33.88 to 46.47		2	-	0.60	2.62	39.58		
	From 46.47 to 61.53		2		0.60	3.64	65.78		
	From 61.53 to 75.83		. 2		0.60	4.63	79.45		
e de la cons	From 75.83 to 100.62		2	24.79	0.60	5.45	162.13	Eletota et	
	Retaining b/w Shivanagar 1st & 8th Main	-							
-	From 0 to 31.27 From 31.27 to 58.62	-	2	31.27	0.60	6.15	230.77		
	From 58.62 to 94.8	-	2	27.35 36.18	0.60	6.20	203.32 265.27		
	From 94.8 to 139.33		2	44.53	0.60	5.99			
	From 139.33 to 174.39		2	35.06	0.60	5.62	· 319.81		
	From 174.39 to 208.05		. 2	33.66	0.60	5.74	231.85		
	Retaining wall towards Manjunathnagar Road	1		33.00	0.00	0.14	201.00		
	From 0 to 17.84 & from Ch 495 to Ch 560	-	2	77.84	0.60	0.45	42.03		
	From 17.84 to 33.65		2	15.81	0.60	1.35	25.61		
Maj	From 33.65 to 65.72		2	32.07	0.60	2.91	111.80		
	From 65.72 to 85.6		2	19.88	0.60	3.69	87.91		
	From 85.6 to 114.06		2	28.46	0.60	4.79	163.42		
	From 114.06 to 138.56		2	24.50	0.60	5.52	162.29		
	From 138.56 to 163.84		2	25.28	0.60	6.24	189.14		
	From 163.84 to 186.41		2	22.57	0.60	6.21	168.06		
							2829.74		
_						Say	2830.00	275.40	779382.00
	watering with lead upto 50m and lift upto 1.5m neluding cost of all labour complete as per					and I			
li S	ncluding cost of all labour complete as per specfications.								
s (ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12)								
i s	ncluding cost of all labour complete as per specfications.		2	15.18	0.60		. 12.75		
i s	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai		2 2	15.18 15.18	0.60	0.70	12.75		- 10
() F	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18		2 2 2 2				6.07		7. 859
() F	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18		2	15.18	0.40	0.70 0.50	6.07 17.95		N/2
() F	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18		2 2	15.18 18.70	0.40	0.70 0.50 0.80 0.55	6.07 17.95 17.48		100
(F	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18		2 2 .2 .2 .2	15.18 18.70 18.70	0.40 0.60 0.85	0.70 0.50 0.80	6.07 17.95		n - 300
I S	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 83.88		2 2 .2 .2 .2	15.18 18.70 18.70 18.70	0.40 0.60 0.85 0.25	0.70 0.50 0.80 0.55 1.69	6.07 17.95 17.48 15.75		10 EV
I S S S S S S S S S S S S S S S S S S S	ncluding cost of all labour complete as per specifications. P.No.6. I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88		2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59	0.40 0.60 0.85 0.25 0.60 1.00 0.40	0.70 0.50 0.80 0.55 1.69 0.95	6.07 17.95 17.48 15.75 14.35 15.74 26.39		
i s s s s s s s s s s s s s s s s s s s	ncluding cost of all labour complete as per specfications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 83.88		2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59	0.40 0.60 0.85 0.25 0.60 1.00	0.70 0.50 0.80 0.55 1.69 0.95 0.63	6.07 17.95 17.48 15.75 14.35 15.74		
i s s s s s s s s s s s s s s s s s s s	ncluding cost of all labour complete as per specifications. P.No.6. I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41		
() FF	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26		
() FF	ncluding cost of all labour complete as per specifications. P.No.6. I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 15.06 14.30	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88		
() F	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 15.06 14.30 14.30	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03		
F F	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 83.88 From 33.88 to 46.47 From 46.47 to 61.53		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66		
F F F	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16		
F F	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 83.88 From 33.88 to 46.47 From 46.47 to 61.53		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51		
Final	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16		
F F F F F F F F F F F F F F F F F F F	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83 From 75.83 to 100.62		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97		
Fi Fi Re	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83 From 75.83 to 100.62		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79 24.79 31.27	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97		
F F F F F F F F F F F F F F F F F F F	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83 From 75.83 to 100.62		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14		
Final Reference of the second	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83 From 75.83 to 100.62		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 24.79 24.79 24.79 31.27	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97		
Final Reference of the second	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83 From 75.83 to 100.62		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79 31.27 31.27 31.27	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40		
Fr Fr Fr	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 75.83 to 100.62 Petaining b/w Shivanagar 1st & 8th Main From 0 to 31.27 From 31.27 to 58.62		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 24.79 24.79 31.27 31.27 31.27 27.35	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31		
Fr Fr Fr	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 61.53 to 75.83 From 75.83 to 100.62	n Road	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 24.79 24.79 24.79 31.27 31.27 31.27 27.35 27.35	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35 0.78	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31 120.82		
Fr Fr Fr	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 75.83 to 100.62 Petaining b/w Shivanagar 1st & 8th Main From 0 to 31.27 From 31.27 to 58.62	n Road	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 24.79 24.79 24.79 31.27 31.27 31.27 27.35 27.35 27.35 36.18 36.18	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35 0.78 6.15	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31 120.82 762.45		
Fr Fr	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 75.83 to 100.62 Petaining b/w Shivanagar 1st & 8th Main From 0 to 31.27 From 31.27 to 58.62 From 58.62 to 94.8	n Road	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 24.79 24.79 24.79 31.27 31.27 31.27 27.35 27.35 27.35 27.35 36.18 36.18	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35 0.78 6.15 1.35 0.78 6.11	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31 120.82 762.45 58.61 159.83 994.77		
Fr Fr	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 75.83 to 100.62 Petaining b/w Shivanagar 1st & 8th Main From 0 to 31.27 From 31.27 to 58.62	n Road	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79 24.79 31.27 31.27 31.27 27.35 27.35 27.35 27.35 36.18 36.18 36.18 44.53	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35 0.78 6.15 1.35 0.78 6.11 1.35	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31 120.82 762.45 58.61 159.83 994.77 72.14		
Fr Fr	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 75.83 to 100.62 Petaining b/w Shivanagar 1st & 8th Main From 0 to 31.27 From 31.27 to 58.62 From 58.62 to 94.8	n Road	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 24.79 24.79 24.79 24.79 31.27 31.27 31.27 27.35 27.35 27.35 36.18 36.18 34.53 44.53	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35 0.78 6.15 1.35 0.78 6.20 1.35 0.78 6.20 1.35 0.78	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31 120.82 762.45 58.61 159.83 994.77 72.14 196.71		
Fr. Fr. Fr. Fr.	ncluding cost of all labour complete as per specifications. P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12) Retaining wall towards Basaveshwara Nagar 1st Mai From 0 to 15.18 From 15.18 to 33.88 From 33.88 to 46.47 From 46.47 to 61.53 From 75.83 to 100.62 Petaining b/w Shivanagar 1st & 8th Main From 0 to 31.27 From 31.27 to 58.62 From 58.62 to 94.8	n Road	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15.18 18.70 18.70 18.70 12.59 12.59 12.59 15.06 15.06 14.30 14.30 14.30 24.79 24.79 24.79 31.27 31.27 31.27 27.35 27.35 27.35 27.35 36.18 36.18 36.18 44.53	0.40 0.60 0.85 0.25 0.60 1.00 0.40 0.60 1.25 0.65 0.60 1.70 1.10 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60 2.85 2.25 0.60	0.70 0.50 0.80 0.55 1.69 0.95 0.63 2.62 1.05 0.68 3.64 1.10 0.70 4.63 1.35 0.78 5.45 1.35 0.78 6.15 1.35 0.78 6.15 1.35 0.78 6.20 1.35 0.78 6.20 1.35 0.78	6.07 17.95 17.48 15.75 14.35 15.74 26.39 18.98 25.41 71.26 18.88 34.03 145.66 40.16 109.51 607.97 50.66 138.14 865.40 44.31 120.82 762.45 58.61 159.83 994.77 72.14		

SI. No.	Description of work	Un	iit	No.	Lengt (m)	gth Brea) (n	adth m)	Depth (m)	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	y Rate in	Rs. Amoun
				2	2 35.0	.06	2.25	5.6	62 885.88	10	
- (-)	From 174.39 to 208.05			2	_		0.60	-			
				2			2.85				-
			1	. 2			2.25	5.7		THE RESERVE AND ADDRESS OF THE PARTY OF THE	
	Retaining wall towards Manjunathnagar Road	5	T		TOPEN	12			1 000.1	* :	1 1
	From 0 to 17.84 & from Ch 495 to Ch 560		T	2		84	0.60	0.70	0 65.39		
			I	2			0.40	0.50			
-	From 17.84 to 33.65			2			0.60	0.80			
-				2	-		0.85	0.55			
_			ST Y	2			0.25	1.35	-		
-	From 33.65 to 65.72			2	-		0.60	0.95			
-			1	2			1.00	0.63		-	
-				2			0.40	2.91			
	From 65.72 to 85.6			2		-	0.60	1.05		-	
-			1	2	-		1.25	0.68			
	ALLES TO THE STATE OF THE STATE		1	2	19.88		0.65			A STATE OF THE PARTY OF THE PAR	
F	From 85.6 to 114.06 ·		+	2	28.46		0.60	3.69	1	-	
			1	2	28.46			1.25			
	<u> </u>		+	2	28.46		2.10	0.73			
F	From 114 06 to 120 50		+	.2			1.50	4.79			
	1000	1-	+	-	24.50		0.60	1.35			
		-	+	2	24.50		2.85	0.78	200.20		
F	From 138.56 to 163.84		-	2 .	24.50		2.25	5.52			
	1011 100.00 to 100.04	-	+	2	25.28		.60	1.35	40.95		
		1	1	2	25.28		.85	0.78	111.67		
F	From 163.84 to 186.41	1	1	2	25.28		.25	6.24	709.29	AND THE REAL PROPERTY.	HENRAL ST
1	1011: 100.04 to 100.41	1	1	2	-22.57		.60	1.35	36.56		
1			-	2	22.57		.85	0.78	99.70		
1		-	-	2	22.57	2.2	25	6.21	630.21		1 1 1 m
-		4				100		Aurar	11396.65	200000000000000000000000000000000000000	
-				1				Say	11397.00	58.32	664673.0
Ca	orcluding cost of loading, unloading and stacking complete as per specifications. MoRT&H Chapter 1 ase-I: Surface Road No.141&147 of PW, P&IWTD S.R-2011-12)					•					
Qt	ty= Sl.No.5.01x0.075	1		1							
TOU	ty = Sl.No.5.01x0.075 ty = Sl.No.5.02x0.075	-					-		367.54	M-12/19/27	
Ot	y = SI.No 5.02x0.075 .								367.54		
de	xy = Sl.No. 5.03+5.04+5.05-5.14								20038.23		
+						ASSES			20773.30		
Pro	oviding and fixing RCC Precast cover slab of	1							20773.50	123.34	2562203.49
usir stee char both	Omm thick for drain in cement concrete 1:1.5:3 ing graded granite jelly 20mm and down size with el reinforcement, including form work, lift arges, curing and concrete finished surfaces on h sides etc, complete and as per the directions of gineer in-Charge.										
	ta Rate)		-				+			-	
Drai	in cover on both sides of Retaining wall					- :	1.	-			
Tow	vards Basaveshwara Nagar	Egilia	2	11	00.62	0.60	-	-	120.74	-	
B/w	Shivanagar 1st & 8th Main		2	-	08.05	0.60	-		249.66	-	
	vards Manjun athnagar Road		2	-	86.41	0.60	-		223.69		
		A TO			70.	0.00			594.10		
							5	Say	594.50	1465.00	870942.50
Prov	viding and fixing of MS Grating of size 260mm? 60mm including cost of materials, labour charges plete as per drawing & as per direction of the ineer-in-charge of the work.	Nos.								1466.00	B10042.00
Engir				A STATE OF THE PARTY OF THE PAR	ALCOHOLD STREET	THE PERSON NAMED IN					on miles on the D
Engii (Data	a Rate)										
Engir (Data Towa	a Rate) ards Basaveshwara Nagar		20						20.00		
Engir (Data Towa B/w S	a Rate)		20					**	20.00 42.00		

No.	Description of work	Un	At P	No.	Length (m)	h Breadt (m)	CP (1) 1 (C)	epth (m)	Quanti	ity	Rate in	and the second second	iou Rs
					No.	1			99	0.00		-+-	_
5.18	POODD Mood on Day 11 1 1 D				10			Say	-	0.00	276	67.00 27	739
	KSSRB M220 - 8. Providing weep holes in Bri masonry / Plain / Reinforced concrete abutmer wing wall / return wall with 100mm dia AC pip extending through the full width of the structu with slope of 1V:20H towards drawing for Complete as per drawing and Technic Specifications complete as per specification MORTH Specification No. 2706 & 2200	nt, pe, ure ce.											
176	P.No 229, INo 28.10 of PW,P&IWTD S.R 2011-12)	-	+	+			-	-		1			
	Towards Basaveshwara Nagar		6	04			-	-			ARCA IV		
	B/w Shivanagar 1st & 8th Main		124			-	-		604.0		1		
	Towards Manjunathnagar Road		111		-		-		1248.0		- 10 gc		
			+-	-		-	-	-	2970 0	_			
_	*						1	Say	2970.00	_	1.40	70 140	-
6	Anti carbonate painting with approved colour a per specifications including cost of materials, labou etc., complete as per specifications and as directed by the Engineer in Charge. (Market rate)	ır						343			148.	.23 440:	240
	(Market rate) Retaining wall towards Basaveshwara Nagar 1st Ma	77:0							-	1			N
Ţ	From 0 to 15.18	in Road	_	-	- 10				Company of the second				A
	From 15.18 to 33.88	1		-	15.18			.91	27.63				
	From 33.88 to 46.47	1.	-	_	18.70		-	.19	81.72	_	4 7 6 10		
	From 46.47 to 61.53	-	-	-	12.59		-	.12	78.56	-			
F	From 61.53 to 75.83		_	_	15.06		-	14	124.70	-	-110 -558		
F	From 75.83 to 100.62	-	_	_	24.79	-	-	13	146.72	_			
R	Retaining b/w Shivanagar 1st & 8th Main			1	4.10	-	5	95	295.00			4	
F	From 0 to 31.27		2	1 3	31.27		6.6	05	415 90	-			
	rom 31.27 to 58.62		2	_	27.35		6.7		415.89 366.22	-			
	rom 58.62 to 94.8		2	-	36.18		6.6		478.30	-		1	
	rom 94.8 to 139.33		2	4	14.53		6.4		577.55	-			-
	rom 139.33 to 174.39		2	-	35.06		6.1	-	428.78	No.		100	
	rom 174.39 to 208.05		2	3	3.66	-	6.2	-	420.08		E SE		
FI	etaining wall towards Manjunathnagar Road rom 0 to 17.84 & from Ch 495 to Ch 560									45.15	Size		A
Fr	rom 17.84 to 33.65		2		7.84		0.9	_	147.90				
Fr	rom 33.65 to 65.72		2		5.81		1.88	-	58.50				
	om 65.72 to 85.6	-	2	-	2.07		3.41	-	218.40				
	om 85.6 to 114.06	-	-	-	9.88		4.19	-	166.40				
	om 114.06 to 138.56	-	2	-	8.46		5.29		300.82				8
Fro	om 138.56 to 163.84		2	_	4.50 5.28		6.02	-	294.98				
Fre	om 163.84 to 186.41		2		2.57		6.74	-	340.52		-		
1					.07		6.71	-	302.66				
-		No.					Say	-	271.50		200.00	1054300.	0/
TEC				N. Carlo					11 2100	The same	200.00	1004000.	U
shad	RRB 800-1. Painting two coats after filling the face with synthetic enamel paint in approved des on new plastered concrete surfaces, with terials, labour complete as per specifications. PRTH Chapter 8	Sqm											
(P.N	No.191, I.No. 24.1 of PW,P&IWTD SR 2011-12)			100		7					-		-
	sh barrier			You -									-
From	m 0.00 to 100.62m m 0.00 to 208.05m			100.6			1.55	65	23.84			25.77.2	1
Fror	m 0.00 to 186.41m		_	208.0	-		1.55	-	89.91				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 6	X2	186.4	1		1.55		55.74				1
			+		1.		Cari		69.50 69.50		10.10	1400404	-
Speci	RM M2700-4. Providing fitting and fixing mild I railing complete as per drawing and technical ification. Complete as per MORTH Specification 2703.2, 1900	mt					Saý	306	9.50		48.49	148846.1	9

SI. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
	Crash barrier								
	From 0.00 to 100.62m		. 2	100.62			201.24		
	From 0.00 to 208.05m		2	208.05			416.10		·
	From 0.00 to 186.41m		1 2	186.41	4.00	Décit	372.82		
							990.16		
						Say	990.50	2762.64	2736394.92
* **			•						79549075.65
5.22	Miscellaneous & Rounding off		45						924.35
		K 12 +						TOTAL	79550000.00

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Construction of Ramp

SI. No.	Description of work	Uni	No.	Length (m)	Bread th (m)	Depth (m)	Quantity	Rate in Rs.	Amount Rs.
6.01	KSRRB 300-44 Scarifying top bituminous urface or surface dressing or premix carpe including picking up scarified materials, stacking cold serviceable materials by manual mean including cost of all labour charges complete as pespecifications. MORTH Chapter 3	et of							
	(P.No. 155, 1.No. 19.50 of PW, P&IWTD SR 2011-12)								
	For Ramp	-							
	Ramp towards Basaveshwara Nagar 1st Main Road	1							
	From 0 to 15.18		· 1	15.18	16.00	-	242.88		
	From 15.18 to 33.88		1	18.70	16.00		299.20		
	From 33.88 to 46.47		1	12.59	16.00		201.44		
_	From 46.47 to 61.53		1	15.06	16.00		240.96		
_	From 61.53 to 75.83		1	14.30	16.00		228.80		
	From 75.83 to 100.62		1	24,79	16.00		- 396.64		
	Ramp b/w Shivanagar 1st & 8th Main								
	From 0 to 31,27		1	31.27	16.00		500.32	1000	
	From 31.27 to 58.62		. 1	27.35	16.00		437.60		2000
	From 58.62 to 94.8		1	36.18	16.00		578.88		
	From 94.8 to 139.33		1	44.53	16.00		712.48		
	From 139.33 to 174.39		1	35.06	16.00		560.96		
1	From 174.39 to 208.05		1	33.66			538.56		
1	Ramp towards Manjunathnagar Road								
	From 0 to 17.84 & from Ch 495 to Ch 560 '.		. 1	77.84	16.00	-	1245.44		
	From 17.84 to 33.65		1	15.81	16.00		252.96		
I	From 33.65 to 65.72		1	32.07	16.00		513.12		
F	From 65.72 to 85.6		1	19.88	16.00		318.08		
	From 85.6 to 114.06		1	28.46	16.00		455.36		
_	From 114.06 to 138.56		1	24.50	16.00		392.00		
	From 138.56 to 163.84		1	25.28	16.00		404.48		_
-	rom 163.84 to 186.41		1	22.57	16.00		361.12		
							8881.28		
-						Say	8881.50	19.33	171697.
p se cc	SRRB 300-45: Scarifying stone metal crust 0mm to 100mm thick with pick axes along with remix carpet / surface dressing and stacking of old erviceable materials by manual means including ost of all labour charges complete as per pecifications. MORTH Chapter 3						·		
(F	No.155, I.No.19.51 of PW, P&IWTD SR 2011-12)			11.					
Q	ty same as Sl. No.6.01		re				8881.50	38.66	343394.
fo te- co	SRRB M2100-2.1 Earthwork in excavation for undation of structures as per drawing and chnical specifications. Including setting out, astruction of shoring and bracing, removal of the umps and other deleterious matter, dressing of the and bottom and backfilling with approved	Cum							
ma Me Sp	aterial complete as per specifications, B. echanical Means (i) Depth upto 3m MORTH ecification No. 304 (Add 10% dewatering arges)								
ma Me Sp ch	echanical Means (i) Depth upto 3m MORTH ecification No. 304 (Add 10% dewatering								

SI. No.	Description of work	Unit	No.	Length (m)	Bread th (m)	Depth (m)	Quantity	Rate in Rs.	Amount Rs.
	From 0 to 15.18		1	15.18	16.00	0.91	221.02		
	From 15.18 to 33.88		1	18.70	16.00	2.19	653.75		
	From 33.88 to 46.47		1	12.59	16.00	3.00	604.32	Element of	9 Enteres
	From 46.47 to 61.53		1	15.06	16.00	3.00	722.88		
	From 61.53 to 75.83	-	1	14.30	16.00	3.00	686.40		
	From 75.83 to 100.62		1	24.79	16.00	3.00	1189.92		
-	Ramp b/w Shivanagar 1st & 8th Main	-			1		• 1		
	From 0 to 31.27	-	1	31.27	16.00	3.00	1.500.96		Vieto SII SA
	From 31.27 to 58.62	-	1			3.00	1310.61		
-			1	36.18		3.00	1736.64		
	From 58.62 to 94.8	-	-			NAME AND ADDRESS OF THE OWNER, WHEN			
	From 94.8 to 139.33		1		-	3.00	2133.88		
	From 139.33 to 174.39		1			3.00	1680.08		
	From 174.39 to 208.05		1	33.66	16.00	3.00	1615.68		
	Ramp towards Manjunathnagar Road								
	From 0 to 17.84 & from Ch 495 to Ch 560		. 1	77.84	16.00	0.95	1183.17		
LA DIER	From 17.84 to 33.65		1	15.81	16.00	1.85	467.98		
	From 33.65 to 65.72		1	32.07	16.00	3.00	1536.79		
	From 65.72 to 85.6	1	1	19.88	16.00	3.00	952.65		
	From 85.6 to 114.06		1	28.46	16.00	3.00	1363.80		
	From 114.06 to 138.56		1	24.50	16.00	3.00	1176.00		
	From 138.56 to 163.84		1	25.28	16.00	3.00	1211.42		
-	From 163.84 to 186.41		1	22.57	16.00	3.00	1081.55		
	From 163.84 to 186.41		1	22,01	10.00	3.00			
-		No. (4)				0	23029.50	1 10 00	0.1000
-					-	Say	23030.00	40.99	94390
	KSRRB M2100-2.2 Earthwork in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges)		1						
1	(P.No. 220, I.No. 27.5 of PW, P&IWTD SR 2011-12)								
_	For Ramp								
	Ramp towards Basaveshwara Nagar 1st Main Road								
	From 33.88 to 46.47		1	12.59	16.00	0.12	24.17		
	From 46.47 to 61.53		i	15.06	16.00	1.14	274.69		
_	From 61.53 to 75.83		1	14.30	16.00	2.13	487.34		
-	From 75.83 to 100.62		1	24.79	16.00	,2.95	1170.09		
-	Ramp b/w Shivanagar 1st & 8th Main			T 12-34					
_	From 0 to 31.27		1	31.27	16.00	3.00	1500.96		_
-		-	1	27.35	16.00	3.00	1310.61		
	From 31.27 to 58.62	-	-						
	From 58.62 to 94.8		1	36.18	16.00	3.00	1736.64		
1	From 94.8 to 139.33		1	44.53	16.00	3.00	2133.88	-	
1			1	35.06	16.00	3.00	1680.08		
I	From 139.33 to 174.39		11	33.66	16.00	3.00	1615.68		
I	From 174.39 to 208.05		1		The second second		1		
I			1						15711791
I	From 174.39 to 208.05		1	32.07	16.00	0.41	207.81		
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72			32.07 19.88	16.00 16.00	0.41 1.19	207.81 376.92		
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6		1						
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6 From 85.6 to 114.06		1	19.88 28.46	16.00 16.00	1.19 2.29	376.92 1040.50		
H H H H H H	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6 From 85.6 to 114.06 From 114.06 to 138.56		1 1 1 1	19.88 28.46 24.50	16.00 16.00 16.00	1.19 2.29 3.00	376.92 1040.50 1176.00		
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6 From 85.6 to 114.06 From 114.06 to 138.56 From 138.56 to 163.84		1	19.88 28.46 24.50 25.28	16.00 16.00 16.00 16.00	1.19 2.29 3.00 3.00	376.92 1040.50 1176.00 1211.42		
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6 From 85.6 to 114.06 From 114.06 to 138.56 From 138.56 to 163.84		1 1 1 1	19.88 28.46 24.50	16.00 16.00 16.00	1.19 2.29 3.00	376.92 1040.50 1176.00 1211.42 1081.55		
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6 From 85.6 to 114.06 From 114.06 to 138.56 From 138.56 to 163.84 From 163.84 to 186.41		1 1 1 1	19.88 28.46 24.50 25.28 22.57	16.00 16.00 16.00 16.00	1.19 2.29 3.00 3.00 3.00	376.92 1040.50 1176.00 1211.42 1081.55 17028.35		
I I I I I I I I I I I I I I I I I I I	From 174.39 to 208.05 Ramp towards Manjunathnagar Road From 33.65 to 65.72 From 65.72 to 85.6 From 85.6 to 114.06 From 114.06 to 138.56 From 138.56 to 163.84		1 1 1 1	19.88 28.46 24.50 25.28	16.00 16.00 16.00 16.00	1.19 2.29 3.00 3.00	376.92 1040.50 1176.00 1211.42 1081.55	46.818	478362

THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	Description of work		No.	Length (m)	Bread th (m)		. Quantity	Rate in Rs.	Amount in
6.05	KSRRB M2100-3.2: Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. II.Ordinary rock (not requiring blasting) B.Mechanical Means Depth upto 3m. MORTH Specification No.304 (Add 10% of Dewatering Charges)								
	(P.No.220, I.No.27.8 of PW, P&IWTD SR 2011-12)								
	For Ramp .								
	Ramp b/w Shivanagar 1st & 8th Main								
	From 0 to 31.27 .		1	31.27	16.00		325.21		Y SOLUTION STATE
	From 31.27 to 58.62		1	27.35	16.00	0.70	304.13		
	From 94.8 to 139.33		1 1	36.18 • 44.53	16.00	0.61	353.12		
-	From 139.33 to 174.39	-	1	35.06	16.00	0.48	345.55		
-	From 174.39 to 208.05		1 1	33.66	16.00	0.12	· 64.51		
	Ramp towards Manjunathnagar Road		-	30.00	10.00	0.24	120.20		
	From 114.06 to 138.56		1	24.50	16.00	0.02	7.84		
]	From 138.56 to 163.84		1	25.28	16.00	0.73	297.29		
1	From 163.84 to 186.41		1	22.57	16.00	0.71	254.59		
							2081.50		The state of the state of
(Consider 95% of the Qnty						1977.42		THE STATE OF
- 10	Consider 40% of the Qty from Sl.No.6.04						6811.34		
-		-	-		Te	otal Qty	8788.76		
+		-	-			Say	8789.00	51.84	455621.76
f	SRRB M2100-4.2: Earthwork in excavation for Coundation of structures as per drawing and echnical specifications, including setting out.	Jum .							
for the state of t	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of ides and bottom and backfilling with approved laterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical deans MORTH Specification No.304 (Add 10% of	Jum .							
for the constant of the consta	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges)	Jum .							
for the constant of the consta	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical deans MORTH Specification No 304 (Add 10% of ewatering Charges)	Jum .					104.07		
for the constant of the consta	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges)	Jum .				Say	104.07	324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved laterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical leans MORTH Specification No.304 (Add 10% of ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Si.No. 6.05 SRRB M400-7 Construction of granular subsesse by providing coarse graded material, reading in uniform layers with motor grader one epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For adding I Material.							324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, construction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Si.No. 6.05 SRRB M400-7 Construction of granular subsection in uniform layers with motor grader on the epared surface, mixing by mix in place method the rotavator at OMC, and compacting with practory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12)							324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, construction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Si.No. 6.05 SRRB M400-7 Construction of granular subsection in uniform layers with motor grader on the epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp							324	33858,00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Sl.No. 6.05 SRRB M400-7 Construction of granular subsection in uniform layers with motor grader on epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For ading I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp mp towards Basaveshwara Nagar 1st Main Road					Say	104.50	324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Sl.No. 6.05 SRRB M400-7 Construction of granular subsection in uniform layers with motor grader on epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded and are subspaced in uniform layers with motor grader on epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded and subspace material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp mp towards Basaveshwara Nagar 1st Main Road on 0 to 15.18		1 .	.15.18		Say 0,20	104.50	324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved laterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical leans MORTH Specification No.304 (Add 10% of ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) onsider 5% of Quantity Sl.No. 6.05 ERRB M400-7 Construction of granular subsections of granular subsections in uniform layers with motor grader one epared surface, mixing by mix in place method the rotavator at OMC, and compacting with bratory roller to achieve the desired density, mplete as per specifications. For Coarse graded and and subsection is subsection of property of the motor of granular subsections. For Coarse graded and subsection of granular subsections. For Coarse graded and subsection of property of the desired density, mplete as per specifications. For Coarse graded and graded subsections.		1 .	18.70 1	6.00	0,20 0.20 .	104.50 48.58 59.84	324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved atterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical teans MORTH Specification No.304 (Add 10% of the ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Sl.No. 6.05 SRRB M400-7 Construction of granular subsection in uniform layers with motor grader on epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded and are subspaced in uniform layers with motor grader on epared surface, mixing by mix in place method the rotavator at OMC, and compacting with pratory roller to achieve the desired density, implete as per specifications. For Coarse graded and subspace material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp mp towards Basaveshwara Nagar 1st Main Road on 0 to 15.18		1 - 1 -	18.70 1 12.59 1		Say 0,20	104.50	324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved laterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical leans MORTH Specification No.304 (Add 10% of ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Si.No. 6.05 2.RRB M400-7 Construction of granular subcase by providing coarse graded material, reading in uniform layers with motor grader one epared surface, mixing by mix in place method the rotavator at OMC, and compacting with practory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp mp towards Basaveshwara Nagar 1st Main Road om 0 to 15.18 om 15.18 to 33.88 om 33.88 to 46.47 om 46.47 to 61.53 om 61.53 to 75.83		1 - 1 - 1	18.70 1 12.59 1 15.06 1	6.00 6.00	0,20 0.20 0.20 .	48.58 59.84 40.29	324	33858.00
fitter construction of the	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved laterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical leans MORTH Specification No.304 (Add 10% of ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Si.No. 6.05 2.RRB M400-7 Construction of granular subcase by providing coarse graded material, reading in uniform layers with motor grader one epared surface, mixing by mix in place method the rotavator at OMC, and compacting with practory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp mp towards Basaveshwara Nagar 1st Main Road om 0 to 15.18 mm 15.18 to 33.88 mm 33.88 to 46.47 mm 46.47 to 61.53 mm 61.53 to 75.83 mm 75.83 to 100.62		1 - 1 - 1 1	18.70 1 12.59 1 15.06 1 14.30 1	6.00 6.00 6.00	0,20 0.20 0.20 0.20 0.20	48.58 59.84 40.29 48.19	324	33858.00
fitter corrections of the correction of the corr	coundation of structures as per drawing and echnical specifications, including setting out, onstruction of shoring and bracing, removal of tumps and other deleterious matter, dressing of des and bottom and backfilling with approved laterial complete as per specifications. III Hard ock -(blasting prohibited) A.Mechanical leans MORTH Specification No.304 (Add 10% of ewatering Charges) 2.No.221, I.No.27.10 of PW, P&IWTD SR 2011-12) consider 5% of Quantity Si.No. 6.05 2.RRB M400-7 Construction of granular subcase by providing coarse graded material, reading in uniform layers with motor grader one epared surface, mixing by mix in place method the rotavator at OMC, and compacting with practory roller to achieve the desired density, implete as per specifications. For Coarse graded anular sub-base material as per 400-2 For adding I Material. No.164, I.No.20.6.1 of PW.P&IWTD S.R 2011-12) r Ramp mp towards Basaveshwara Nagar 1st Main Road om 0 to 15.18 om 15.18 to 33.88 om 33.88 to 46.47 om 46.47 to 61.53 om 61.53 to 75.83		1 1 1 1 1 1 1	18.70 1 12.59 1 15.06 1 14.30 1 24.79 1	6.00 6.00 6.00	0,20 0.20 0.20 0.20 0.20 0.20	48.58 59.84 40.29 48.19 45.76	324	33858.00

Sl. No.	Description of work	Unit	No.	Length (m)	Bread th (m)	Depth (m)	Quantity	·Rate in Rs.	Amount i
	From 58.62 to 94.8		1	36.18	16.00	0.20	115.78		
	From 94.8 to 139.33		1	44.53		0.20	142.50		
	From 139.33 to 174.39		1	35.06		0.20	112.19		
	From 174.39 to 208.05		1	33.66	-	0.20	107.71		
	Ramp towards Manjunathnagar Road						101.12		
	From 0 to 17.84 & from Ch 495 to Ch 560		1	77.84	16.00	0.20	249.09		
	From 17.84 to 33.65		. 1	15.81	16.00	0.20	50.59		
	From 33.65 to 65.72		1	32.07	16.00	0.20	102.62		
	From 65.72 to 85.6		1	19.88	16.00	0.20	63.62		
	From 85.6 to 114.06		. 1	· 28.46	16.00	0.20	91.07	•	
	From 114.06 to 138.56		1	24.50	16.00	0.20	78.40		
	From 138.56 to 163.84		1	25.28	16.00	0.20	80.90		
	From 163.84 to 186.41		-1	· 22.57	16.00	0.20	72.22		
			-		10.00	0.20	1776.26		
						Say	1776.50	1050 94	1000017
		-	-			Say	1770.50	1050.84	1866817.2
	KSRRB M40b-17. Providing laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications. MORTH Specification No 406.								
	P.No.166, I.No.20.18 PW, P&IWTD S,R 2011-12) For Ramp								
-									
	Ramp towards Basaveshwara Nagar 1st Main Road From 0 to 15.18	-		15.10	10.00	- 11			5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Terrent Post	From 15.18 to 33,88		1	15.18	16.00	0.25	60.72		
1	From 33.88 to 46.47		1	18.70	16.00	0.25	74.80		
-	From 46.47 to 61.53	-	1	12.59	16.00	0.25	50.36		
	rom 61.53 to 75.83		1	15.06	16.00	0.25	60.24		
	rom 75.83 to 100.62		. 1	:14.30	16.00	0:25	57.20		
	amp b/w Shivanagar 1st & 8th Main	_	1	24.79	16.00	0.25	99.16		
	rom 0 to 31.27	-	-	01.07	10.00	0.00			
-	rom 31.27 to 58.62	-	1	31.27	16.00	0.25	125.08		
	rom 58.62 to 94.8	-	1		16.00	0.25	109.40		
	rom 94.8 to 139.33		1		16.00	0.25	144.72		
	rom 139.33 to 174.39		1		16.00	0.25	178.12		
	rom 174.39 to 208.05	-	1		16.00	0.25	140.24		
	amp towards Manjunathnagar Road	-	1	33.66	16.00	0.25	134.64		
	rom 0 to 17.84 & from Ch 495 to Ch 560		1	77.04	10.00	0.05	211.00		
	rom 17.84 to 33.65	_			16.00	0.25	311.36		
100,107	om 33.65 to 65.72		1		16.00	0.25	63.24		
_	rom 65.72 to 85.6	-	1		16.00	0.25	128.28		
	rom 85.6 to 114,06	-	1		16.00	0.25	79.52		
	om 114.06 to 138.56		1		16.00	0.25	113.84		
10000	om 138.56 to 163.84	-	1		16.00	0.25	98.00		
-	om 163.84 to 186.41		1		16.00	0.25	101.12		
	VIII 100.01 W 100.41		1	22.57	[6.00]	0.25	90.28		
1						1	2220.32		

SI. No.	Description of work	Unit	No.	Length (m)	Bread th (m)	Depth (m)	Quantity	Rate in Rs.	Amount Rs.
	KSRRB M600-i: Construction of dry lear cement concrete mix M5 with OPC cement @ 160kgs, with 25mm and down size graded granite metal coarse aggregates at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, aggregate cement ratio not to exced 15:1, aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be determined during trial length construction concrete strength not to be less than 10Mpa at 7days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No.601							•	
	(P.No.185, I.No.22.1 of PW, P&IWTD SR 2011-12)								
	For Ramp			7,000	100	1.2			ELETTE.
	Ramp towards Basaveshwara Nagar 1st Main Road								
	From 0 to 15.18		1	15.18	16.00	0.15	36.43		
-	From 15.18 to 33.88		1	18.70	16.00	0.15	44.88		
-	From 33.88 to 46.47		1	12.59	16.00	0.15	30.22		
-	From 46.47 to 61.53		1	15.06	16.00	0.15	36.14 34.32		
-	From 61.53 to 75.83		1	14.30 24.79	16.00	0.15	59.50		
-	From 75.83 to 100.62		1	24.10	16.00	0.10	. 33.30		
	Ramp b/w Shivanagar 1st & 8th Main From 0 to 31.27		1	31.27	16.00	0.15	75.05		
-	From 31.27 to 58.62		1	27.35	16.00	0.15	65.64		
-	From 58.62 to 94.8		1	36.18	16.00	0.15	86.83		
	From 94.8 to 139.33		. 1	44.53	16.00	0.15	106.87		
	From 139.33 to 174.39		1	35.06	16.00	0.15	84.14		
	From 174.39 to 208.05		1	33.66	16.00	0.15	80.78		
	Ramp towards Manjunathnagar Road						-		
-	From 0 to 17.84 & from Ch 495 to Ch 560		1	77.84	16.00	0.15	186.82		
_	From 17.84 to 33.65		1	15.81	16.00	0.15	37.94		
-	From 33.65 to 65.72	-	1	32.07	16.00	0.15	76.97		
-	From 65.72 to 85.6		1	19.88	16.00	0.15	47.71		
_	From 85.6 to 114.06	-	1	24.50	16.00	0.15	68.30 58.80		
-	From 114.06 to 138.56	-+	. 1	25.28	16.00	0.15	60.67		
-	From 163.84 to 186.41		1	. 22.57	16.00	0.15	54.17		
-1	1011 100.04 to 100.41			S-10 H. S.	13-11		1332.19	275.22	
						Say	1332.50	2757.24	3674022.
					1000				
I control of the cont	ASRRB M600-2: Cement Concrete Pavement: Construction of unreinforced, dowel jointed, plain tement concrete pavement over a prepared subsesse with OPC cement design mix M40 at 360kg over cum, with 25mm and down size graded granite netal coarse aggregate at 0.69cum and fine aggregates @ 0.46cum with superplastisiser at 3lts conforming to IS9103-1999 reaffirmed-2008, coarse and fine aggregates conforming to IS: 383, naximum size of coarse aggregate not exceeding 5mm, mixed in a batching and mixing plant as per peroved mix design, transported to site, laid with fixed form or slip form paver, spread, compacted and finished in a continuous operation including rovision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealent, debonding trip, dowel bar, tie rod, admixtures as approved, aring compound, finishing to lines and grades as er drawing complete as per specifications. MORTH, pecification No.602	Cum							

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Sl. No.	· Description of work	Uni	t No.	Length (m)	Bread th (m)		Quantity	Rate in Rs.	Amount i
	(P.No.185, I.No.22.2. of PW, P&IWTD SR 2011-12)		260			is made			1000
	For Ramp		1		100				
	Ramp towards Basaveshwara Nagar 1st Main Road	i					/ CSS/		Lance Control
	From 0 to 15.18		1	15.18	7.50	0.30	68.3	1	Profession 1
	From 15.18 to 33.88		2	18.70	7.50	0.30	84.1	5	
	From 33.88 to 46.47		2	12.59	7.50	0.30	56.6	6	
	From 46.47 to 61.53		2	15.06	7.50	0.30	67.7	7	12.5
	From 61.53 to 75.83	-	2	14,30	- 7.50	0.30	· 64.3	5	
	From 75.83 to 100.62		2	24.79	7.50	0.30	111.5	6	
	Ramp b/w Shivanagar 1st & 8th Main								
	From 0 to 31.27		2	31.27	7.50	0.30	140.75	2	
	From 31.27 to 58.62		2	27.35	7.50	0.30	123.08	3	
San	From 58.62 to 94.8		2	36.18	7.50	0.30	162.81		
	From 94.8 to 139.33		2	44.53	7.50	0.30	.200.39		100
	From 139.33 to 174.39		2		7 50	0.30	157.77	7	
	From 174.39 to 208.05		2	33.66	7.50	0.30	151.47	7	
	Ramp towards Manjunathnagar Road :								
	From 0 to 17.84 & from Ch 495 to Ch 560		2	77.84	7.50	0.30	350.28	3	
	From 17.84 to 33.65		2	15.81	7.50	0.30	71.15		
	From 33.65 to 65.72		2		7.50	0.30	144.32		
	From 65.72 to 85.6		2		7.50	0.30	89.46	the second secon	
	From 85.6 to 114.06		2	28.46	7.50	0.30	128.07		
	From 114.06 to 138.56		2	24.50	7.50	0.30	110.25		
	From 138.56 to 163.84		2	25.28	7.50	0.30	113.76		
	From 163.84 to 186.41		2	22.57	7.50	0.30	101.57		
							2497.86	-	
						Say	2498.00	-	12698732,8
								0000.00	12000102.0
	MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)					••			
	Consider 35 kg/cum for Sl.No.6.10								
	For CC Pavement .						87.43		
				Fig. 1		Say		68274.706	5974036.7
								30217.100	05/4000.7
f f	Providing and fixing Pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively. 100mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, abour, hire charges of machinery, loading, inloading, lead and lift, transportation etc., omplete.	Nos.							
	P.No.28, I.No.5.30 of PW, P&IWTD SR 2011-12)								
T.	tamp towards Basaveshwara Nagar 1st Main Road		447				447,00		
-				:					
P	amp b/w Shivanagar 1st & 8th Main	-	925				925.00		
I	amp towards Manjunathnagar Road		828				828.00		
+		-	-	-			2200.00	248.40	54 6480.00
T B la m	SRS M800 - 13. Road Marking with Hot Applied Shermoplastic Compound with Reflectrising Glass eads on Bituminous Surface: Providing and ying of hot applied thermoplastic compound 2.5 m thick including reflectorising glass beads at 250 ms per sqm area, thickness of 2.5mm is exclusive surface applied glass beads as per IRC:35. The mished surface to be level, uniform and free from	Sqm					,		

Sl. No	Doddinperon of horse	Un	it N	o. I	ength (m)	Bread th (m)	1 -	Quantit	y Rate in Rs.	Amount Rs.
	For Ramp Portion						1			
	Shoulder Marking					-11-				
	Ramp towards Basaveshwara Nagar 1st Main Roa	d		4	100.62	0.10)	40.2	5	4104-6
	Ramp b/w Shivanagar 1st & 8th Main	+		4	208.05	0.10		- 83.2	19	
	Ramp towards Manjunathnagar Road			_	186.41	-	-	74.5		
	Centre line Marking									-
	Ramp towards Basaveshwara Nagar 1st Main Roa	d ·			100.62	0.10		20.1	2	
-	Ramp b/w Shivanagar 1st & 8th Main			_	208.05	0.10		41.6	1	
-	Ramp towards Manjunathnagar Road	-			186.41	0.10		. 37.2	8	
-	Direction Arrows	-	. 1	10	5.00	0.90		45.0	0	
-		-	-	-				342.0		
-		-	-	+			Say	342.5	0 429.84	147220
6.14	KSRRB M800-15. Road Delinators: Supplyin and Installation of delineators (road way indicators hazard markers, object markers), 80 - 100 cm hig above ground level, painted black and white in 1 cm wide strips, fitted with 80 x 100 mm rectangula or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC - 79 and the drawings complete as per specifications. MORTH Specification No. 805	s, h 5 r e d).							
	(P.No.194, I.No.24.19 of PW,P&IWTD SR 2011-12)	-		-						
		1	9	9				. 99		
	KSRRB M800-35 Providing and fixing of road stud							100	365.04	36321.
	corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphlatic surface by drilling hole 30 mm upto a depth of 60mm and bedded in a suitable bituminous grout or epoxymortar, all as per BS: 873 part 4: 1973 complete as per specifications.					4.612				
	(P.No.197, I.No.24.41 of PW,P&IWTD SR 2011-12) Road stud on centre line marking									
	Ramp towards Basaveshwara Nagar 1st Main Road		67			-		67.00		
I	Ramp b/w Shivanagar 1st & 8th Main		139					139.00		
	Ramp towards Manjunathnagar Road		124					124.00		
-			III.					330.00	290.52	95871.6
Score in 77 m graph be	KSRRB M800-2. Retro-Reflectorised Traffic Signs: Providing and fixing of Retro-reflectorised autionary, mandatory, informatory sign as per RC: 67 made of high intensity grade sheeting vide lause 800 1.3, fixed over Aluminium sheeting. 1.5 mm thick supported on a mild steel angle iron post 5 mm x 75 mm x 6 mm firmly fixed to the ground by leans of properly designed foundation with M15 rade cement concrete 45 cm x 45 cm x 60 cm, 60 cm elow ground level as per approved drawing per specification No. 801.									
(P	P.No. 191, I.No. 24.2 of PW,P&(WTD SR 2011-12)									
160	Ocm circular	-	8					8	2539.08	20312.64
In co Ca	SRRB M100-4.2. Haulage of materials by tipper of cluding cost of loading, unloading and stacking mplete as per specifications. MoRT&H Chapter 1 ase-1: Surface Road	Cum								
	No.141&147 of PW, P&IWTD S.R 2011-12)			3 min 1						
	y = Si.No.6.01x0.075							666.11		
	y = Sl.No.6.02x0.075							666.11		
11.1+	$y = S1.N_{0.6.03+6.04+6.05}$	1	183		120		100	2139.85		North Control

Sl. No.	Description of work	Unit	No.	Length (m)	Bread th (m)	AND DESCRIPTION OF REAL PROPERTY.	Quantity	Rate in Rs.	Amount in Rs.
							43472;07		
						Say	43472.50	132.84	5774886.90
		U.S.				Trans.			35616517.21
6.18	Miscellaneous & Rounding off :		21 A						482.79
								TOTAL	35617000

Manasa Consultants

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Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Drainage Facility to Underpass

SI.	Description of work	Unit	No.	-			Quantity		Amount in Rs.
No.				m ;	m	m		Rs.	ns.
7.01	KSRRB M2100-2.1 Earthwork in excavation for foundation of structures as per drawing and technical specifications. Including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering charges)								
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-12)								
	Drain Across box portion ·		1	17.80	1.70	1.45	43.88		
	NP3 Pipe		1	235.00	1.80	3.00	1266.89		
	Man Hole ·		6	3.60	3.60	3.00			
	RCC Drain		1	150.00	2.20	2.05	676.50		
						Carr	2220.15	10.00	91009.41
-						Say	2220.50	40.99	31003.47
	KSRRB M2100-2.2 Earthwork in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth 3m to 6m. MORTH Specification No.304 (Add 10% of Dewatering Charges)								
	(P.No. 220, I.No.27.5 of PW, P&IWTD SR 2011-12)					Visit I			
	NP3 Pipe		1	235.00	1.80	0.62	260.15		
	Man Hole		6	3.60	3.60	0.92	71.15		
							331.30		
	Consider 60% of the Qnty						198.78		0010.70
		-				Say	199.00	46.818	9316.78
1	KSRRB M2100-3.2: Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. II.Ordinary rock (not requiring blasting) B.Mechanical Means Depth appto 3m. MORTH Specification No 304 (Add 10% of Dewatering Charges)								
(P.No. 220, I.No. 27.8 of PW, P&IWTD SR 2011-12)								
	Consider 40% of the Qnty for Sl.No.7.02,						132.52		
				5 64		Say	133.00	51.84	6894.72
g f	KSRRB M2100-13. Plain Cement Concrete M15 with DPC cement @ 240kgs, with 40mm and down size traded granite metal coarse aggregates @ 0.84cum and the aggregates @ 0.56cum in Open foundation complete is per Drawing and Technical Specifications. MORTH Expecification No. 1500, 1700 & 2100	Cum							
10	P No. 222, I.No. 27, 24 of PW.P&IWTD S.R 2011-12)								
75 77 77 77 77	Orain Across box portion		1	17.20	1.70	0.15	4.39		
			1	235.00	1.50	0.15	52.88		
the same of the same of	Man Hole .		6	3.00	3.00	0.15	8.10		

SI.	Bescription of work	Onio	t No.	-	Breadth		Quantit		
140				m	m	m		Rs.	R
	RCC Drain		1	150.00	2.20	0.15	49.5	0	
	Benching Concrete on both sides of NP3 Pipe			-15				S SEE	
	NP3 Pipe		1	235.00	0.	72	168.5	0	
					1000		283.3		+
						Sav	283.50		103
		129				·	200.00	3635.8	103
7.05	KSRRB M2100-15.1: "KSRRB M2100-14. Plai /Reinforced Cement Concrete M20 with OPC cement (320kgs, with 20mm and down size graded granite meta- coarse aggregates @ 0.69cum and fine aggregates (0.46cum, with superplastisiser (@ 3lts confirming t IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications Case - I: Using Concrete Mixer. MORTH Specification No. 1500, 1700 & 2100	1] @ o	•						
	(P No. 222 I No. 27.26 of DW D& IMED CD 2011 10)	-					erson to t		
-	(P.No. 222, I.No. 27.26 of PW, P&IWTD SR 2011-12)								
	Drain Across box portion								
	Bottom Slab		1	17.20	1.40	0.20	4.82	The state of the s	
_	Side wall		2	17.20	0.20	1.00	6.88		
-	RCC Drain								
	Bottom Slab		1	150.00	1.90	0.20	57.00		
-	Side wall	:	2	150.00	0.20	1.50	90.00		
	Top Slab		11	150.00	1.90	0.20	57.00		
				100.00		0.20	215.70		
		-	-		\rightarrow	· de			
			-			Say	216.00	4707.72	10168
2	340kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and					4"			
T	metal coarse aggregates @ 0.70cum and fine aggregtaes @ 0.47cum, with superplastisiser @ 3lts								
1	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100			,					
	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500.			,					
i i i i i i i i i i i i i i i i i i i	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole			200	9.00				
T U U	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, l.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Mottom Slab		6	2.80	2.80	0.30	. 14.11		
CONTRACTOR OF THE CONTRACTOR O	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole		12	2.30	0.25	2.50	17.25		
TT U	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Jsing Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, l.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50	17.25 13.50		
TT U	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, l.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Mottom Slab		12	2.30	0.25	2.50	17.25 13.50 11.76		
TT U	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Jsing Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, l.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50	17.25 13.50		
CONTRACTOR OF THE CONTRACTOR O	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Jsing Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, l.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50	17.25 13.50 11.76	4811.4	27424
T COMPANY TO THE PROPERTY OF T	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Jsing Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, l.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50 0.25	17.25 13.50 11.76 56.62		27424
TO KA base special spe	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and Technical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 . P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall Op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as per drawing and technical specifications complete as per ecifications. MORTH Specification No. 1600 & 2200		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50 0.25	17.25 13.50 11.76 56.62		27424
B B S To De Sep	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall Op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as per drawing and technical specifications complete as per ecifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12) rain Across box portion		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50 0.25	17.25 13.50 11.76 56.62		27424
B B S To De Sep	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall Op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as per drawing and technical specifications complete as per ecifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12) rain Across box portion		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50 0.25	17.25 13.50 11.76 56.62 57.00		27424
I L CO N B S S S T T C C O C C O	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall Op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as per drawing and technical specifications complete as per ecifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12)		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50 0.25	17.25 13.50 11.76 56.62		27424
I E CO CO Ma	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as ar drawing and technical specifications complete as perfecifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12) rain Across box portion on sider 90Kgs/cum for Sl.No.7.05 an Hole		12 12 . 6	2.30 1.80 2.80	0.25 0.25 2.80	2.50 2.50 0.25	17.25 13.50 11.76 56.62 57.00		27424
I E CO CO Ma	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall Op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as a redrawing and technical specifications complete as per secifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12) Tain Across box portion onsider 90Kgs/curn for Sl.No. 7.05		12 12	· 2.30 1.80	0.25 0.25	2.50 2.50 0.25	17.25 13.50 11.76 56.62 57.00		27424
I I I I I I I I I I I I I I I I I I I	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as ar drawing and technical specifications complete as perfectifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12) rain Across box portion on sider 90 Kgs/curn for Sl.No. 7.05 an Hole nsider 70 Kgs/curn for Sl.No. 7.06	MT	12 12 . 6	2.30 1.80 2.80	0.25 0.25 2.80	2.50 2.50 0.25 Say	17.25 13.50 11.76 56.62 57.00 21.60 3.99 25.59	4811.4	
TO ME BE SP CP CO ME SP CP CO ME SP CP CO	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as ar drawing and technical specifications complete as perfecifications. MORTH Specification No. 1600 & 2200 No. 229, I.No. 28.8 of PW, P&IWTD SR 2011-12) rain Across box portion on sider 90Kgs/cum for Sl.No.7.05 an Hole	MT	12 12 . 6	2.30 1.80 2.80	0.25 0.25 2.80	2.50 2.50 0.25	17.25 13.50 11.76 56.62 57.00 21.60 3.99 25.59		27424
B B S Property Co. Market M. Co. Property Co. Market M. Co. Property Co. Market M. Co.	metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed 2008, in Open Foundation complete as per Drawing and fechnical Specifications. D. PCC Grade M-25. Case - I. Using Concrete Mixer. MORTH Specification No. 1500, 700 & 2100 P.No. 223, I.No. 27.28 of PW, P&IWTD SR 2011-12) Man Hole Sottom Slab ide wall Op Slab SRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as ar drawing and technical specifications complete as per ecifications. MORTH Specification No. 1600 & 2200 No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) rain Across box portion insider 90Kgs/cum for Sl.No.7.05 an Hole insider 70Kgs/cum for Sl.No.7.06 Dividing and laying reinforced cement concrete pipe in the property of	MT	12 12 . 6	2.30 1.80 2.80	0.25 0.25 2.80	2.50 2.50 0.25 Say	17.25 13.50 11.76 56.62 57.00 21.60 3.99 25.59	4811.4	

SI.	Description of norm	Uni	t No	. Leng	gth		Dept	Quantity		Amour
No.				m		. m	m		Rs.	Rs
									NA L	
7.09	KSRB 2.4: Refilling available earth around pip lines, cables in layers not exceeding 20cms in depth compacting earth deposited layer by ramming after watering with lead upto 50m and lift upto 1.50	n, r	n							
	including cost of all labour complete as pe specfiications.	r								
	(P.No.6, I.No.2.11 of PW.P&IWTD SR 2011-12)							100		-
	Sour sides of Mannole	+		0.	60	0.60	3.76	1.35		- 1
	Both sides of RCC Drain			150.	00	0.60	2.05	184.50		
	NP3 pipe									
_	Both sides		1	100.00		1.80	-	1463.58		
	Deduct for NP3 Pipe			. 235.	90	1.1	3	-265.64		
		-	-		-			1383.79		
		-	-	-	+		Say	1384.00	.58.32	807
.10	KSRB 12-6.3: Providing 20mm round footrest and	Mos	-		-					
	fixing in manhole with M10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size metal of size including cost of materials, labour charges curing complete as per specifications. Specification No. KBS 12.4.6		•					:		
(P.No.74 of I.No.11.45 in PW,P&IWTD SR 2011-12)									
-1	Manhole footrest		18					18	205.2	369
11/1										
6 u	Providing and fixing M.S Manhole cover of size 600x600mm including with all all lead & lift, loading & inloading, tools, plants and other incidental charges as per specifications and as per the directions by Engineer in charge of the work.	Nos.								
1000	Data Rate)		6					6	6222.00	3733
w th	ASSRB M220 - 8. Providing weep holes in Brick hasonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending arough the full width of the structure with slope of V:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per pecifications. MORTH Specification No. 2706 & 2200	Nos.								
P.	No 229, INo 28.10 of PW,P&IWTD S.R 2011-12)				+		-	-	-	
	anhole.	- 14	60					60.00		10/11/02
1				C.S.E.			Say	60.00	148.23	8898
-									110.20	0000
M.	S Grating for Drains at Ramp Portion	Sqm						Conference of the Conference o		
-	ata Rate)									
Dr	ain across box portion		1	17.20		1.20		20.64		
-							Say	21.00 2	1381.00	449001
1/0	PPP Man a	- :								
an	GRRB M100-4.1: Cost of Haulage including loading	Cum						ALL LES		
Sa	d unloading of stone Boulder / Stone aggregates / nd /Kankar / Moorum KSRRB M100-1: Placing tipper									
at	loading point, loading with front end loader,	1							180	
dui	mping, turning for return trip, excluding time for									
Mo	ulage and return trip complete as per specifications. RT&H Chapter 1									
Cor	nveying up to 20km by Mechanical means.								-	
P.	No. 141&147 of PW, P & IWTD S.R 2011-12)		+				-			
For	Drainage facility		1				-		-	
	= Sl.No.7.01+7.02 - 7.09						- 1	167.80	-	
					120			168.00	123.34	4 4056.44
										The second secon

2.7	Description of work	Uni	t No	Lengt	Breadth	Depth	Quantity	Ratein	Amount
No.				m	m	m		Rs.	Rs.
7.15	KSRRB M300-55. Construction of subgrade and earthen shoulders with approved material gravel murrum with all lifts & leads, transporting to site spreading grading to required slope and compacted to meet requirement of Table 300-2 complete as perspecifications (including cost of earth, watering charges & compaction by vibratory roller) MORTH Specification No. 305								
	(P.No.156, I.No.19.62 of PW,P&IWTD S.R 2011-12)						100		
			1	100.00	3.00	0.50	159.00		
	· · · · · · · · · · · · · · · · · · ·		-			Say	150.00	174.96	26244.
	KSRRB M400-7 Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per specifications. For Coarse graded granular sub-base material as per 400-2 For Grading I Material.			: :					
	(P.No.164, I.No.20.6.1 of PW,P&IWTD S.R 2011-12)		1	100.00	3.00	0.20	60.00		
				100.00	5.00	Say	60.00	1050.84	63050.4
10/	KSRRB M400-17. Providing laying, spreading and					V. 191		1000.04	00000.
in court	compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant arriage of mixed method of tipper to site, laying in miform layers with paver in sub base / base course on well prepared surface and compacting with vibratory coller to achieve the desired density complete as per pecifications. MORTH Specification No. 406.	Culli							
(I	P.No.166, I.No.20.18 PW,P&IWTD S.R 2011-12)	-	.			-			
I			-1	100.00	3.00	0.25	75.00		
+				Sign to Sign		Say		1060.56	79542.0
gr sp mi	SRRB M500-6. Providing and applying Primer coat ith bitumen emulsion on prepared surface of anular Base including clearing of road surface and raying primer at the rate of 0.60 kg/sqm using echanical means complete as per specifications. ORTH Specification No.502	Sqm							
(P	No.171, I.No.21.6 of PW,P&IWTD S.R 2011-12)								
+			1	100.00	3.00	-	300.00		
+			-			Say	300.00 4	0.5864	12175.92
sqi (ex ma	SRRB 500-8 Providing and applying tack coat on Sanular surface treated with primer at 3 Kg per 10 m, heating bitumen in boiler fitted with spray set cluding cleaning of road surface) including cost of all terials, labour, HOM of machienries complete as per crifications. MORTH Chapter 5	qm							
(P.1	No. 172 I.No.21.8 of PW,P&IWTD S.R 2011-12)		-					-	
			1 1	00.00	3.00	3	300.00	-	
								9.98	5994.00
					The state of the s			THE PERSON NAMED IN COLUMN 2 IN COLUMN 2	A STATE OF THE PARTY OF THE PAR

SI.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity		Amount i
No.				m	m	. m		Rs.	Rs.
	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregaters with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to acheive the deisred density, 50 / 75 mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 with 60 / 70 grade bitumen							THE COLUMN TO TH	
	(P.No.172 I.No. 21.11.2 of PW,P&IWTD S.R 2011-12)								Jan Stranger
-			, 1	100.00	3.00	0.05	15.00		
-			•			Say	15.00	6490.61	97359.
	KSRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5	Sqm				•			
1	(P.No.172 I.No.21.7 of PW,P&IWTD SR of 2011-12)					6.4			
		- 19	1	100.00	3.00		300.00		
14			94			Say	300.00	16.4592	4937.
H H H h h tu a	ASRRB M500-17. Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per lour using crushed aggregates of specified grading, premixed with bituminous binder at 4.0 to 4.5% by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and lignment, rolling with smooth wheeled, vibratory and andem rollers to achieve the desired compaction as per for Moradam for the specification clause No. 500.7 complete in all precification No. 507					2214			
(F	P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-12)						- 10		
1			1	100.00	3.00	0.05	15.00		
+						Say	15.00	8856.14	132842.10
th sq (e m	SRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 2.5kg per 10 km. heating bitumen in boiler fitted with spray set accluding cleaning of road surface) including cost of all aterials, labour, HOM of machineries complete as per pecifications. MORTH Chapter 5	Sqm							
(D	No 170 I No of a cour partition on course								
(P	No.172 I.No.21.7 of PW.P&IWTD SR of 2011-12)	-	11.	100.00	3.00		300.00	-	100
1		-	1	100.00	3.00	Say		16.4592	4937.76
								AUGUSTUS I	1001.10

SI.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in	Amount in
No.				m	m	m		Rs.	Rs.
	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with 100 - 120 TPH batch type not mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP								
	(P.No.175 of I.No 21 22.4 in PW.P&IWTD S.R 2011-12)							200107	
			1	100.00	3.00	0.04	12.00		
						Say	12.00	11208.63	134503.5456
									7625868.87
25	Miscellaneous & Rounding off								131.13
								TOTAL	7626000.00

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the Item: Diversion Road

	to make the second of the seco	······	COLLA	Diversio	<u>II Itoau</u>				
Sl. No.	Description of work	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount i
8.01	KSRRB 3000: Filling Pot - holes and Patch Repairs with Bituminous Concrete, 40mm KSRRB M3000-5: Removal of all faield material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, painting of tack coat on the sides and base of excavation as per clause 500.3, back filling the pot holes with hot bituminous material as per clause 500.4, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2 complete as per specifications. MORTH Specification No.3004.2								
	(P.No. 260, I.No. 35.5, P, PW & IWTD SR 2011-12)				Avg			in the last	
	West side								
	From CH-1060 to CH-1160		1	100.00	10.80		1080.00		
	From CH-1000 to CH-1050 (Junction)		1	50.00	9.75		487.50		
	From CH-820 to CH-1000	-	1	180.00	8.80		1584.00		
	From CH-740 to CH-820 (Junction) From CH-560 td CH-740		1	80.00	5.50		440.00		
	East Side	-	1	180.00	5.48		985.50	-	
	From CH-1060 to CH-1160	-	-	100.00	9.40	- 2 -	0.40.00		
	From CH-1000 to CH-1050 (Junction)		1	50.00	8.30		940.00		1. 215
	From CH-820 to CH-1000		1	180.00	. 8.19		1474,02		
	From CH-740 to CH-820 (Junction)		1	80.00	8.80		704.00		
-	From CH-560 to CH-740		1	180.00	6.50		1169.82		
	Battery limit towards Basaveshwara nagar 1st Main Road Junction		1	80.00	39.35	-	3148.00		
	Battery limit towards Manjunathnagar Road Junction		1	40.00	32.77		1310.80		
	Battery Limit								
	owards Majestic		1	100.00	19.09		1909.33		
	owards Shivanagar 1st Main Road		1	100.00	11.31		1131.33		
	owards Prakashnagar	-	1	100.00	11.38		1138.00		
-17	owards Shivanagar 8th Main Road		1	100.00	8.33		833.33		
-							18750.64		
10	Consider 3% of the area		-			Can	562.52	200 40	015150 77
+	1	-	-			Say	562.52	382.48	215153.77
re sl	SRRB M500-56.1: Providing and laying slurry seal consisting of a mixture of fine aggregates, portable ement filler, bituminous emulsion and water on a coad surface including cleaning of surface, mixing of surry seal in a suitable mobile plant, laying and compacting to provide even riding surface Complete as er specifications. Case-I: 5mm thickness MORTH pecification No. 516	Sqm							
(F	No.181, I.No. 21.64 of P. PW & IWTD SR 2011-12)				F2.80)/C		2200		
	est side								
F	rom CH-1060 to CH-1160		1	100.00	10.80		1080.00		
Fi	rom CH-1000 to CH-1050 (Junction)		1	50.00	9.75		487.50		
Fi	rom CH-820 to CH-1000		1	180.00	8.80		1584.00		
Fr	rom CH-740 to CH-820 (Junction).		1	80,00	5.50		440.00		
Fr	om CH-560 to CH-740		1	180.00	.5.48		985.50		
Ea	ast Side								
Fr	om CH-1060 to CH-1160	-615	. 1	100.00	9.40		940.00		
Fr	om CH-1000 to CH-1050 (Junction)		1	50.00	8.30	2.3	415.00		
-	om CH-S20 to CH-1000	MY BURE	1	180.00	8.19		1474.02		

.SI.	lst 8th Main Road Junction Description of work	Unit	No.	60266	100 17	Control of the Contro	Quantity	Rate in	Amount in
No.				(m)	(m)	(m)		Rs.	Rs.
	From CH-740 to CH-820 (Junction)		. 1	80.00	8.80		704.00		
	From CH-560 to CH-740		1	180.00	6.50		1169.82		
	Battery limit towards Basaveshwara nagar 1st Main R	oad Jui	-	80.00	39.35	••	3148.00		
	Battery limit towards Manjunathnagar Road Junction		1	40.00	32.77		1310.80		
	Battery Limit			100.00	10.00		1000 20		
	Towards Majestic		1 1	100.00	19.09		1909.33 1131.33		
	Towards Shivanagar 1st Main Road Towards Prakashnagar		1	100.00	11.38		1131.33		
	Towards Prakashnagar Towards Shivanagar 8th Main Road		1	100.00	8.33		833.33		
	Towards Shivanagar oth Main Road		-	100.00	0.00		18750.64	-	
	Consider 1% of the area						187.51		
	Consider 1% of the area					0		77.00	1.500
		100				Say	188.00	77.28	14529.
	KSRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as								
	per specifications. MoRT&H/ Chapter 5 . (P.No.172 I.No.21.7 of PW,P&IWTD SR of 2011-12)				Avg				
	West side								
-	From CH-1060 to CH-1160		1	100.00	10.80		1080.00		
-	From CH-1000 to CH-1050 (Junction)		1	50.00	9.75	1200	487.50		
_	From CH-820 to CH-1000		1	180.00	8.80		1584.00		
-	From CH-740 to CH-820 (Junction)		1	80.00	5.50		440.00		
-	From CH-560 to CH-740		1	180.00	5.48		985.50		17,9,19
-	East Side			100.00	0.70		000100		
-	From CH-1060 to CH-1160		1	100.00	9.40	7	940.00	777	
-	From CH-1000 to CH-1050 (Junction)		1	50.00	8.30		415.00	5000	
1	From CH-820 to CH-1000		1	180.00	8.19		1474.02	- 10 %	
	From CH-740 to CH-820 (Junction)		1	80.00	8.80		704.00	Patrick Co.	
I	From CH-560 to CH-740		1	180.00	6.50		1169.82		
I	Battery limit towards Basaveshwara nagar 1st Main Ro	ad Ju	1	80.00	39.35		3148.00		SELVENTING
I	Battery limit towards Manjunathnagar Road Junction		- 1	40.00	32.77		1310.80		
I	Battery Limit	= 0.00							
1	Fowards Majestic		1	100.00	19.09		1909.33		
1	Towards Shivanagar 1st Main Road		1	100.00	11.31	38	1131.33		
7	Towards Prakashnagar	95.14	. 1	100.00	11.38	- 1.	1138.00		
1	Towards Shivanagar 8th Main Road		1	100.00	8.33	D-1-1-	833.33		
-	And the second s						18750.64		
-						Say	18751.00	16.46	308626.46
to the second se	CSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with 100-120 TPH batch type not mix plant producing an average output of 75 onnes per hour using crushed aggregates of specified trading, premixed with bituminous binder at 5.4 to 6.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with ensor control to the required grade, level and lignment, rolling with smooth wheeled, vibratory and andem rollers to achieve the desired compaction as er MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH pecification clause No. 500.9 complete in all respects as per specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP								
-	P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011-12) Vest side		+					-	
-	rom CH-1060 to CH -1160		1	100.00	10.80	0.04	43.20	-	
	4.449		-		9.75			The second second second	

Sl. No.	· ·	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in
	From CH-820 to CH-1000		1	180.00	8.80	0.04	63.36		
	From CH-740 to CH-820 (Junction)		1	80.00	5.50	0.04	17.60		
	From CH-560 to CH-740 .		1	180.00	5.48	0.04	39.42		
	East Side								
	From CH-1060 to CH-1160		- 1	100.00	9.40	0.04	37.60		
	From CH-1000 to CH-1050 (Junction)	3-211	1	50.00	8.30	0.04	16.60		
	From CH-820 to CH-1000 :		1	180.00	8.19	0.04	58.96		
	From CH-740 to CH-820 (Junction)	1	1	80.00	8.80	0.04	28.16		
	From CH-560 to CH-740		1		6.50	0.04	46.79		
	Battery limit towards Basaveshwara nagar 1st Main Ro	ad Ju	1	80.00	39.35	0.04	125.92		
	Battery limit towards Manjunathnagar Road Junction		1	40.00	32.77	0.04	. 52.43		
	Battery Limit	-	-	40.00	02.11	0.04	. 02.40		
	Towards Majestic		1	100.00	19.09	. 0.04	76.37		
	Towards Shivanagar 1st Main Road		.1	-					
-			-	100.00	11.31	0.04	45.25		
-	Towards Prakashnagar		1	100.00	11.38	0.04	45.52		
	Towards Shivanagar 8th Main Road		1	100.00	8.33	0.04	33.33		
							750.03		
						Say	750.50	11208.63	8412075
	KSRRB M800-43: Installation of a steel portable barricade with horizontal rail 300mm wide, 2.5m in length fitted on a 'A' frame made with 45x45x5mm angle iron section, 1.5m in height, horizontal rail painted (2coats) with yellow and white stripes, 150mm in width at an angle of 45degree, 'A' frame painted with 2 coats of yellow paint, complete as per IRC.SP:55 2001 complete as per specifications.								
	(P.No.198, I.No.24.44 of PW,P&IWTD SR 2011-12)		107				107.00		1070010
			487		, "		487.00	2214.00	1078218.
i i i i i i i i i i i i i i i i i i i	Supplying, fabricating, erecting, and fixing in position, inserts and embedment, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams, rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straightening, cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel reaint over one coat of metal primer, The rate quoted is so include the cost of all materials, Iabour, tools, ackets, cranes, devices and plants, Welding Electrodes, Bolts, Nuts, Washers, Clamps, connections, thims and Packing Pieces etc., required for the Work sper the specifications and Drawings complete with Il lead and lifts as directed by the Engineer-in-charge.								
_		MT							
M	IS Sheet 2mm thick for Barricading								
12	239x 1.5 x 0.002 x 7850 =29178.45kg Say 29.18MT						29.18		
						Say	29.50	61000.00	1799500.0
+		-	-			7			
ro st 35	roviding and fixing Project Display Board of size 80 vertical x 1.60 mtrs. Horizontal made of cold alled coil 16 Gauge (1.6mm thickness) sheeting rengthened by welding to MS angle of size 5x35x5mm iron framework on all sides, extra cross artical angle fixed u sing nuts and bolts, base of the pard shall be cleaned, applying red oxide								

S	1st 8th Main Road Junction Description of work	1	1					was specified and	ctober-2012
N	o.		No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in	Amount i
	and black paint by sprayer on both sides of the board and all MS iron frameworks, background of the facing side of the board painted in traffic yellow, project information written in English / Kannada / Hindi, painting letters and numeral in black, fixed on a mild steel angle iron post 75 mm x 75 mm x 6mm, 2Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60cm below ground level and the board 2.8m from ground level as per approved drawing including cost of all materials, labour, unloading, curing backfilling, transporting etc., complete.	t							
	(P. No.81, Item no 8.47 of NHSR 2009-10)		2	-	-		2	7960.60	15921.2
8.08	KSRRB M800-45: Drum delinator in construction zone Provision of metal drum / empty bitumen drum delinator, 300mm in diameter, 800 mm high, filled with earth for stability, painted in circumferential strips of alternate black and white 100mm wide fitted with reflectors 3Nos of 7.5cm dia, all as per IRC:SP:55-2001 complete as per specifications.	Each							
	(P.No.199, I.No.24.48 of PW, P&IWTD SR 2011-12)		1						
			15	:.			15	371.52	5572.80
	KSSRRB M800 - 46. Positioning of a smart flagman with a yellow vest and a yellow cap and a red flag 600 x 600 mm securely fastened to a staff 1 m in length for guiding the traffic complete as per specifications.	Each							
	(P.No.199, I.No.24.49 of PW,P&IWTD 2011-12)				Market State	-			
	Considering 5 Nos. per day for a period of 15months	2	2250	-		-	2250.00	281.88	634230.00
									12483827.69
10	Miscellaneous & Rounding off								172.31
								TOTAL	12484000.00

BANGALORE DEVELOPMENT AUTHORITY

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road Junction

Name of the work: Electrical Works

SI. No	Description of work	Unit	Quantity	Rate in	Amount in R
9.00	Electrical Works			Its.	
9.1	Supplying and fixing of Philips make Velocity street light fixture suitable for:250 Watt SON - T PIA sodium vapour lamp SGP 338 / 250 SON - T sea green, or equivalent with following parameters Housing made out of LM6 high pressure die cast recyclable aluminium alloy of sturdiness and excellent corrosion resistance the finish should be powdwe coated sea green housing for improved aesthetics and better environmental protection. The lamp compartment should consist of electrochemically anodized, high purity POT reflector with a soecifically designed ribbed profile for better uniformity and high spacing to mounting ratio, All electrical accessories such as energy efficient low loss open construction copper ballast with tw.130 deg., semi parallel ignitor and siemens EPCOS make power pafactor improvement capacitor should be provided prewored upto terminal block. All accessories are to be mounted toa removably gear plate for ease of	g r r f			
	maintenance. All electrical connections of the control gear module with the rest of the luminarie are click fix, foolproof and require use of no., tools.	.*/		4	1 1
I s	Control gear compartment opens from top. Heat resistant toughned curved glass bowl for the lamp compartment, which is sealed replacement, is by opening the top compartment to ensure ingress protection of IP66 for the lamp compartment. Flexible optics to achieve optimum light distribution to suit different road and installetion parameter. Specially designed dual pole mounting arrangement bottom as well as lateral pole mounting suitable for mounting on pole dial., 42mm-70mm luminarie shall fully confirmed to safety norms according to IEC598/ENEC60598 make philips or GE.	Nos.	100	10500.00	1050000.00
9.2 S f f h h r v	SON-T PLUS PIA 250W HPSV TUBULAR LAMP Supplying and fixing 250W high pressure sodium vapour lamp of tubular design with ead free environment- friendly glass, without built in ignitor and having a luminous efficacy not less than 125 lumen/watt with a sestricting time-30seconds suitable for fixing in the velocity sodium apour street light fitting for operation on single phase 230V 50Hz, AC lower supply and confirming to IS9974 PART I and II (latest).	Nos.	100	9500.00	950000.00
).3 F ir	fixing metal halide Street light fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires complete (SR 2010-11) Page 26, Item 5.	Nos.	200	130.00	26000.00
le ar nu po	upplying and fixing telescopic M.S.bracket fabricated by using 0.5m ength 4" dia telescopic M.S.pipe with 2" dia 1.5m long M.S.bracket all re-welded with suitable angle using 6mm thick M.S.sheet, grip bolt & uts as required suitable for 9 to 12 mtrs M.S.tubular pole or octogonal ble with necessary two coats of approved painting, with all other pressories etc complete				
a)	Single bracket 1 X 1.5 Mtr.Length (SR 2010-11) Page 26, Item 4(b).	Nos.	100	1005.00	100500.00
	Double bracket 2 X 1.5 Mtr Length (SR 2010-11) Page 26, Item 4(c).	Nos.			

S!. No	o. Description of work	Unit	Quantity	Rate in Rs.	Amount in R
9.5	Fabricating, supplying and erecting sawged tubular pole of height 9Mtr having three sections and providing two coats of red oxide paint and finished with two coats of enamaled paint of approved quality and color and M.S. Base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI/flexible PVC pipe of 1Mtr. length fitted to the heavy guage polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole /200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB/DP switch. The pole shall be erected n cement concrete work(1:2:4) including excavation and refilling of planting depth of the pole to the to the ground level and the coping CC shall be upto 0.6M above ground level as per 2713-7			Als:	
	C) 10 Mtr (5.2Mtr Hb 139.7mm dia 4.85mm thick x 2.4 Mtr Hm, 114.3mm dia 4.50mm thick x 2 M Ht, 88.9mm dia 3.25mm thick as per IS 410 SP 29	Nos.	150	18050.00	2707500.0
9.6	Supply, installation, testing & commissioning of outdoor type feeder piller board with TVM meter as per power distribution schematic diagram enclosed The rates shall include all necessary foundation & civil works (MKT Rate)	No	1	80000.00	80000.00
9.7	Supplying, providing, testing and commissioning of 1.1 KV class single core 3/20mm stranded copper cable PVC insulated and sheathed for street lights from the control points located on pole supports at 2.0m above ground level complete and as directed by the Engineer in charge (SR 2010-11) Page 9, Item 20(I) (c)	Mtrs	3000	25.00	75000.00
9.8	Supplying, providing, testing and commissioning of 50mm GI pipe at pole supports to enclose the UG cable etc., complete and as directed by the Engineer in charge including digging erection etc. (SR 2010-11) Page 69, Item 15(b).	Mtrs '	300	260.00	78000.00
9.9	ELECTRIFICATION - BOX TUNNEL :				
	Supplying high pressure 150 Watts metal halide street light luminare suitable for use with high pressure metalhallide lamp with integrated control gear. The fitting shall be on non corrosive high pressure die cast alluminum housing with low copper content gray powder coated finish including wiring, suitable to operate on 230/250V 50Hz AC supply including heavy duty copper biased, igniter, condenser and 150 watts metal halide lamp. (SR 2010-11) page 19, Item 13. (II). (a)	Nos.	32	5450.00	174400.00
i	Fixing metal halide Street light fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires complete (SR 2010-11) Page 26, Item 5.	Nos.	32	130.00	4160.00
s r t	Supplying 25mm dia 2mm thick heavy gauge PVC conduit pipe with suitable size bends, metal juncation boxes, adhesive paste etc, and running before concrecting the slabs. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of juncation boxes and pipes end should be covered using PVC and enclousers and run pipes with 18SWG GI fish wire run throughout the conduit wherever necessary. (Pg. No. 35 PWD SR 99-00 Item No.II 2 (b))	·Mtrs	. 300	41.00	12300.00
W	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete 63 Amps	Nos.	4	219.00	876.00
n	Supplying and fixing of class A (medium duty) GI pipe of wall thickness to less than 3.25mm on pole/wall/drain crossing with necessary lamping arrangements for UG cable 50mm	Rmtr	100	260.00	26000.00

S1. N	Description of work	Unit	Quantity	Rate in	Amount in R
9.1	for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable bentry pipe with 16SWG	r n	150	600.00	90000.
9.14	Supplying of L.T. Cables			1	
	Supplying of L.T.UG cable having aluminium conductor PVC insulated				
	sheathed, galvanised, steel wire/steel tape armoured cable with PVC		1. 1.		
	outer sheathing 1.1 KV class (conforming to IS 1554)	Lie and	March 1		
9.14.	3.5C x 50 Sqmm XLPE cable				
	(SR 2010-11) page 67, Item 10(I)(g)	Mtrs.	100	250.00	25000.0
9.14	2 3.5C x 25 Sqmm XLPE cable	36			
	(SR 2010-11) page 67; Item 10(I)(e)	Mtrs.	150	215.00	32250.0
9.14.8					
	(SR 2010-11) page 67, Item 10(I)(d)	Mtrs.	3000	150.00	450000.0
9.15					
0.10	yg, or zer, chace ground cables		ALS NOWSKI		
	Labour charges for laying of 1.1 KV class UG cable when supplied				
	departmentally / agency in existing trench GI pipe / stoneware pipe / on wall / on pole as required				
2 2 7 1		1			
9.15.1	3.5C x 50 Sqmm XLPE cable	Mtrs.	100	8.00	800.00
	(SR 2010-11) page 68, Item 11.(I).(b)				
0.15.2	3.5C x 25 Sqmm XLPE cable	Mtrs.	150	8.00	1200.00
	(SR 2010-11) page 68, Item 11.(I).(b)				
1.15.3	4 C x 16 Sqmm XLPE cable	Mtrs.	3000	5.00	15000.00
	(SR 2010-11) page 67, Item 10(I)(a)	4.33	0.400		
9.16	End Termination of above cables with glands crimping type				
	copper sockets.		W.		
.16.1	3.5C x 50 Sqmm XLPE cable (SR 2010-11)	Nos.	4	340.00	1360.00
	Page 69 & 72 item 17(d) & 26()()			010.00	1300.00
.16.2	3.5C x 25 Sqmm XLPE cable (SR 2010-11)	Nos.	4	215.00	860.00
	Page 69 & 72 item 17(d) & 26()().			210.00	300.00
16.3	4C x 16 Sqmm XLPE cable (SR 2010-11)	Nos.	300	150.00	45000.00
	Page 69 & 72 item 17(d) & 26()()			100.00	43000.00
0.17	Supplying and fixing L.T.cast iro pot heads suitable for 1.1KV class UG Cable filled with necessary bitumen/insulating compound with terminals, clamps, bolts, nut and washers etc.,				
a)	35 sqmm (SR 2010-11) page 69, Item 16(e)	Nos.	4	313.00	1959.00
	25 sqmm (SR 2010-11) page 69, Item 16(e)	Nos.	4		1252.00
.18	Digging of trench of 0.6 mtr deepx0.50 mtr wide refilling the ternch to the required ground level and consolidating etc., complete(as per civil. SR KSRB 1-2,P-7)	1405.		286.00	1144.00
	a. In soil(hard)	Rmtr	2000	50.00	100000.00
	SR 2010-11) Page 68, Item 12(b)	3000			100000.00
19	EARTHING				
9.1	Supplying fixing, wiring earth electrode for grounding conduits,	Nos.	6	1950.00	11700.00
	.C.cutouts and other equipments on the meter board using 40mm dia				11,00.00
1	2.90 thick GI pipe 2.5 mtr long buried in a pit The pit should be filled				
12					
1	with equal proportion of salt and charcoal 150mm alround the pipe to				
1	omplete depth. The connection from the pipe to the conduit etc, is to be				
i c	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3, of IS				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3. of IS 32 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe				
e 7	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3. of IS 32 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe hall have 16 through holes of 12.2mm dia. (SR 2010-11)				
e e 7 s	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3. of IS 32 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe hall have 16 through holes of 12.2mm dia. (SR 2010-11) age-67, item-7				
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3. of IS 32 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe hall have 16 through holes of 12.2mm dia. (SR 2010-11) age-67, item-7 upply & laying following GI Flat/wires as Earthing conductors from				
e 7 s p	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3. of IS 32 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe hall have 16 through holes of 12.2mm dia. (SR 2010-11) age-67, item-7 upply & laying following GI Flat/wires as Earthing conductors from quipment to earth stations.		,		
o s e	omplete depth. The connection from the pipe to the conduit etc, is to be stablished through GI wire of size as oer ISI specification 7.3.3. of IS 32 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe hall have 16 through holes of 12.2mm dia. (SR 2010-11) age-67, item-7 upply & laying following GI Flat/wires as Earthing conductors from quipment to earth stations.	Mtrs	300	121.00	36300.00

Sl. No.	Description of work	Unit	Quantity	Ratein	Amount in Rs
9.21	Miscellaneous			Rs.	
	Providing and laying reinforced cement concrete pipe NP2 150mm dia for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300	Mtrs.	100	389.00	38900.00
	(Pg No. 225, I.No.34 7.1 of PW,P&IWTD SR 2011-12)				
0.00				Towns I am	6235502.00
9.22	Miscellaneous & Rounding off				4498.00
-			Total Amo	unt in Rs.	6240000.00
		UNSAUTE S			

0

Project: Proposed Improvements Corridor along Selected Stretch of Choru Koad

Name of the Work: Construction of Flyover at Basaveshwara Nagar 1st Main Road
Junction

SI. No.	Particulars	Cost in Rs.
1	Surface Level Roads / Slip Roads	00221000
2	Drain Works	20754000
	a. Road Side Drain and Footpath	/16660000
	b. Culverts across Roads	1134000
	c. Construction of Retaining Wall	
3	Median, Kerb and Reconstruction of Retaining wall along Service Road	1920000 2861000
	Road Furniture and other Works	4550000
The state of the s	Flyover Works	4779000
	Flyover Approaches	35538000
The second second second second	Site Clearance and Dismantling	37025000
177	Diversion Road	1544000
		8093000
	Electrical Works	2690000
	Construction Cost	132998000



ಕ್ರಾಯಕ್ಷಕಾಲಕ ಅಣ್ಣಯಂತರರು (ಯೋಜನೆ ವಿಭಾಗ ಕೆಲಕೆಲೆ-1) ಬೃಸತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಏಾಆಕೆ

Project: Proposed Improvements Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Flyover at Basaveshwara Nagar 1st Main Road Junction

Detailed Cost Estimate

Sl. No	Description of Work	Unit	N	o. Lengt	h Bread	th Deptl	Quantity	Rate in Rs.	Amount in F
				m	m	m	1		1000000
1.00	SURFACE LEVEL ROADS/ SLIP ROADS						-		
1.01	KSRRB M300-11. Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 meters (average lead 50 meters), including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MoRT&H Specification No. 301					,			
	(P.No.150, I.No.19.11 of PW, P & IWTD S.R 2011-	12)							
	Surface level Roads		,		†	1.			
	East side of Flyover - Main Carriageway				- C. T. S.				
	Ch 1700 to Ch 1530		place I	1 170.00	11.6	8 1.09	2163.38		
	Ch 1540 to Ch 1340		-	1 200.00			1733.10	:	
	Below Obligatory Span			1 40.00		_	385.86		
	At Junction			50.00			591.33		
	Service Road East Side	-		00.00	10.00	1.03	391.33		4.4
	Ch 1540 to Ch 1240			300.00	6.60	1.09	9150 57		
	For Left Turn From Service Road			40.00			2156.57		
	Service Road West Side			-	-	-	231.08		
	Total West Side	-		100.00	6.60	1.09	719.40		
		-			-	-	7980.71		
		-			-	Say	7981.00	70.36	561559.12
t.	KSRRB M100-4.2. Haulage of materials by ipper Including cost of loading, unloading and tacking complete as per specifications. MoRT&H Chapter 1 Case-I: Surface Road	Cum					. :	•	
(1	P. No.141&147 of PW, P&IWTD S.R 2011-12)				Table 1	- AS-1-2			
	nty same as item no 1.01		1						
F	or 20Km Rs. 2 X 1.3 X 20 = (52.00 + 62.20) X 08= 123.34		1	-7981.00	-	-	7981.00	123.34	984376.54
si co co ea	SRRB M300-55. Construction of subgrade and carthen shoulders with approved material gravel murrum with all lifts & leads, transporting to te, spreading grading to required slope and impacted to meet requirement of Table 300-2 mplete as per specifications (including cost of orth, watering charges & compaction by bratory roller) MORTH Specification No. 305	Cum							
(P	No.156, I.No.19.62 of PW,P&IWTD S.R 2011-12)						-		
	rface level Roads							-	
Ea	st side of Flyover - Main Carriageway							-	
	1700 to Ch 1530	-	1	170.00	11.68	0.50	992.38		
	1540 to Ch 1340		1	200.00	7.95	0.50	795.00	-	
	low Obligatory Span.		1	40.00	8.85	0.50	177.00		
Process and	Junction	-	il	.50.00	10.85	0.50	271.25		
At	o anction								
	rvice Road East Side	1:	1	: :	.	0.00	211.20		

Sl. No.	Description of Work	Unit	t N	o. Leng	gth	Bread	th Der	th Qu	antity	Rate in R	s. Amount in
				m	-	m	n				5.
	For Left Turn From Service Road		-		.00	5.3			06.00		+
	Service Road West Side	1	-	1 100.		6.6			-		
	Filling Tree Roots area	-	-		.00	2.0			30.00		
	g total and -	-	-	2.	.00	2.0	2.		80.00		
		-	-	-	-		-		40.88		
1.04	KSRRB M400-7 Construction of granular sub-	C	-	-	-		S	ay 37	41.00	174.9	6 654525
1	base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per specifications. For Coarse graded granular sub-base material as per 400-2 For Grading I Material.								:		
-								1			
(P.No.164, I.No.20.6.1 of PW,P&IWTD S.R 2011-12	2)									
	Surface level Roads			1000		Yeller					
E	East side of Flyover - Main Carriageway										
C	Ch 1700 to Ch 1530		1	170.0	0	11.68	0.2	0 39	6.95		
C	Ch 1540 to Ch 1340 .	1000	1		_	7.95	-	-	8.00		
В	Below Obligatory Span		1	40.0	_	8.85			0.80		a more a series de la companya del companya del companya de la com
A	At Junction		1	- 50.0	-	10.85		-	8.50		
S	ervice Road East Side			00.0	+	10.00	0.20	100	0.00		
	Ch 1540 to Ch 1240		1	300.00		6.60	0.20	20	5.70		
F	or Left Turn From Service Road	_	1	40.00	-	5.30		_	2.40		
	ervice Road West Side		1	100.00	_	6.60	0.20	-	2.00		
			-	100.00	+	0.00	0.20				
		-			+	-		1464		1050.84	1538955.18
of pa sur acl	echanical mix plant carriage of mixed method tipper to site, laying in uniform layers with ever in sub base / base course on well prepared rface and compacting with vibratory roller to hieve the desired density complete as per ecifications. MORTH Specification No. 406.										
(P.,	No.166, I.No.20.18 PW,P&IWTD S.R 2011-12)		1			-			-		
Su	rface level Roads			With the same					1		
	st side of Flyover - Main Carriageway										
_	1700 to Ch 1530		1	170.00		11.68	0.25	496.	19		
-	1540 to Ch 1340		1	200.00		7.95	0.25	397.	-		
	low Obligatory Span		1	40.00		8.85	0.25	88.5	-		
-	Junction		1	50.00	1	10.85	0.25	135.6	-		
	vice Road East Side										
-	1540 to Ch 1240		1	300.00		6.60	0.25	494.6	3		-
	Left Turn From Service Road		1	40.00		5.30	0.25	53.0	-		
Ser	vice Road West Side		1	100.00		6.60	0.25	165.0	0		
		1			7.			1830.4	and the same of the same of		
					S=0107		Say	1830.5	-	1060.56	41355.08
surf road 0.60	RRB M500-6. Providing and applying Primer Sq t with bitumen emulsion on prepared ace of granular Base including clearing of surface and spraying primer at the rate of kg/sqm using mechanical means complete as specifications. MORTH Specification No.502	m									
									1		and the second second second second

Compet action of Liborer	at Lindaredinain Lingui	10t HILLI IWAG CHICEFO

SI. No	Description of Work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs
				m	m	m			
	East side of Flyover - Main Carriageway								
	Ch 1700 to Ch 1530 ·	a demiss	1	170.00	11.68		1984.75		
	Ch 1540 to Ch 1340		1	200.00	-	-	1590.00		
	Below Obligatory Span :		1	40.00		-	354.00		
	At Junction		.1	50.00	10.85		542.50		200
	Service Road East Side								
	Ch 1540 to Ch 1240		1	300.00	6.60		1978.50		
+1	For Left Turn From Service Road		1	40.00	5.30	3 7	212.00		
	Service Road West Side		1	100.00	6.60		660.00		
				Contract of	•		7321.75		
						Say	7322.00	40.59	297173.62
1.07	KSRRB 500-8 Providing and applying tack coat on granular surface treated with primer at 3 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machienries complete as per specifications. MORTH Chapter 5			•				estate of the second of the se	
	(D No. 179 I No. 91 9 of DW D&IWTD S D 9011 19)		1		or males i				
	(P.No. 172 I.No.21.8 of PW,P&IWTD S.R 2011-12) Surface level Roads								
	East side of Flyover - Main Carriageway .								
	Ch 1700 to Ch 1530		1	170.00	11.68		1984.75		
			1	200.00	7.95		1590.00		
	Ch 1540 to Ch 1340		1	40.00	8.85		354.00		
	Below Obligatory Span				10.85		542.50		
	At Junction		1	50.00	10.85		542.50		10,01 5.1
	Service Road East Side		1	300.00	6.60	14 k	1978.50		
	Ch 1540 to Ch 1240		1	40.00	5.30		212.00		
	For Left Turn From Service Road		1	100.00	6.60		660.00		
	Service Road West Side		1	100.00	0.00				
						Say	7321.75	19.98	146293.56
						Say	7322.00	13.30	140253.00
	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with								
	crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregaters with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to acheive the deisred density, 50 / 75 mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 with 60 / 70 grade bitumen								
2	P.No.172 I.No. 21.11.2 of PW,P&IWTD S.R 2011-1 Surface level Roads	2)							
	East side of Flyover - Main Carriageway								
(Ch 1700 to Ch 1530		1	170.00	11.68	0.05	99.24		
	Ch 1540 to Ch 1340		1	200.00	7.95	0.05	79.50		
E	Below Obligatory Span	.]	1	40.00	8.85	0.05	17.70		
A	At Junction		. 1	50.00	10.85	0.05	27.13		
	Service Road East Side				· .				
0	Ch 1540 to Ch 1240		1	300.00	6.60	0.05	98.93		
	or Left Turn From Service Road		1	40.00	5.30	0.05	10.60		7 (24)

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Sl. No.	Description of Work	Unit	. No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			
	Service Road West Side		1	100.00	6.60	0.05	33.00		
							366.09		
						Say	366.50	6490.61	2378806.9
	KSRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour HOM of machineries complete as per specifications, MORTH Chapter 5								
	(P.No.172 I.No.21.7 of PW.P&IWTD SR of 2011-12	2)							
	Surface level Roads		524				-0.486	T-01141	
	East side of Flyover - Main Carriageway								
	Ch 1700 to Ch 1530		1	170.00	11.68		1984.75		
	Ch 1540 to Ch 1340		1	200.00	7.95		1590.00		
	Below Obligatory Span		1	40.00	8.85		354.00		
	At Junction		1	50.00	10.85		542.50		
	Service Road East Side								
	Ch 1540 to Ch 1240		1	300.00	6.60		1978.50		
	For Left Turn From Service Road		1	40.00	5.30		212.00		
	Service Road West Side		1	100.00	6.60		660.00		
	Battery Limit		-:			Fort In			
1	Towards Shivnagar 1st Main Road Jn.		1	100.00	18.60		1860.00		
1	Towards Magadi Road		1	100.00	20.50		2050.00		- P. C.
1	Towards Basaveshwara Nagar		1	100.00	10.00	- /	1000.00		
		450					12231.75		
		- 78				Say	12232.00	16.46	201328.93
		- Inne							
97	KSRRB M500-17. Providing and laying dense graded bituminous macadam with 100-120 IPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with								
tu fi le v d cl s _I	ottuminous binder at 4.0 to 4.5% by weight of otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H pecification No. 507								
to the second se	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507							į.	
b to w find the v d d colors and the same series of	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No. 21.19.2 of PW, P&IWTD S.R 2011-1 urface level Roads								
b to we have a second control of the second	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignmnet, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H pecification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 purface level Roads last side of Flyover - Main Carriageway							ì	
b to we find the second of the	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530			170.00	11.68	0.05	99.24		
b to we have a second of the s	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignmnet, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H pecification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340		1	200.00	7.95	0.05	79.50		
b to with the second se	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignmnet, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H pecification No. 507 P.No. 174 I.No.21.19.2 of PW.P&IWTD S.R 2011-urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span	12)	1	200.00	7.95 8.85	0.05 0.05	79.50 · 17:70		
b to which the second s	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignmnet, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction	12)	1	200.00	7.95	0.05	79.50		
b to the transfer of the trans	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignmnet, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads last side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction ervice Road East Side	(2)	1 1	200.00 - 40.00 50.00	7.95 8.85 10.85	0.05 0.05 0.05	79.50 • 17:70 27.13		
b to we find the second of the	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction ervice Road East Side h 1540 to Ch 1240	(2)	1 1 1 1	200.00 - 40.00 50.00 300.00	7.95 8.85 10.85 6.60	0.05 0.05 0.05	79.50 • 17:70 27.13		
b to we find the second of the	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads last side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction ervice Road East Side h 1540 to Ch 1240 or Left Turn From Service Road	12)	1 1 1 1 1	200.00 - 40.00 50.00 300.00 40.00	7.95 8.85 10.85 6.60 5.30	0.05 0.05 0.05 0.05 0.05	79.50 · 17:70 27.13 · 98.93 · 10.60	,	
b to we find the second of the	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction ervice Road East Side h 1540 to Ch 1240 or Left Turn From Service Road ervice Road West Side	(2)	1 1 1 1 1	200.00 - 40.00 50.00 300.00	7.95 8.85 10.85 6.60	0.05 0.05 0.05	79.50 • 17:70 27.13		
b to we will be	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignmnet, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 purface level Roads last side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction ervice Road East Side h 1540 to Ch 1240 or Left Turn From Service Road ervice Road West Side attery Limit		1 1 1 1 1	200.00 	7.95 8.85 10.85 6.60 5.30 6.60	0.05 0.05 0.05 0.05 0.05 0.05	79.50 · 17:70 27.13 · 98.93 · 10.60 · 33.00		
b to we will be	otal mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver inisher with sensor control to the required grade, evel and alignment, rolling with smooth wheeled, ibratory and tandem rollers to achieve the esired compaction as per MoRT&H specification lause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 P.No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1 urface level Roads ast side of Flyover - Main Carriageway h 1700 to Ch 1530 h 1540 to Ch 1340 elow Obligatory Span t Junction ervice Road East Side h 1540 to Ch 1240 or Left Turn From Service Road ervice Road West Side		1 1 . 1 1 1 1	200.00 - 40.00 50.00 300.00 40.00	7.95 8.85 10.85 6.60 5.30 6.60	0.05 0.05 0.05 0.05 0.05	79.50 · 17:70 27.13 · 98.93 · 10.60		

Sl. No	Description of Work	Uni		INO. L	ength	Bread	th Dep	th Quant	ity Rate in Rs	. Amount in
					m	m	m			
								611.	59	
							S	ay 612.		1 5419957
			T						0000.1	041000,
1.11	KSRRB M500-7: Providing and applying tac	k Sqn			- Vani					-
	coat on the prepared black topped surfaces	at	1						1	
	2.5kg per 10 sqm, heating bitumen in boiler fitte	d	1							
	with spray set (excluding cleaning of roa	d								
	surface) including cost of all materials, labou	r								Maria Strate
	HOM of machineries complete as pe			1.			1			
	specifications. MORTH Chapter 5	1.				100		1.00		
		1 .				a suga				
	(D.):									
	(P.No.172 I.No.21.7 of PW,P&IWTD SR of 2011-	(2)								
	Surface level Roads			6						
	East side of Flyover - Main Carriageway		1							
	Ch 1700 to Ch 1530			1 1	70.00	11.68	3	- 1984.7	5	
	Ch 1540 to Ch 1340	1200	148		00.00	7.98	_			
	Below Obligatory Span	1		_	10.00	8.88		1590.0		
	At Junction							- 354.0		
_	Service Road East Side			1 (50.00	10.85	-	542.5	0	
				-						
	Ch 1540 to Ch 1240			_	00.00	6.60	-	1978.50		
_	For Left Turn From Service Road			1 4	0.00	5.30	-	212.00		
	Service Road West Side	100		1 10	0.00	6.60		660.00		
	Battery Limit						7	-		
1	Towards Shivnagar 1st Main Road Jn.			1 10	0.00	18.60		1860.00		
	Towards Magadi Road			_	0.00	20.50				
	Towards Basaveshwara Nagar			_	0.00		-			
	Cross Roads ·		-	1 10		10.00		1000.00		-
_	Ch 1720, 1540, 1480, 1600	-		+ .	-		No. 13 COL			
			-	-	0.00	6.00		1200.00	Marcon Sales III	
-10	Ch 1620, 1360, 1280		٠,	3 5	00.0	5.50		825.00		
								14256.75		
							Say	14257.00	16.46	234658.81
2 F	KSRRB M500-19. Providing and laying	Cum								
b	oituminous concrete 40 mm thick with 100 -									
	20 TPH batch type hot mix plant producing an	re e								
	verage output of 75 tonnes per hour using									
100	rushed aggregates of specified grading,			1						
	remixed with bituminous binder at 5.4 to 5.6%									
0	f mix and filler, transporting the hot mix to					- 3.2				
w	ork site, laying with a hydrostatic paver			1						
6	nisher with sensor control to the required grade.									
120	msher with sensor control to the required grade,							150		
lie	vel and alignment, rolling with smooth wheeled,			E.E.						
IVI	bratory and tandem rollers to achieve the			12.7						
1	esired compaction as per MoRT&H specification			200						
de		NAME OF								
de cl:	ause No. 500.9 complete in all respects as per				1					
de cl:	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No.									The second
de cl:	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No.	• •								
cl: sp	ause No. 500.9 complete in all respects as per pecifications. MORTH Specification clause No. 00.9 complete in all respects as per									1
sp 50 sp	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509	.								
sp 50 sp w	ause No. 500.9 complete in all respects as per pecifications. MORTH Specification clause No. 00.9 complete in all respects as per pecifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading	.								
sp 50 sp w	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509									
de cl: sp 50 sp wi	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading) with 6% 60/70 grade using 40-60 HMP	•								
sp 50 sp wi II)	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011-	12)	•							
sp 50 sp Will)	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads	12)								
de cli sp 50 sp will) (P. Su Ea	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway	12)		· :						
de cl: sp 50 sp wi II) (P. Su Ea	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530	12)		170.	:		0.04	79.39		
de els sp 50 sp will) (P. Su Ea Ch Ch	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530 1540 to Ch 1340	12)	1 1			11.68	0.04	79.39		
de els sp 50 sp will) (P. Su Ea Ch Ch	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530	12)	1 1 1	170, 200, 40,6	00	11.68 7.95		63.60		
de cl. sp 50 sp will [P. Su Ea Ch Ch Be]	ause No. 500.9 complete in all respects as per eccifications. MORTH Specification clause No. 00.9 complete in all respects as per eccifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530 1540 to Ch 1340	12)	1	200.0 40.0	00	11.68 7.95 8.85	0.04	63.60 14.16		
de clissp 50 sp wi II) (P. Su Ea Ch Ch Bel	ause No. 500.9 complete in all respects as per pecifications. MORTH Specification clause No. 00.9 complete in all respects as per pecifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530 1540 to Ch 1340 low.Obligatory Span Junction	12)	1	200.	00	11.68 7.95 8.85	0.04	63.60		
de clissp 50 sp will) (P. Su Ea Ch Ch Bel At Ser	ause No. 500.9 complete in all respects as per pecifications. MORTH Specification clause No. 10.9 complete in all respects as per pecifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530 1540 to Ch 1340 low-Obligatory Span Junction vice Road East Side	12)	1 1 1	200.0 40.0 50.0	00	11.68 7.95 8.85 10.85	0.04 0.04 0.04	63.60 14.16 21.70		
de cl: spp 50 sp wi II) (P. Su Ch Ch Bel At Ser Ch	ause No. 500.9 complete in all respects as per pecifications. MORTH Specification clause No. 00.9 complete in all respects as per pecifications. MORTH Specification No. 509 ith 30-45 mm compacted thickness (grading with 6% 60/70 grade using 40-60 HMP. No.175 of I. No.21.22.4 in PW,P&IWTD S.R 2011-rface level Roads st side of Flyover - Main Carriageway 1700 to Ch 1530 1540 to Ch 1340 low.Obligatory Span Junction	12)	1	200.0 40.0	00 00 00	11.68 7.95 8.85 10.85	0.04	63.60 14.16		

Sl. No.	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs
				m	m	m			
	Battery Limit								
	Towards Shivnagar 1st Main Road Jn.		1	100.00	18.60	0.04	74.40		
	Towards Magadi Road		-1	100.00	20.50	0.04	82.00		
	Towards Basaveshwara Nagar		1	100,00	10.00	0.04	40.00		
	Cross Roads ·		0	. 0.00	0.00	0.04	:		
	Ch 1720, 1540, 1480, 1600		4	50.00	6.00	0.04	48.00		
	Ch 1620, 1360, 1280		3	50.00	5.50	0.04	33.00		
				7			570.27		
						Say	570.50	11208.63	6894522.73
									20753513.82
	Miscellaneous and Rounding off								486.18
				Series.				TOTAL	20754000.00

Sl. No	Description of Work	U	nit	No.	Length	Brea	dth	Depth	Quantit	y Rate in Rs.	Amount in
PH I		9			m	m		m			
2.00				CALLY						1.	
	a) For Road side Drains							97			
2.01	KSRRB M300-11. Excavation for road way	in Cu	ım								
	soil by mechanical means including cutti	ng									
	and pushing the earth to site of embankme	nt	1.	7					355		
	upto a distance of 100 meters (average lead	50				18					100
	meters), including trimming bottom and si	de	1								
	slopes in accordance with requirements of line grades and cross sections complete as p	es,									
	specifications. MoRT&H Specification No. 301	er					-				
	specifications, Mottrati Specification Ne. 301										
					and the same						
	(P.No. 150, I.No. 19.11 of PW, P & IWTD S.R 201	1-12)						72.4			
	Road side Drain										4
	LHS Ch 1800 - 1240 .	•		1	510.00	1.:	10	1.35	757.35		
	RHS Ch 1800 - 1240			1	517.00	1.	10	1.35	767.75		
	Towards Basaveshwara Nagar			2	100.00	1.1	10	1.35	297.00		
	Cross Roads		1	2X7	50.00	1.1	10	1.35	1039.50		
	For Catch Drain			123	0.70	0.8	30 (0.80	54.97		
	For Rain water Hervesting		1	37	2.00	0.5	50 2	2.05	74.91		
	SSTEW - CONTROL -								2991.47		
								Say	2991.50	70.32	210358.6
2.02	KSRRB M2100-13. Plain Cement Concret	e Cun	n							i	
P	M15 with OPC cement @ 240kgs, with 40mm and	d	1								
0	lown size graded granite metal coarse aggregate	S									
100	0.84cum and fine aggregates @ 0.56cum in	n	1								
17	Open foundation complete as per Drawing and	i i	1.						200		
	Technical Specifications. MORTH. Specification No. 1500, 1700 & 2100	4	1				1 2 5				
1	40. 1500, 1700 & 2100										
	*		1.								
	P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-1	2)								CONTRACTOR OF THE	The state of the s
	or Drain Bed	8,84								S. Chestar V.	
	oad side Drain										
	HS Ch 1800 - 1240		L.	1 :	510.00	1.10	•0.	10	56.10		
	HS Ch 1800 - 1240			1 .	517.00	1.10	0.	10	56.87		
	owards Basaveshwara Nagar			2	100.00	1.10	0.	10	22.00	and the second	
	ross Roads		_	7	50.00	1.10	0.	10	77.00	and the Bridge	and the year of
	or Catch Drain		-	23	0.70	0.80	-	10	6.87		
FC	or Rain water Harvesting	1	3	37	2.00	0.50	0.	10	3.65		
									222.50		N ESTATION AND
02 775	CDDD pade				- 100		Sa	ay	222.50	3724.92	828794.70
03 KS	SRRB 2200-5.9. Design mix M20 with OPC	Cum									
ce	ment @ 320kgs, with 20mm and down size					- 195					
0.6	aded granite metal coarse aggregates @ 59cum and fine aggregates @ 0.46cum, with						300				
SIII	perplastisiser @ 3lts confirming to IS9103-1999									100	
Re	affirmed-2008 i) Upto 5 m height				100				Of the		
	a soo iy opto o in neight			1							
(P	No.227, I.No.28.7.9 of PW, P& IWTD SR 2011-1	37.		-				+			
For	r Drain Bottom slab	4)	-	+	-			+-			
	IS Ch 1800 - 1240	-		1 5	10.00	0.00	0.1	-	20.02		
	IS Ch 1800 - 1240			-	17.00	0.90	0.1	-	68.85		
	wards Basaveshwara Nagar	-	- 1	_	00.00	0.90	0.18	-	69.80		
	oss Roads		-2X7	_	50.00	0.90	0.18	_	27.00 94.50	-	
_	Catch Drain		123	-	0.60	0.70	0.10	-	10.31		
	Rain water Hervesting	1	37	-	2.00	0.40	0.10	-	2.92		
1 01	e Walls	1	01	-	2.00	0.40	0.10	-	2.52		
				-			No.				
Side	S Ch 1800 - 1240		9	51	0.001	0.15	1 00	1	52 001		
Side LHS	S Ch 1800 - 1240 S Ch 1800 - 1240		2	_	7.00	0.15	1.00	_	53.00		8
Side LHS RHS	S Ch 1800 - 1240 S Ch 1800 - 1240 yards Basaveshwara Nagar		2 2	51	7.00 0.00	0.15 0.15	1.00	1	53.00 55.10 60.00		

8

SI. N	o. Description of Work	Uni	t N	o. Ler	igth	Breadt	h Deptl	Quantit	y Rate in Rs	Amount in
				1	n	m	m	1		
	For Catch Drain		1 13	23	0.40	0.2	0 0.30	2.9	4	
			2 12	23	0.70	0.2	0 0.30	10.3	1	
			1 12	23	2.00	0.1	0 0.20	4.9	1	
	Top Slab				ATTENDED			N. 4		
	LHS Ch 1800 - 1240			1 48	0.00	0.9	0.10	43.2	0 ,	
	RHS Ch 1800 - 1240			1 48	7.00	0.90	0.10	43.8	3	
	Towards Basaveshwara Nagar		1	2 100	0.00	0.90	0.10	18.00		
								974.66	6	
							Say	975.00	4931.28	4807998.
2.04	KSRRB M2200 - 6. Supplying, fitting and placing TMT bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200				•				1	
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)						-		7	
	Steel at 70 kg/cum			-				68.25	- 1000 000	
							Say	68.50	68274.71	4676817.3
2.05			0.04							
	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of Engineer in-Charge.									16.5
	(Data Rate)		1	-	+			-		
	Drain Cover Slab		1	-	+	-	-			
13	LHS Ch 1800 - 1240		1	30.	20	0.90	-	27.00		
	RHS Ch 1800 - 1240	-	1	30.0	-	0.90		27.00		
	Towards Basaveshwara Nagar		2	10.0		0.90		18.00		
	Cross Roads		2X7	50.0	_	0.90		630.00		
	For Tree Surrounding		45	1.6	-	1.50	-	101.25		
	Single Control of the				-	1.00	-	803.25		
					+		Say	803.50	1465.00	1177127.50
					+	-	Day	803.30	1465.00	11//12/.50
	Providing and laying reinforced cement Foodcrete pipe NP3 of 300mm dia for culverts including pointing ends, and fixing collars with the cement mortar 1:2 including cost of all materials, abour curing complete as per specifications. Specification No.KSRB 1000, 2300 MoRT&H Specification No. 1000 / 2300	Rmt .								
(Pg.No. 257, I.No. 34.6.1 of PW, P&IWTD SR 2011-1	2)			T					
F	or Catch Drain at 10m interval	1	123	1.60	0			196.32		
							34 1	196.50	1506.60	296046.90
										FL 180
e: W C Si	SSRB M220 - 8. Providing weep holes in Brick Nasonry / Plain / Reinforced concrete abutment, ing wall / return wall with 100mm dia AC pipe, stending through the full width of the structure ith slope of 1V:20H towards drawing foce. complete as per drawing and Technical pecifications complete as per specifications. ORTH Specification No. 2706 & 2200	los.								
P	No 229 , INo 28.10 of PW,P&IWTD S.R 2011-12)	+	-							
-	HS Ch 1800 - 1240	-	52		_					

Sl. No	Description of Work	Uni	t No	. Length	Breadt	h Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			
	RHS Ch 1800 - 1240	1.	1 . 5	3 -			53.00	Constant	
	Towards Basaveshwara Nagar		2 1	1	-		22.00		
	Cross Roads	2X	7	6		-	84.00		
						1	211.00	100000000000000000000000000000000000000	
						Say	211.00	148.23	31276.53
2.08	KSRRB 2100-6: Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers wherever necessary watering and ramming including cost of all materials, labour complete as per specifications. MoRT&H Chapter 12								
Year by	P.No 221, I.No 27.14 of PW, P & IWTD SR 2011-1	2)							
	For Rain water Harvesting	37	1	1.00	1.00	0.05	1.83		
	To Take Hatteding	-		1.00	1.00	Say	2.00	1796 00	2452.24
						Say	2.00	1726.92	3453.84
	Providing & Filling of Aggregates to required depth in drain trench including cost of all materials, labour with all lead & lifts etc.,complete as per drawing and technical specification 20mm nominal size						. :	•	
	(Data Rate)								
	For Rain water Harvesting	37	1	. 1.00	1.00	0.075	. 2.74		
						Say	3.00	1194.00	3582.00
	Providing & Filling of Boulders to required depth in drain trench including cost of all materials, labour with all lead & lifts etc.,complete as per drawing and technical specification 40mm nominal size								
((Data Rate)							-	
-	For Rain water Harvesting	37	1	1.00	1.00	0.40	14.62		
						Say	15.00	894.00	13410.00
it a	KSRB 14.6-1: Providing & laying heavy duty cobble stones 75mm thick interlock pavers, using cement & course sand for manufacture of blocks of approved size , shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg hickness) and compacting with plate vibrator laving 3 tons compaction force thereby forcing eart of sand underneath to come up in between conts, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries specifications.								
(F	P.No.108 of I.No.14.7 in PW,P&IWTD SR 2011-12)	TE!							
	ainwater Harvesting	37	1	1.00	1.00	**	36.54	~	
	ootpath							_	
L	HS Ch 1800 - 1240 ·		1	510.00	1.50		765.00	-	
	HS Ch 1800 - 1240		1	517.00	1.50		775.50	Charles ()	
R				100.00	1.50		300.00		
	owards Basaveshwara Nagar			The second second second second		-			
To									
To Be	owards Basaveshwara Nagar etween Service Road and Main Carriageway HS Ch 1800 - 1240		1	510.00	3.00		1530.00		
To Be LI	etween Service Road and Main Carriageway		-	510.00 517.00	3.00		1530.00 1551.00		
To Be LI	etween Service Road and Main Carriageway HS Ch 1800 - 1240		-						

Sl. No	Description of Work	Uni	t N	lo. Leng	th B	readth	Deptl	h Quantity	Rate in Rs	Amount in
				m		m	m			
0.10	No.	-	-		1					
2.12	M.S Grating for Catch Drains	Sqm	-							
	(Data Rate)		1	23 0.	50	0.50	-	30.68		
		_	1				Say	31.00	8765.0	271715
9 19	VCDD 0.2 Dilli II II D		-	-	-	1.	*,			
	KSRB 2.3: Filling available Excavated Eart (excluding rock) in sides of foundations upt plinth in layers not exceeding 20cms in depth compacting each deposited layer by rammin after watering with lead upto 50m and lift upt 1.5 m including cost of all labour complete as pe specifications. Specification No.KBS 2.9	n, g	1							,
	(P.No.6, I.No.2.10 of PW, P&IWTD S.R 2011-12)	-	-		-					
	LHS Ch 1800 - 1240	-	-	2 52.0	10	0.10	1.00	10.10		
	RHS Ch 1800 - 1240	-	-		-	0.10	1.00		•	
	Towards Basaveshwara Nagar	-	-	2 53.0 4 11.0	-	0.10	1.00			
	Cross Roads	-	4X	_	-	0.10	1.00			
-	For Catch Drain	2	· 12			0.10	1.00	16:80		
	Tot Cauch Drain	3	• 12	3 . 0.5	U	0.10	0.70	12.88		
		-		-	+	-	C	55.08		
					+	-	Say	55.50	97.20	5394.
2.14	Removing B. S. Slab of Drain and Stacking	Sqm		+	+	-				
	P.No.28, I.No.5.32 of PW, P&IWTD S.R 2011-12)			-	-					
	Service Road West Side			-	-	-				
	Ch 1800 - 1440			200.0	-	1 00				
	Ch 1420 - 1240				-	1.20		432.00		
	Service Road East Side		1	180.00	1	1.50		270.00		
	Ch 1800 - 1550			050.00	-	1 00	-			
	Ch 1380 - 1280		1		-	1.20	-	300.00		
	on 1000 - 1200		1	100.00	1	1.20		120.00		
-					-	-	-	1122.00		
.15 R	efixing stone slabs of drains and pointing in 2.M.(1:3)	Sqm	1				Say	1122.00	47.52	53317.4
(I	P.No.28, I.No. 5.33 of PW, P&IWTD S.R 2011-12)									
	ty same as				-		-	1122.00		
						92.5		1122.00	59.40	66646.8
tip lo. ex	SRRB M100-4.1. Cost of Haulage including oading and Unloading of Stone Boulder / Stone garegates / Sand / Kanker / Moorum.Placing pper at loading point, loading with front end ader,dumping , turning for return trip, coluding time for haulage and return trip implete as per specifications. MORTH-100/hapter 1 Case-I: Surface Road	Cum	•						50.10	33040.0
(P	.No.141&147, of PW, P&IWTD SR 2011-12)		-							
Qr	nty same as item no 2.01- 2.13			•						
Fo	r 20Km Rs. 2 X 1.3 X 20 = (52.00 + .2)X1.08=123.34		1	2936.00				2936.00	123.34	3 62126.24
							700			6 58439.99
7 Mi	scellaneous and Rounding off							Road Side		1560.01

	Description of Work	: Un	it .	Vo. Leng	h Bread	h Depth	Quantity	Rate in Rs.	Amount in
				m	m	m			
2b)	Culverts Across the Roads								
2.18		nd of of ed 3.	n .					:	
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011	19)	-	+					
	8m Length .	1	-	-					
	CH- 1620, 1280, 1360	1 8		1 8.0	0 1.30	1.60	49.92		
	10m Length			1	2.01	1.00	40.02		
	CH- 1620, 1720	2		1 10.0	1.30	1.60	41.60		
	12m Length			1	1	2.00	11.00	and the second	
	CH- 1500	1		1 12.0	1.30	1.60	24.96		
	15m Length			V CONTRACT		2.00	21.00		
	CH- 1540	1		1 15.00	1.30	1.60	31.20		
		1.					147.68		
						Say	148.00	40.99	6065.9
								10,00	
	down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in			N4 - 75	e	7.3			
1	Open foundation complete as per Drawing and Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100								4. •
1	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100								
1	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12								
1	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12 om Length	2)							
()	Pechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-12 om Length CH- 1620, 1280, 1360			8.00	1.30	0.10	3.12		
(C) 1	Pechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12 Bm Length CH- 1620, 1280, 1360 Om Length	3							
(C) 11 C	Pechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-12 of PL 1620, 1280, 1360 Om Length CH- 1620, 1720	2)			1.30	0.10	2.60		
	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-13 of Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length	3		10.00	1.30	0.10	2.60		
	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-13 om Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500	3		10.00	1.30	0.10	2.60		
	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-13 M Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length	3 3 2 2 1	. 1	10.00	1.30 1.30	0.10	2.60		
	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-13 om Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500	3		10.00	1.30	0.10	2,60 1.56		
	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-13 M Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length	3 3 2 2 1	. 1	10.00	1.30 1.30	0.10	2.60 1.56 1.95 9.23	3724 92	35386 74
	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-12 of PW. P&IWTD S.R 2011-12 of PW. 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540	2) 3	. 1	10.00	1.30 1.30	0.10	2,60 1.56	3724.92	35386.74
(0 1 1 1 1 1 1 1 1 1	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW, P&IWTD S.R 2011-13 om Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length	2) 3	. 1	10.00	1.30 1.30	0.10	2.60 1.56 1.95 9.23	3724.92	35386.74
() () () () () () () () () () () () () (Pennical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW.P&IWTD S.R 2011-13 of Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540 SRRB 2200-5.18. Design mix M35 with OPC of Market and John Size added granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with aperplastisiser @ 31ts confirming to IS9103-1999 of Enfirmed-2008 i) Upto 5 m height	2)	. 1	10.00	1.30 1.30 '1.30	0.10	2.60 1.56 1.95 9.23	3724.92	35386.74
(C) 11 CC 11 CC 21	Pechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW,P&IWTD S.R 2011-13 Em Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540 SRRB 2200-5.18. Design mix M35 with OPC ement @ 390kgs, with 20mm and down size raded granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with aperplastisiser @ 3lts confirming to IS9103-1999	2)	. 1	10.00	1.30 1.30 '1.30	0.10	2.60 1.56 1.95 9.23	3724.92	35386.74
(C 1 C C C C C C C C	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW,P&IWTD S.R 2011-13 om Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540 SRRB 2200-5.18. Design mix M35 with OPC oment @ 390kgs, with 20mm and down size raded granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with aperplastisiser @ 3lts confirming to IS9103-1999 of firmed-2008 i) Upto 5 m height No. 227, I.No. 28.7.18 of PW. P& IWTD SR 2011-10ttom slab in Length	2)	. 1	10.00	1.30 1.30 '1.30	0.10	2.60 1.56 1.95 9.23	3724.92	35386.74
0 K cee gr 0. su Re	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW.P&IWTD S.R 2011-13 of Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540 SRRB 2200-5.18. Design mix M35 with OPC of the ment @ 390kgs, with 20mm and down size raded granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with aperplastisiser @ 3lts confirming to IS9103-1999 of the metal coarse aggregates agree of the metal coarse aggregates of the perplastisiser @ 3lts confirming to IS9103-1999 of the metal coarse aggregates of the perplastisiser of the perplastisiser of the perplastise of the	2)	. 1	10.00	1.30 1.30 '1.30	0.10	2.60 1.56 1.95 9.23	3724.92	35386.74
(P Bo Snn CH	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW,P&IWTD S.R 2011-13 om Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540 SRRB 2200-5.18. Design mix M35 with OPC oment @ 390kgs, with 20mm and down size raded granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with aperplastisiser @ 3lts confirming to IS9103-1999 of affirmed-2008 i) Upto 5 m height No. 227, I.No. 28.7.18 of PW, P& IWTD SR 2011-15ttom slab in Length H- 1620, 1280, 1360	2 2 1 1 1 Cum		10.00	1.30 1.30 '1.30	0.10 0.10 0.10 Say	2.60 1.56 1.95 9.23 9.50	3724.92	35386.74
(C)	Fechnical Specifications. MORTH Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.24 of PW,P&IWTD S.R 2011-13 om Length CH- 1620, 1280, 1360 Om Length CH- 1620, 1720 2m Length CH- 1500 5m Length CH- 1540 SRRB 2200-5.18. Design mix M35 with OPC oment @ 390kgs, with 20mm and down size raded granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with aperplastisiser @ 3lts confirming to IS9103-1999 of firmed-2008 i) Upto 5 m height No. 227, I.No. 28.7.18 of PW. P& IWTD SR 2011-10ttom slab in Length	2 2 1 1 1 Cum		10.00	1.30 1.30 '1.30	0.10 0.10 0.10 Say	2.60 1.56 1.95 9.23 9.50	3724.92	35386.74

SI. N	o. Description of Work	Uni	t I	No. 1	Length	Breadt	h Depth	Quantity	Rate in Rs	Amount in
					m	m	m	1 .		
	12m Length			1						
	CH- 1500			1	12.00	1.1	0 .0.25	3.30	Street Const	
			1		•	100				
	15m Length				to .					
	CH- 1540	- 1		1	15.00	1.1	0.25	4.13		The second
		41						19.53		THE RESERVE OF THE PERSON NAMED IN
	Sidewalls :									
	8m Length									
	CH- 1620, 1280, 1360	3		2	8.00	0.28	1.00	12.00		
100	10m Length								2 - 0 70	
	CH- 1620, 1720	2		2	10.00	0.28	1.00	10.00	The second second	
	12m Length									
	CH- 1500	1	Carrie	2	12.00	0.25	1.00	6.00		
	15m Length	- :					DA			
	CH- 1540	. 1		2	15.00	0.25	1.00	7.50		
						I SEA		35.50		
						1	Vet Qty	55.03		
							. Say	55.50	5489.64	304675.0
		6.2.	. 1 .							
2.21	KSRRB M2300-7.1. Furnishing and Placing									
	Reinforced / Prestressed cement concrete in									
	super-structure as per drawing and Technical									
	Specification complete as per specifications.					5.5				
	D.RCC/PSC with OPC cement design mix M35 @			1			8 10 1			+
	390kgs, with 20mm and down size graded granite									
	metal coarse aggregates @ 0.68cum and fine	1.0		0-0		10				4 1
	aggregates @ 0.45cum, with superplastisiser @			1	185	~ + : 1				100
	3lts confirming to IS9103-1999 Reaffirmed-2008.									
	Case-I: Using Concrete Mixer. MORTH Specification No. 1500, 1600 & 1700 - Height									
	upto 5m						767 F			
	P. N.o 236, INo 29.13.1 of PW, P & IWTD SR 2011-	19)		-	-					
	Covering slab	14)		+ -			-			·
_	8m Length	-		+		-		•		
	CH- 1620, 1280, 1360	3	- 1	-	8.00	1.10	0.25	6.60		
1	011-1020, 1250, 1500	- 3	- 1	+	0.00	1.10	0.25	6.60		
1	10m Length	•		1						
	CH- 1620, 1720	2	1	1	0.00	1.10	0.25	5.50		
1				+-	0.00	1.10	0.20	5.50		
	12m Length			-	-		-			
	CH- 1500	1	1	1	2.00	1.10	0.25	3.30		
		+	-	1	2.00	1.10	0.20	0.00		
	15m Length	1		-			_			
_	CH- 1540	1	1	1	5.00	1.10	0.25	4.13		
1			-	-	0.00	1.10	0.20	19.53		
1					-		Say	20.00	5920.56	118411.20
1						-	Day	20.00	. 5920.56	118411.20
2 F	SRRB M2200 - 6. Supplying, fitting and placing I	MT				-				
	MT bar reinforcement in sub - structure									
	omplete as per drawing and technical									
s	pecifications complete as per specifications.									
N	IORTH Specification No. 1600 & 2200				6					
		- 1								and the second
10	No 220 I N. ac a -C DW De TWED CD cott to	-								
	P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)			• •	-+ .			9.06		

31.	No. Description of Work	Uni	t N	b. Lengt	h Breadt	h Depth	Quantity	Rate in Rs.	Amount in
				m	m	m			
2.2	KSSRB M220 - 8. Providing weep holes in Brid masonry / Plain / Reinforced concrete abutmen wing wall / return wall with 100mm dia AC pipe extending through the full width of the structure	t.							
	with slope of 1V:20H towards drawing foce Complete as per drawing and Technical Specifications complete as per specifications	al .							
	MORTH Specification No. 2706 & 2200	1.							
	P.No 229 , INo 28.10 of PW,P&IWTD S.R 2011-12	2)			rather t				
	8m Length								
	CH- 1620, 1280, 1360		· £				6		
	10m Length								
	CH- 1620, 1720				-				
	011 1020, 1720		5		-		. 5		
	12m Length				100				
	CH- 1500	-	3				. 3		
	15m Length					Estate I			
	CH- 1540		4				4		
							18		
						Say	18.00	148.23	2668.1
2.24	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9	.a							'6' A.'
	(Pg.No. 6, I.No. 2.10 of PW, P & IWTD S.R 2011-12)							
	8m Length			.: :					
	CH- 1620, 1280, 1360	3	2	8.00	0.10	1.50 .	7.20		24062
	10m Length	-	-	-					
	CH- 1620, 1720	2	2	10.00	0.10	1.50	6.00		
	19 T1		_						
	12m Length CH- 1500		0	10.00	2.10				
3 7	C11- 1500	1	2	12.00	0.10	1.50	3.60		
	15m Length	-	-						
	CH- 1540	1	2	15.00	0.10	1.50	4.50		
					0.10	1.00	21.30		
		75				Say	21.50	97.20	2089.80
i i	KSRRB M100-4.1: Cost of Haulage including Cloading and unloading of stone Boulder?:Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1	Cum .							2000.00
(Conveying up to 20km by Mechanical means.								
(P. No.141&147 of PW, P & IWTD S.R 2011-12)						W 140 - 20		
	Onty same as item no 2.18, 2.24				080 se	1	26.50		831183
							26.50	123.34	15602.51
-									
1	Aiscellaneous & Rounding off	91							33509.04

R

SI. No	Description of Work	Uni	t No	. Length	Breadt	h Depth	Quantity	Rate in Rs.	Amount in I
			1	m	m	m			
2b)	9	1							
2.27	for foundation of structures as per drawing and technical specifications. Including setting out construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved								
	material complete as per specifications, B. Mechanical Means (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering charges)								
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-1	12)							
	Retaining Wall		1	150.00	1.58	1.35	318.94		FEIR SEZE
						Say	319.00	41.0	13074.5
0.00	Wanne de la								
2.28	KSRRB M100-4.2. Haulage of materials by tipper including cost of loading, unloading and stacking complete as per specifications. MoRT&H Chapter 1 Case-I: Surface Road	SIL							
	(P. No.141&147 of PW, P&IWTD S.R 2011-12)								
	Qnty same as item no 2.27					55.5			
	For 20Km Rs. 2.00 X 1.30 X 20 = (52.00 + 62.20)X1.08=122.47			-	-	-	319.00		
						Say	319.00	123.34	39345.46
	granite metal coarse aggregates @ 0.63cum and fine aggregates @ 0.42cum i) Upto 5m height. P.No. 226 I.No 28.7.1 of PW,P&IWTD SR 2011-12)								
	Retaining Wall		1	150.00	1.58	0.15	35,44		_
						Say	35.50	3938.76	139825.98
								:	
g G S	KSRRB 2200-5.18. Design mix M35 with OPC ement @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5 m height	Cum							
(1	P.No.228, I.No. 28.7.18 of PW, P& IWTD SR 2011-1	2)							
	Retaining Wall								
	Sottom Slab .		1	150.00	0.875	0.20	26.25		
S	tem .		1	150.00	0.20	1.00	30.00		
-		-	-			Say	56.25 56.50	5489.64	3 10164.66
		1				Day	00.00	0400.04	310101.00
T cc	SRRB M2200 - 6. Supplying, fitting and placing MT bar reinforcement in sub - structure emplete as per drawing and technical pecifications complete as per specifications. ORTH Specification No. 1600 & 2200	MT							
(P	.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)	-	-						
1.40		-	-			-		-	
	ty same as item no 2.24	1					And the second second		
Q	ty same as item no 2.24 onsidering 125kg/cum						7.06		12060.29

Sl. No.	Description of Work	Uni	N	o. Length	Breadt	h Depth	Quantity	Rate in Rs.	Amount in Re
				m	m	m			
			1		·				
2.32	KSRB M2300 2.2: Furnishing and Placing Reinforced / Prestressed Cement Concrete in Super-structure as per drawing and technical specification complete as per specifications. A. RCC- with OPC cement design mix M20 @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum; with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. Case-II: Using Batching Plant, Transit Mixer & Concrete Pump, MORTH								
	Specification No. 1500, 1600 & 1700 - i) Upto 5m height.								
	(P.No 233 INo 29.4.1 of PW,P&IWTD SR 2011-12)					L,			
	Area of Crash Barrier = 0.386 Sqm			1 150.00	0.3	1	57.90		
	KSRRB M2300 - 14. Supplying, fitting and placing TMT bar reinforcement in super- structure complete as per drawing and technical specifications complete as per specifications MORTH Specification No. 1600	MT				Say	58.00	5282,28	306372.24
	(P.No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12	2)	_						
-	Considering 125kg/cum	100			-		7.25		
						Say	7.50	69013.85	517603.85
i a s v	Media with granular materials / stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full neight compacted to a firm condition complete as per drawing and Technical Specification complete is per specifications MORTH Specification No. 10.1.4 of IRC: 78 & 2200	٠		•					
0	P.No.229, I.No.28.13 of PW,P&IWTD S.R 2011-12)								
	or Retaining Wall		1	150.00	0.40	1.00	60.00		
05 5	CODDD Mood					Say	60.00	665.28	39916.80
a p a M 2:	SRRB M2200 - 8.1. Back filling behind obstance, wing wall and return wall complete as er drawing and Technical Specification complete sper specifications. A. Granular Material IORTH Specification No. 710,1.4 of IRC: 78 & 200	Cum					. :		
	P.No. 229, I.No. 28.11 of PW,P&IWTD S.R 2011-12)	-			0.10	1 00			
F	or Retaining Wall	-	· 1·	150.00	0.40	1.00	60.00	077.4	1659400
						Say	60.00	275.4	16524.00

Sl. No	Description of Work	Unit	No	. Length	Breadt	h Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			
2.36	KSSRB M220 - 8, Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications. MORTH Specification No. 2706 & 2200								
	P.No 229, INo 28.10 of PW,P&IWTD S.R 2011-12)		i			-			
	Retaining Wall :		67	0.30	-		20.00		
						Say	20.00	148.23	2964.60
	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8							110.20	2001100
	(P.No.191, I.No. 24.1 of PW,P&IWTD SR 2011-12)								
	Crash Barrier		1	150.00		2.30	345.00		
						Say	345.00	48.492	16729.74
2.38	Miscellaneous and Rounding off	-							1914582.16
								TOTAL	5417.84 1920000.00
					1 20			707.12	20200000
	Median, Kerb & Re - Construction of Retainin		l'alon	g Servic	e Road			- /Eng// 2-1	
	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete Size 450 x 200 x 400 mm	No.	.:						
(P.No.28, I.No.5.29.1 of PW.P&IWTD S.R 2011-12)	+							
I	For Road Kerb							-	
		-	2	560.00		0.45	2489.00		
F	From Ch 1800 - 1240				10				
	From Ch 1800 - 1240 Service Road	+							1.3.5
S			1	510.00		0.45	1133.00		
S	Service Road						1133.00		
I.	HS		1 1	510.00 517.00 96.00		0.45 0.45 0.45	1149.00		
I R	ervice Road .HS :		1	517.00		0.45			
I R	ervice Road .HS .HS cowrads Magadi Road Jn. up to Abutment cowrads Shivnagar 1st main Road Jn. up to butment		1 1	517.00 96.00		0.45	1149.00 213.00		
I R T T A	HS Owrads Magadi Road Jn. up to Abutment Owrads Shivnagar 1st main Road Jn. up to butment Owards Basaveshwara Nagar Or Median Kerb		1 1 2 .	517.00 96.00 56.00		0.45 0.45 0.45	1149.00 213.00 124.00		
I I R T T A T T A F A	HS Owrads Magadi Road Jn. up to Abutment Owrads Shivnagar 1st main Road Jn. up to butment Owards Basaveshwara Nagar Or Median Kerb t Junction		1 1 2 2	517.00 96.00 56.00 100.00 . ; ,		0.45 0.45 0.45 0.45	1149.00 213.00 124.00 · 444.00		
S I I R T T T A A T T A A T T C	HS Owrads Magadi Road Jn. up to Abutment Owrads Shivnagar 1st main Road Jn. up to butment Owards Basaveshwara Nagar Or Median Kerb		1 1 1 2 · · · · · · · · · · · · · · · ·	517.00 96.00 56.00		0.45 0.45 0.45 0.45	1149.00 213.00 124.00 ·		

	Description of Work	Unit	N		Breadt	h Depth	Quantity	Rate in Rs.	Amount in
				'. m '	- m	m	C. Salita		
3.02	KSRB 2 - 2.1: Earthwork excavation for foundation of buildings, culverts, water supply sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications. Specification No. KBS 2.1(a) / 2.3.5	, , , , , , , , , , , , , , , , , , , ,						•	
	(P.No.5, I.No.2.3 of PW, P & IWTD S.R 2011-12)								
	Retaining wall			1 160.00	0.90	1.05	151.20		
		G.SW.				Say	151.50	144.72	21925.
	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates 0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	(P.No.12, I.No.4.3 of PW, P&IWTD S.R 2011-12)				•			1000000	
	Retaining wall		1	160.00	0.90	0.15	21.60		
-						Say	22.00	3799.44	83587.6
							The state of the s		
f H 2 c	KSRB 5.2-3: Providing and constructing granite trap / basalt size stone masonry in coundation with cement mortor 1:6, stone nammered dressed in courses not less than course including cost of materaials, labour, curing complete asper specifications. Specification No. KBS 5.1.13.	Cum							4
/ f 1 2 c c	trap / basalt size stone masonry in coundation with cement mortor 1:6, stone nammered dressed in courses not less than comes high, bond stones at 2m. apart in each ourse including cost of materaials, labour, curing complete asper specifications. Specification No.	Cum							9
/ f H 2 c c c F	trap / basalt size stone masonry in coundation with cement mortor 1:6, stone nammered dressed in courses not less than come high. bond stones at 2m. apart in each ourse including cost of materaials, labour, curing omplete asper specifications. Specification No. IBS 5.1.13.	Cum							
(1) ff	trap / basalt size stone masonry in foundation with cement mortor 1:6, stone nammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each ourse including cost of materaials, labour, curing omplete asper specifications. Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) For Retaining Wall st Footing	Cum	1	160.00	0.75	0.225	27.00	7	,
/ f h 2 c c c c f (1	trap / basalt size stone masonry in foundation with cement mortor 1:6, stone nammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each ourse including cost of materaials, labour, curing omplete asper specifications. Specification No. IBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) For Retaining Wall	Cum	1 1	160.00	0.75 0.60	0.225	27.00 43.20	<i>t</i>	
(1) ff	trap / basalt size stone masonry in foundation with cement mortor 1:6, stone nammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each ourse including cost of materaials, labour, curing omplete asper specifications. Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) For Retaining Wall st Footing	Cum	1 1			0.45	43.20 70.20		,
/f f h 2 c c K (i) F 1 2 2 05 K tr w dr st of	trap / basalt size stone masonry in foundation with cement mortor 1:6, stone nammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each ourse including cost of materaials, labour, curing omplete asper specifications. Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) For Retaining Wall st Footing		1 1			-	43.20	2773.44	195527.52
/f f h 2 c c K (j F 1 2 05 K tr w dr st of sp	trap / basalt size stone masonry in foundation with cement mortor 1:6, stone nammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each ourse including cost of materaials, labour, curing omplete asper specifications. Specification No. ISS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD S.R 2011-12) for Retaining Wall st Footing and footing SRB 5.3-3: Providing and constructing granite / Cap / basalt size stone masonry in basement in the cement mortor 1:6, edges of stones chistle ressed in courses not less than 15cms high, bond ones at 2m. apart in each course including cost materaials, labour, curing complete asper		1 1			0.45	43.20 70.20		-

	o. Description of Work	Uni	t N	o. Leng	th I	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs
				m	1	m	m			
3.06	plain cement concrete of mix M15 with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15 cms.thick well compacted in	3	n	<i>;</i>			•	•		
	foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1,4.2									
	(P.No.12, I.No 4.6 of PW, P&IWTD S.R 2011-12)				+					
	For Plinth at Basement Lvl			1 160.0	0	0.45	0.10	7.20		
	At Top Coping		1.0		_	0.45	0.10	7.20	-	
					+			14.40		
	KSRB 2.3: Filling available excavated earth						Say	14.50	4275.72	61997.94
	after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9									
107	(Pg.No. 6, I.No. 2.10 of PW, P & IWTD S.R 2011-12)				an Spin	EAST T			
	For foundation		10) - X S	Barrier V			1.02			4 1 1
	Same as Qty of Item No.3.43 - I.No.3.44 & 3.45							59.00		
000	VCDDD Mass						Say	59.00	97.20	5734.80
.08	KSRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone	Cum		•						
	aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for eturn trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1									
11	aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for eturn trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1									
11	aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for eturn trip, excluding time for haulage and return trip complete as per specifications MoRT&H Chapter 1									
11	aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for eturn trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1					-		92.50	123.34	11408.95
	aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1 Conveying up to 20km by Mechanical means. Page No.141&147 of PW, P & IWTD S.R 2011-12) Anty same as item no 3.26-3.34								123.34	11408.95
	Aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MoRT&H Chapter 1 Conveying up to 20km by Mechanical means. Page No.141&147 of PW, P & IWTD S.R 2011-12)									11408.95 2860688.17 311.83 2861000.00

Si. No	Description of Work	Uni	t N	lo. Lengt	h Breadt	h Dep	th Quantity	Rate in Rs.	Amount in
	*			m	m	m			
4.00	ROAD FURNITURE & OTHER WORK				100				
4.01	KSRS M800 - 13. Road Marking with H Applied Thermoplastic Compound wi Reflectrising Glass Beads on Bituminous Surfactor - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sq	th ee:							
	area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finishes surface to be level, uniform and free from stread and holes complete as per specification MORTH Specification No. 803.	ed cs	•						
	(P.No.193, I.No.24.15 of PW,P&IWTD,2011-12)	:		1000					
	On Flyover			July State	J. B. (43)				
	Lane Marking line			1 360.00	0.15		- 54.00		
	Edge line			2 360.00	0.20		- 144.00	. 1	
(c)	Directional arrows		4	5.00	0.90		- 18.00		
-	0.8.		Waxan.	Er like					
	On Surface Lane Marking line	-							
(a) 1	Dane Marking line		4		0.15	-	324.00		
7	Power J. D. 1	1	2		0.15		30.00		
(h) E	Towards Basaveshvara Nagar Edge line		2	100.00	0.15	-	30.00		
(0)	edge title					٠			
-	HAT THE RESERVE THE PARTY OF TH		6		0.15		486.00		
T	owards Basaveshvara Nagar		4		0.15		60.00		1
(c) P	edestrain crossings		2		0.15	-			
(0) 1	edestrant crossings		2		0.15		12.00		
			1	10.00	0.15		1.50		
(d) D	rirectional arrows		90	3.00	0.50		135.00		
(d)	rectional arrows		20	5.00	0.90		90.00		
							1414.50		
+						Say	1414.50	429.84	608008.68
ap	SRRB 800-1. Painting two coats after filling a surface with synthetic enamel paint in approved shades on new plastered concrete rfaces, with materials, labour complete as per ecifications. MORTH Chapter 8								
(P.	No.191, I.No. 24.1 of PW,P&IWTD SR 2011-12)						30,000	See E	
Fo	r Kerb Painting							ALCOHOL: N	
	r Road Kerb	S = 10°						-10-20-0	
LH			1	510.00		0.60	.306.00		
_	S		1	517.00		0.60	310.20		
101	wrads Magacli Road Jn. up to Abutment		1	96.00		0.60	57.60		
Abu	wrads Shivmagar 1st main Road Jn. up to		1	56.00	-	0.60	33.60		
Tov	vards Basaveshwara Nagar		2	100.00		0.60	120.00	DATE OF THE	
	Median Kerb						0.00		
	Junction		_	110.00	(0.60	132.00		
100	rads Magadi Road Jn.		_	100.00	(0.60	120.00		
11111111111	rads Shivna gar 1st main Road Jn.		.2	100.00	(0.60	120.00		
Tow									
Tow							1199.40		58166.15

S1. N	o. Description of Work		ait	No.	Lengtl	Bread	th Dep	th Quanti	ty Rate in Rs.	Amount in R
100					m	m	m			
4.03	Road Delinators									
	KSRRB M800-15. Road Delinators: Supply and Installation of delineators (road windicators, hazard markers, object markers), 8 100 cm high above ground level, painted bla and white in 15 cm wide strips, fitted with 80 100 mm rectangular or 75 mm dia circureflectorised panels at the top, buried or pressinto the ground and conforming to IRC - 79 a the drawings complete as per specification MORTH Specification No. 805.	vay 30 - ack 0 x lar ed nd	ch							
	(P.No.194, I.No.24.19 of PW,P&IWTD SR 2011-	12)	+	-	f					
	For Every 5m interval		1				-		1	
	On Surface Road		1	50				- 50.00		
							Sa	_		18252.00
	KSRRB M800-2. Retro-Reflectorised Traff								0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	
2 2 2	cautionary, mandatory, informatory sign as per IRC:67 made of high intensity grade sheeting vide clause 800.1.3, fixed over Aluminium sheeting, 1.5 mm thick supported on a mild steed angle iron post 75mm x 75mm x 6mm firmly fixed to the ground by means of properly designer foundation with M15 grade cement concrete 45cm x 45cm x 60cm, 60cm below ground level as per approved drawing complete as per specifications MORTH Specification No. 801.	n el. d								
(i) (P.No.191, I.No.24.2 of PW.P&IWTD SR 2011-12)		-			10.00			
	oem circular oparking board									
b) S	peed limit board	Each Each	-	5		-		15.00	The Company	
	ompulsary ahead or left turn	Each		6				10.00		
d) 0	vertaking prohibited board	Each		0				6.00		
e) N	o stopping sign board	Each		2				10.00		
-		Buch		-				53.00	2539.08	134571.24
			*	1		.			2000.00	
11) 90	ocm equilateral triangle			1.						
b) No	edestrian crossing sign boards	Each		6				6.00		
~/ ~	Pedestrian crossing sign boards	Each	- (6				6.00		
ii) In	formatory sign boards		-	-	-			12.00	2924.64	35095.68
a) 90	am bish	Each	6					6.00	3632.04	21792.24
				1			-	0.00	3032.04	
mn on 100 m dra	RRB M800-20. Tubular Steel Railing on edium Weight Steel Channel (ISMC Series) 100 in x 50mm: - Providing, fixing and erecting 50 in dia steel pipe railing in 3 rows duly painted medium weight steel channels (ISMC series) mm x 50mm, 1.2 metres high above ground, 2 centre to centre, complete as per approved wings as per specifications. MORTH cification No. 808.	Rmt								
Spe					-		-			
	No. 194, I.No. 24,24 of PW P&IWTD SR 2011 123		- 1							
	No. 194, I.No. 24.24 of PW,P&IWTD SR 2011-12)		1	523	00			523.00		
	No. 194, I.No. 24.24 of PW,P&IWTD SR 2011-12)		1 1	523 523	-			523.00		
	No. 194, I.No. 24.24 of PW,P&IWTD SR 2011-12)		1 1 2		.00			523.00 523.00 200.00		55 2914.72

SI. No	Description of Work	Uni	t No	. Length	Bread	th Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			
4.06	KSRRB M800-35 Providing and fixing of roa stud 100 x 100 mm, die cast in aluminium resistant to corrosive effect of salt and grit, fitte with lense reflectors, installed in concrete of asphlatic surface by drilling hole 30 mm upto depth of 60mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4: 1973 complete as per specifications.	d r a		•					
	(P.No.197, I.No.24.41 of PW,P&IWTD SR 2011-12	2)							
	Spaced at Five meter interval								
	For Every 5m Interval								
	L=360 X 3 = 1080m								
	No's = 1080/5 = 216		216				216	20/40/20	
	on Surface · · · · ·								
	L=300*6 + 360*3=2880m								
	No's = 2880/5 = 456		576				. 576		
	•						792	290.52	230091.84
	Providing Over head Gantry	_	er Sub	1.00	F		1.00	1587593.57	1587593.57
4.08	Providing Cantilever Gantry	As p	er Sub	2.00	-	-	2.00	266173.64	532347.27
									4778833.39
4.09	Miscellaneous and Rounding off								166.61
								TOTAL	4779000.00
_	FLYOVER WORKS KSRRB M2100-2.1 Earthwork in excavation				- July - 15				
	for foundation of structures as per drawing and technical specifications. Including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, B. Mechanical Means (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering charges)								
(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-1	2)							
2	a. Foundation for Standard Span pier		3	5.50	5.50	1.95	176.96		
ŀ	o. Foundation for Obligatory Span pier		2.	8.70	5.70	1.95	193.40		
					A India		370:36		
_						Say	370.50	45.08	16703.84
02 K	ISRRB M2100-13. Plain Cement Concrete	Cum							
M d @	M15 with OPC cement @ 240kgs, with 40mm and own size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in open foundation complete as per Drawing and echnical Specifications. MORTH Specification to 1500, 1700 & 2100		.						
(F	P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12)								-
	Foundation for Standard Span pier		3	4.50	4.50	0.15	9.11		
	Foundation for Obligatory Span pier		. 2	7.70	4.70	0.15			
							19.97		
						Say	20.00	3724.92	74498.40

SI. No	Description of Work	Unit	. No	Lengt	h Bread	th Dep	th Quan	tity Rate in	Rs. Amount in
				m	m	n			
5.03	KSRRB 1100 - 3.1 - Bored cast - in - situ RCC Pile ith OPC cement design mix M-35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregartes @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, excluding Reinforcement complete as per Drawing and Technical Specifications and removal of excavated earth with all lifts and lead upto 1000m complete as per specifications.	Rmt							
a	KSRRB M1100-3.2 B. Pile Diameter = 1000mm, MORTH specifications No. 1100, 1600 & 1700		12	lm f		15.0	0 180.0	7701.	48 1386266.4
b	(P.No.201, I.No.25.4 of PW,P&IWTD S.R 2011-12) KSRRB M1100-3.3 C. Pile Diameter = 1200mm, MORTH specifications No. 1100 & 1700								
	(P.No.201, I.No.25.5 of PW,P&IWTD S.R 2011-12)		12	1.20m f		- 15.00	180.0	0 9933.8	4 1788091.20
	(A) Doing Initial vertical load test for a design pile load of 270 Tons including cost of all equipment, men and material, reaction piles etc (if required) required for the setup complete as per drawing and technical specification and as directed by the Engineer in Charge.	Nos	•						
	(P.No.150, I.No.12.37(a) of NHSR 2009-10)	+	3		-		3.00	171720.00	515160.00
e ((B) Doing Horizontal load test for a design pile load of 20 Tons including cost of all equipment, men and material, reaction piles etc if required) required for the setup complete as per drawing and technical specification and as directed by the Engineer in Charge.	los							
(1		7	3				3.00	212000.00	636000.00
tl w de	ASRRB M1200-47: Providing steel liner 10mm Mick for curbs and 6mm thick for seining of wells including fabricating and setting out as peretailed drawing complete as per specifications. MORTH Specifications No.1200 & 1900	T .				•			
(F	P.No.217, I.No.26.125 of PW,P&IWTD S.R.2011-12)	1.	1						
-			12	8.00	0.148	-	14.21		
+			12	8.00	0.178	-	17.05		
		+		-	-	Say	31.25	65134.80	2051746.20
Re Dr pe des siz 0.6 sup Res	SRRB M1100 - 11.2 Cement Concrete for einforced Concrete in Pile Cap complete as per rawing and Technical Specification complete as respecifications. D.RCC with OPC cement sign mix M35 @ 390kgs, with 20mm and down see graded granite metal coarse aggregates @ 68cum and fine aggregates @ 0.45cum, with perplastisiser @ 3lts confirming to IS9103-1999 affirmed-2008. Case - II: Using Batching Plant, ansit Mixer and Concrete Pump. MORTH ecification No. 1100, 1500 & 1700.								

	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in
				m	m	m			
	a. Foundation for Standard Span pier	Cum	3	4.30	4.30	1.50	83.21		
	b. Foundation for Obligatory Span pier		. 2	7.50	4.50	1.50	101.25		
							184.46	•	
						Say			920780.
	KSRRB M2200 - 6. Supplying, fitting and placing TMT bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications MORTH Specification No. 1600 & 2200	1							
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)	1							
	For Piles & Pile Cap - 100kg/cum						53.01	-,	
	The state of the s	1	-			Say	53.50	20074 71	
						Say	, 55.50	68274.71	3652696.7
	KSRRB 2200-5.18. Design mix M35 with OPC cement @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5 m height	ŀ			/			>	
((P.No.228, I.No.28.7.18 of PW, P& IWTD SR 2011-	12)				-	-		
	Peir		-	Ar	ea				
9	Standard Span Peir		3	1.7	-	3.06	16.23		
	Obligatory Peir		2	1.7		3.20	11.33		
_	Standard Span Peir Beam	-	3	5.50	1.75	0.50	14.44		
	Trapizoidal Area=2.95Sqm	-	3	1.75	2.95	3.6.5.5			
	Obligatory Peir Beam		2	5.50	1.75	0.50	9.63		
	Frapizoidal Area=2.95Sqm		-2	1.75	2.95				
	rapizotaar Area-2.005qiii		- 4	1.70	2.90	-	10.33		
F	Pedestal		-	:		-			
	Standard Span	-	6	1.75	0.80	0.20			
	Obligatory Span	_	4	1.75	0.80	0.30	2.52		
	Songatory Span		4	1.70	0.00	0.30	1.68		
-		-	-			0	· 81.63		
00 7	CORPR 2000 110 P. III	-				Say	. 82.00	5489.64	450150.48
R st Sp P: w co 19	SSRRB 2300 - 11.3. Furnishing and Placing deinforced / Prestressed cement concrete in super tructure as per drawing and Technical pecification complete as per specifications. F. SC with OPC cement design mix M45 @ 440kgs, with 20mm and down size graded granite metal barse aggregates @ 4lts confirming to IS9103-999 Reaffirmed-2008 MORTH Specification to 1500, 1600 & 1700- Height 5m to 10m								
	P.No. 240 I.No. 29.26.2 of PW,P&IWTD S.R 2011-12).					215.00		
	onsidering 215 Cum of volume for 30m SRRB M2700-9 Providing precasting (,				Say	215.00	7434.72	5 98464.80
	Contract of the contract of th	um							
po									
pe	0.1800 & 2300						1		
pe: No			+:	- :-	- +	. -			
No (P.	.No. 251, I.No. 32.9 of PW,P&IWTD S.R 2011-12) onsidering 12.75 cum of volume for Each girder	:	+:	+		+		=	

3

	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in
				m	m	m			
5.11	KSRRB M2300-10.2. Furnishing and Placing	Cum				1		+	
	Reinforced / Prestressed cement concrete in super								
	- structure as per drawing and Technical								11-7-50
	Specification complete as per specifications. RCC						Fair 1995		F-7257
	with OPC cement design mix M-40 @ 420kgs,								Arm Hill
	with 20mm and down size graded granite metal								
	coarse aggregates @ 0.67cum and fine aggregtaes		377					* 18.7	
	@ 0.44 cum with superplastisiser @ 3lts					1			
	confirming to IS9103-1999 Reaffirmed-2008								
	Case - II: Using Batching Plant, Transit Mixer &				F-15 (m)				
	Cocnrete Pump MORTH Specification No. 1500,								
	1600 & 1700, Height 5m to 10m								
	1000 to 1700, Height bill to 10iii					100			
	(P.No.239, I.No.29.22.2 of PW,P&IWTD S.R 2011-	12)	*	F. 1. E.			100		
	Deck slab		1	60.00	8.50	0.25	127.50		
	End Diaphgram	-	6	7.50	0.75	1.80	60.75		
	Crash Barrier								
	Area of Crash Barrier =0.386 Sqm		2	90.00	0.38	36	69.48		
	and di dittill didd bqii						257.73		
						Say	258.00	6299.64	1625307.
F 10	VCDDD Massa a C 1: Fix: 11:	2400				Say	400.00	0299.04	1020007.
5.12	KSRRB M2200 - 6. Supplying, fitting and placing								
	TMT bar reinforcement in sub - structure	100							
6 (7)	complete as per drawing and technical								
	specifications complete as per specifications.								
	MORTH Specification No. 1600 & 2200						- 3	5.00	
	(P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)							•	
	Considering 180kg/cum for Pier						4.96	mine and the	
	Considering 250kg/cum for Pier Beam				-	-	12.47		
	Considering 150kg/cum for Pedestal .						0.63		
		1		: 1			18.06		
				:		Say	18.50	68274.71	1263082.0
								-	
13	KSRRB M2300 - 14. Supplying, fitting and	MT							
	placing TMT bar reinforcement in super -								
	structure complete as per drawing and technical								
	specifications complete as per specifications								
	MORTH Specification No. 1600 Super structure								
	MORTH Specification No. 1000 Super structure					46			
1									
	P No 241 I No 29 29 of PW P&IWTD S R 2011-15	2)				-+			
	(P.No.241, I.No.29.29 of PW, P&IWTD S.R 2011-13	2)			-		42.08		1 13 197
	Considering 15Okg/cum for Slab and Girder	2)	-				42.08		
	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram	2)	-				15.19		
	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder	2)	-		-		15.19 38.70		
	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram	2)	-	 			15.19 38.70 10.42		
	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier	2)	-				15.19 38.70 10.42 106.38		
	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder	2)	-				15.19 38.70 10.42	69013.85	13 49974.6
	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier		-				15.19 38.70 10.42 106.38	69013.85	13 49974.6
.14	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier CSRRB M2300 - 15. High tensile steel wires /) MT	-				15.19 38.70 10.42 106.38	69013.85	13 49974.6
.14	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing,		-				15.19 38.70 10.42 106.38	69013.85	13 49974.6
.14 1 5 5 5	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing, stressing operations and grouting complete as per		-				15.19 38.70 10.42 106.38	69013.85	13 49974.6
.14 1 8 8 8 6	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing, stressing operations and grouting complete as per lawing and Technical Specifications complete as		-				15.19 38.70 10.42 106.38	69013.85	73 49974.68
.14 1 8 8 8 6	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing, stressing operations and grouting complete as per		-				15.19 38.70 10.42 106.38	69013.85	73 49974.6
.14 1 5 5 6 6 6 6 6 6 6 6	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No. 1800	MT	-				15.19 38.70 10.42 106.38	69013.85	73 49974.6
.14 I	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier Considering 15Okg/cum for South Barrier Considering 15Okg/cum for Box Girder Considering 18Okg/cum for End Diaphgram Considering 18Okg/cum for Crash Barrier Con	MT	-				15.19 38.70 10.42 106.38 106.50	69013.85	73 49974.6
.14 I	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier	MT	-				15.19 38.70 10.42 106.38 106.50	69013.85	73 49974.6
.14 I	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier Considering 15Okg/cum for South Barrier Considering 15Okg/cum for Box Girder Considering 18Okg/cum for End Diaphgram Considering 18Okg/cum for Crash Barrier Con	MT	-				15.19 38.70 10.42 106.38 106.50	69013.85	73 49974.6
.14 I	Considering 15Okg/cum for Slab and Girder Considering 25Okg/cum for End Diaphgram Considering 18Okg/cum for Box Girder Considering 15Okg/cum for Crash Barrier	MT	-				15.19 38.70 10.42 106.38 106.50	69013.85	13 49974.63 5 Ø0204.40

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SI. No	Description of Work	Unit	N	o. Lengt	h Bread	th Dept	h Quantity	Rate in Rs.	Amount in F
				m	m·	m			
5.15	KSRRB M2200-15: Supplying, fitting and fixing in position true to line and level POT - PTFE bearings consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel making surface complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements to be as per IRC: 83 Part I and II respectively and other parts conforming to BS: 5400 section 9.1 and 9.2 and clause 2000.6 of MORTH Specification complete as per drawing and approved Technical specifications complete as per specifications. MORTH Specification No.2000 & 2200.				:				
-	(P.No.230, I.No.28.19 of PW,P&IWTD S.R 2011-12)				-	<u> </u>			
		Nos.	-				1.00	110484	110484.00
	b) Guided/ fixed PTFE bearings 180MT vertical Capacity	Nos.					3.00	66290.40	198871.20
5	KSRRB M2200 -12: Supplying, fitting & fixing in position true to line and level sliding plate bearing with PTFE surface sliding on stainless steel complete including all accessories as per drawings and Technical specifications and BS: 5400, section 9.1 & 9.2 (for PTFE) and clause 2000.4 of MORTH specifications, complete as per specifications. MORTH Specifications No.2000 & 2200	Nos.	effe to						
	P.No.230, I.No.28.16 of PW,P&IWTD S.R 2011-12)		10 - A					
8	a) Guided/ free PTFE bearings 300MT vertical						3.00	344736.00	1034208.00
t	o) Guided/ free PTFE bearings 180MT vertical				-		9.00	206841.60	1861574.40
sh p si	KSRRB M2600-9. Providing and laying of a strip is the seal Expansion joint catering of maximum corizontal movement upto 70 mm, complete as the sear approved drawings and standard pecifications to be installed by the manufacturer supplier or their authorised representative insuring compliance to the manufacturer's instructions for installation complete as per pecifications. MORTH pecification No. 2607	Rmt	•						
(F	P.No. 247, I.No.31.9 of PW,P&IWTD S.R 2011-12)		5	8.50			42.50	15675.12	666192.60
la di		qm							
_	farket rate)	-							
	bligatory Span	1	1	20.00	7.05		211.50	-	
	des including Creek Persian	-	2	30.00	7.05	5.05	303.00		
	des including Crash Barrier	-	-	30.00		0.00	303.00	-	
	ottom slab	+	1	60.00	7.50		450.00	-	
_	aunches & Vertical ribs		8	60.00		1.80	864.00		
	THE NAME OF THE PARTY OF THE PA		2	60.00		2.30	276.00		



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- 1	Ε	Б	5		
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SI. No.	Description of Work	Uni	t I	Vo. L	ngth	Bread	th Dept	h Quantity	Rate in Rs.	Amount in
			-		m	m	m			
	Pier at Standard span	1		3	4.71		3.0	6 43.22	10 10 10	
	Pier Beam at Standard span		1	6	5.	.70	100	- 34.20		
	<u> </u>			.6	1.75		2.5			
	Pier at Obligatory span			2	4.71		3.2	The second second second	-	
	Pier Beam at Cbligatory span			.4	5.	70		- 22.80		
				4	1.75		2.50	_		
								2278.63		
							Say		200.00	455800
	KSRRB M500-10. Tack Coat: Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom complete as per specifications. MORTH specification No.503									
((P.No. 172 I.No.21.10.1 of PW,P&IWTD S.R 2011-1	(2)				-				
	Fly over section		1120	1 9	0.00	7.50		675.00		
							Say	675.00	11.08	7479.
5.20 F	KSRRB M2700-1. Providing and laying 12 mm					1000		0.0.00	11.00	1419.
bi tc st bi ch o. sp di te	deck slab excluding prime coat with paving grade of tumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with itumen precoated fine grained hard stone hipping of 9.5 mm nominal size at the rate of .005 cum per 10 sqm and at an approximate pacing of 10 cm center to center in both irections, pressed into surface when the emperature of surfaces is not less than 100deg. In protruding 1 mm to 4 mm over mastic surface, complete as per clause 5100.5 complete as per		•			/				4.1
sp	pecifications. MORTH Specification No. 515 & 702									
27	Poccifications. MORTH Specification No. 515 & 1702 No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12)									
27 (P.	702		1	90.	00	7.50		675.00		
27 (P.	.No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12)		1	90.	00	7.50	Say	675.00 675.00	. 238 68	161109.00
(P. Fly	702 No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12) y over section		1	90.	-	7.50	Say	675.00 675.00	· 238.68	161109.00
Property of the surface of the surfa	No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12) y over section GRRB M500-7: Providing and applying tack at on the prepared black topped surfaces at okg per 10 sqm, heating bitumen in boiler fitted the spray set (excluding cleaning of road rface) including cost of all materials, labour, DM of machineries complete as per ecifications. MoRT&H/ Chapter 5	qm	1	90.	-	7.50	Say		238.68	161109.00
(P. Fly 1 KS cos 2.5 with surficient HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic HO specific (P.N. 1 KS cos 2.5 with surfic	No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12) y over section GRRB M500-7: Providing and applying tack at on the prepared black topped surfaces at okg per 10 sqm, heating bitumen in boiler fitted the spray set (excluding cleaning of road rface) including cost of all materials, labour, DM of machineries complete as per ecifications. MoRT&H/ Chapter 5 No.173 I.No.21.7 of PW,P&IWTD SR of 2011-12)	qm						675.00	238.68	161109.00
P. Special Spe	No.250, I.No.32.1 of PW,P&IWTD S.R 2011-12) y over section GRRB M500-7: Providing and applying tack at on the prepared black topped surfaces at okg per 10 sqm, heating bitumen in boiler fitted the spray set (excluding cleaning of road rface) including cost of all materials, labour, DM of machineries complete as per ecifications. MoRT&H/ Chapter 5	dm	1	•		7.50			16.46	161109.00



		1		12	In .:	In :		T	IA
51. No.	Description of Work	Unit	No.	-	-	-	Quantity	Rate in Ks.	Amount in R
5.22	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading	Cum		m	m ·	m			
	II) with 6% 60/70 grade using 40-60 HMP								
	(P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011	1-12)							
	Fly over section								
MA E			. 1	90.00	· 7.50	0.04	• 27.00		200000000
						Say	. 27.00	11208.63	302632.98
5.23	KSRRB M2700-5. Drainage Spouts complete as per drawing and Technical specification complete as per specifications. MORTH Specification No. 2705	No.							* .
	(P.No.250, I.No.32.5 of PW,P&IWTD S.R 2011-12)								
	At 8m interval on both sides		2	11			23	1216.08	27361.80
	KSRRB 13-9.1: Providing and fixing to wall, ceiling and floor, high density polythylene pipes 6.00 kgf/sq.cm working pressure 160mm outside diameter with special Flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No. KBS 13.2.15.2/13.9		·			u _c			
. 17	(Market Rate)								
	PVC Pipe for rain water disposal		2	122			244.00	1480.00	3 61120.00
	KSRRM M2700-4. Providing fitting and fixing mild steel railing complete as per drawing and technical Specification. Complete as per MORTH Specification No. 2703.2, 1900	m	•	·: :	• •				
	(P.No. 250, I.No. 32.4 of PW, P & IWTD S.R 2011-1	2)	2	90.00			180.00	2762.64	497275.20
1	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9								
(Pg.No. 6, I.No. 2.10 of PW, P & IWTD S.R 2011-12)					-		
	For foundation								

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S!. No.	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			
						Say	166.00	97.20	16135.2
	KSRRB M100-4.2. Haulage of materials by tipper including cost of loading, unloading and stacking complete as per specifications. MoRT&H Chapter 1 Case-I: Surface Road						•		
	(P. No.141&147 of PW, P&IWTD S.R: 2011-12)			4					
	Qnty same as item no 5.01-5.26	0.01						3	
1	For 20Km RS. 2.00 X 1.3 X 20 = (52.00+62.20)X1.08=123.34								
			1	199.50			199.50	123.34	24606.33
5.00									35537424.12
5.28	Miscellaneous & Rounding off								575.88
-								TOTAL	35538000.00
					155				

SI. No.	Description of Work	Unit	N	-			Quantity	Rate in F	Rs. Amount in
6.00	FI VOVER APPROACTION		1:	; m	m	m			
6.01	FLYOVER APPROACHES WORKS				20				
	KSRRB M2100 · 1.1. Earthwork in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved								
	material complete as per specifications. I. Ordinary Soil - A. Manual Means (i) Depth upto 3m. MORTH Specification No. 304	301-01							
-	Add 10% extra for dewatering charges								
	(P.No.220, I.No.27.1 of PW,P&IWTD S.R 2011-12)		-		_	-	-		CAN PARTY
	R.E Wall		2	208.39	1.5	0 150	000.00		
			2		-		937.76		
		-	2	00101			269.28		1
			4	8.50	1.5	0 1.50	38.25		
							1245.29		
-						Say	1245.50	95.87	119408.0
d @ O T	KSRRB M2100-13. Plain Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and lown size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and echnical Specifications. MORTH Specification to 1500, 1700 & 2100	Cum						-	
(P	P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12)								
a.	R.E Wall		2	208.39	1.50	0.15	02.70		
		-		• 59.84	1.50		93.78		
			2	8.50	1.50		3.83		
b.	Friction Slab		2	208.39	2.00				
		_	2	59.84			125.03		
c	Approach Slab	-	2		2.00	0.15	35.90		
	- Approxim Glab	-	-2	8.50	4.00	0.15	10.20		
		-	-	-			295.67		
		-	-	-		Say	296.00	3724.92	1 102576.32
Cor 340 me agg 31ts Ope Tec	GRRB M2100 - 17.1. Plain / Reinforced Cement Concrete design mix M25 with OPC cement @ Okgs, with 20mm and down size graded granite tal coarse aggregates @ 0.70cum and fine gregates @ 0.47cum, with superplastisiser @ seconfirming to IS9103-1999 Reaffirmed-2008, en Foundation complete as per Drawing and chinical Specifications Case - 1: Using Concrete ter. MORTH Specification No. 1500, 1700 & 100.	ım							
100									
(P.N	No. 223, I.No.27.30 of PW,P&IWTD S.R 2011-12)							Mark The Land	
R.E	Wall		2 2	208.39	1.40	0.30	175.05		
-			2	59.84	1.40	0.30	50.27		
			2	8.50	1.40	0.30	7.14		
-		Control of the latest winds.		-					
						1 1	232 45		
			+				232.45 · 32.50	4878.36	134218.70

		Unit	N	o. Lengt	h Brea	dth De	epth	Quantity	Ratein	Rs. Amount in
G DA	VODDD Mass			m	m		m			
6.04	KSRRB M2300- For T-Beam and slabs, including launching of precast girder by launching truss upto 40m span.									
	KSRRB M2300-10.2. Furnishing and Placing Reinforced / Prestressed cement concrete in super structure as per drawing and Technical Specification complete as per specifications. RCC with OPC cement design mix M40 @ 420kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.67cum and fine aggregates @ 0.44cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 Case-II: Using Batching Plant, Transit Mixer & Cocnrete Pump MORTH Specification No. 1500, 1600 & 1700, Height 5m to 10m	Cum								
-10	D No 920 1 N. 90 90 9 40 10 10 10 10 10 10 10 10 10 10 10 10 10									
F	P.No.239, I.No.29.22.2 of PW,P&IWTD S.R 2011-12	2)							N. P. S.	
1	riction Siao		2	208.39	2.0	_	_	333.42		-100/mm18,000
A	approch Slab		2	59.84 8.50	2.0	-		95.74		A STATE OF
A	rea of Crash Barrier = 0.386 Sqm	+	. 2	268.23	4.0	0.3		20.40		
		1	-	200.23	.0	1	_	207.07 656.64		
05 K	SRRB M2300 - 14. Supplying, fitting and M			-		Sa		657.00	. 6299.64	4138863.48
st	lacing TMT bar reinforcement in super -									
st sp M	cructure complete as per drawing and technical pecifications complete as per specifications ORTH Specification No. 1600 Super structure									\$86.39
st sp M	Pructure complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29,29 of PW, P&IWTD S.R 2011-12)									\$86
st sp M	cructure complete as per drawing and technical pecifications complete as per specifications ORTH Specification No. 1600 Super structure						- 1	33.37		\$86525
sp M (P. Co	cructure complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) ansidering 150kg/cum					Say	-	33.37	69013.85	9213348.55
(P. Co 6 KS about per as MC 220	eructure complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) Insidering 150kg/cum SRRB M2200 - 8.1. Back filling behind Cultument, wing wall and return wall complete as a drawing and Technical Specification complete per specifications. A. Granular material DRTH Specification No. 710.1.4 of IRC: 78 & 200	m			-	Say	-		69013.85	9213348.55
(P. Co	existence complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) Insidering 150kg/cum SRRB M2200 - 8.1. Back filling behind cutment, wing wall and return wall complete as a drawing and Technical Specification complete per specifications. A. Granular material ORTH Specification No. 710.1.4 of IRC: 78 & No.227, I.No.28.11 of PW,P&IWTD S.R 2011-12)	m				Say	-		69013.85	9213348.55
(P. Co	eructure complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) Insidering 150kg/cum SRRB M2200 - 8.1. Back filling behind Cultument, wing wall and return wall complete as a drawing and Technical Specification complete per specifications. A. Granular material DRTH Specification No. 710.1.4 of IRC: 78 & 200	m	2	208.39	1.20	1.05	11		69013.85	9213348.55
(P. Co	existence complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) Insidering 150kg/cum SRRB M2200 - 8.1. Back filling behind cutment, wing wall and return wall complete as a drawing and Technical Specification complete per specifications. A. Granular material ORTH Specification No. 710.1.4 of IRC: 78 & No.227, I.No.28.11 of PW,P&IWTD S.R 2011-12)	m	2	59.84	1.20	1.05 1.05	52	33.50	69013.85	9213348.55
(P. Co	existence complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) Insidering 150kg/cum SRRB M2200 - 8.1. Back filling behind cutment, wing wall and return wall complete as a drawing and Technical Specification complete per specifications. A. Granular material ORTH Specification No. 710.1.4 of IRC: 78 & No.227, I.No.28.11 of PW,P&IWTD S.R 2011-12)	m	_			1.05	52 15 2	33.50 .: .: .: .: .: .: .: .: .: .: .: .: .:	69013.85	9213348.55
(P. Co	existence complete as per drawing and technical decifications complete as per specifications ORTH Specification No. 1600 Super structure No.241, I.No.29.29 of PW, P&IWTD S.R 2011-12) Insidering 150kg/cum SRRB M2200 - 8.1. Back filling behind cutment, wing wall and return wall complete as a drawing and Technical Specification complete per specifications. A. Granular material ORTH Specification No. 710.1.4 of IRC: 78 & No.227, I.No.28.11 of PW,P&IWTD S.R 2011-12)		2	59.84	1.20	1.05 1.05	52 15 2 69	33.50 	69013.85 275.40	9213348.55

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S1. No	Description of Work	Unit	. 'N	o. Length	Breadt	h Dept	h Quantity	Rate in R	. Amount in
				m	m	m			
	specified interval. Panels are to be seated in each								
	other using two numbers EPDM rubber seating pad per panel. vertical joints should be covered								
	with Gec-textile filter cloth glued to the panel								
	and horizontal joints to be provided with 25 mm								
	dia. polyethylene foam joint filler, 160 mm dia.		12.5		100				
	PVC pipe of 10 Kg./cm2 wrapped with non woven				-				
	geo textile with perforation of 5mm dia. at			1					
	staggered intervals of 10 cm c/c etc., complete as								
	per approved drawing and specification including cost of hot dip high adherence strip, legs, geo-	530							
	textile cloth, EPDM pad, polyethylene foam, joint								
	fillers, tie strips ,fasteners and all accessories,								
	coping beam(if any), drainage layer, drain pipe			1					
	etc cost of all materials, form work, cost of HYSD			1:00			. :		
	reinforcement steel and fabrication design with								
	all lead and lift, loading, unloading, stacking, hire								
	charges of machineries as approved by the Engineer Member.								
	Bugineer Weimber.								
			T.						
	(Market Rate)								
	for RE walls on the sides	-	2	208.39	-	4.56	1900.52		
	for RE walls behind abutments	-	1	59.84		3.77 7.77	451.19 66.05		
			1	8.50		6.19	52.62		
			•			0.10	2470.37		
						Say	2470.50	5500.00	13587750.00
3.08	KSSRB M2200 - 9. Providing and laying Filter	Cum							
	Media with granular materials / stone crushed								
	aggregates satisfying the requirements laid down n clause 2500.4.2.2. of MORTH specifications to								
	thickness of not less than 600 mm with smaller								
s	size towards the soil and bigger size towards the								
	vall and provided over the entire surface behind								
	butment, wing wall and return wall to the full								
	eight compacted to a firm condition complete as er drawing and Technical Specification complete								
	s per specifications MORTH Specification No.	1.		: :	. 1				
	10.1.4 of IRC: 78 & 2200								
	No need that see to drive he trumb on heart to								
- 1(1	P.No.229, I.No.28.13 of PW,P&IWTD S.R 2011-12)	+	2	208.39	0.60	4.06	1017 00	1	
		+	2	59.84	0.60	3.27	234.81		
				00.01		0.27	1250.09		
						Say	1250.50	665.28	831932.64
00 77	anna see								
	SRRB M300.53. Construction of embankment Cuith approved material Gravel / Murrum with	ım							
	l lifts and leads, transporting to site, spreading,								
	ading to required slope and compacting to meet						2-10		
re	quirement Table 300-2 complete as per								
	ecifications. (which includes cost of gravel /								
	oratory roller) MORTH Specification No. 305								
1	savory rouer) MORTH Specification No. 303								
	NI 150 TALL STREET								
(P	No.156, I.No.19.60 of PW,P&IWTD S.R 2011-12)	-							
(P	No.156, 1.No.19.60 of PW,P&IWTD S.R 2011-12)		1	208.39			6345.48		
(P	No.156, 1.No.19.60 of PW,P&IWTD S.R 2011-12)		1 1 .	208.39 59.84		3.27	1467.58		
(P	No.156, 1.No.19.60 of PW,P&IWTD S.R 2011-12)		1 ,			3.27		146.88	147646.88

Sl. No.	Description of Work	Unit	1	No. Le	ngth	Breadt	h Dep	th Quantity	Rate in Rs.	Amount in
				-19	m	m	m	_		
6.10	KSRRB M400-7 Construction of granular sub- base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per specifications. For Coarse graded granular sub-base material as per 400-2 For Grading I Material.									
	(P.No.164, I.No.20.6.1 of PW,P&IWTD S.R 2011-12	2)	-	+			-			
				1 20	3.39	7.50	0.20	312.59		
					0.84	7.50				
	· · ·				:	•		402.35		
6.11	KSRRB M400-17. Providing laying, spreading			1			Say	402.50	1050.84	422963.1
p n o p s	and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with eaver in sub base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.									
(I	P.No.166, I.No.20.18 PW,P&IWTD S.R 2011-12)	-		-	+		* * .	i.,		* ***
			1	208.	39	7.50	0.25	390.73		
			1	59.	-	7.50	0.25	112.20		
-								502.93		
ro:	SRRB M500-6. Providing and applying Primer Spat with bitumen emulsion on prepared arface of granular Base including clearing of ad surface and spraying primer at the rate of 60 kg/sqm using mechanical means complete as a specifications. MORTH Specification No.502	qm					Say	503.00	1060.56	533461.68
P.	.No.171, I.No.21.6 of PW,P&IWTD S.R 2011-12)	-	-		-					
	-, -, -, -, -, -, -, -, -, -, -, -, -, -	+	1	208.3	9	7.50	-	1569.00		
			1	59.8	-	7.50		1562.93		
		-		30.0	1	7		2011.73		
					1		Say	2012.00	40.59	81659.84
on per spra incl mad	RRB 500-8 Providing and applying tack coat granular surface treated with primer at 3 Kg 10 sqm, heating bitumen in boiler fitted with ay set (excluding cleaning of road surface) luding cost of all materials, labour, HOM of chienries complete as per specifications. PRTH Chapter 5	m							3330	220004
(P.N	No. 172 I No.21.8 of PW,P&IWTD S.R 2011-12)	-	-							
			1	208.39	-	7.50	-	1500.00		
		+	1	59.84	-	7.50		1562.93 448.80		
		-	+	50.04		7.00	-	2011.73		
		1			1000000		1 4			

Sl. No.	Description of Work	Unit	. N	. Length	Breadt	Depth	Quantity	Rate in Rs.	Amount in Rs
				m	m	, m			
	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregaters with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to acheive the deisred density, 50 / 75 mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 with 60 / 70 grade bitumen								
	CD N 170 I N 21 1 1 2 CDW DR HWOO G D 2011	10)							
	(P.No.172 I.No. 21.11.2 of PW,P&IWTD S.R 2011-	(2)		208.39	7.50	0.075	117.00		
			• 1		7.50	-	33.66		
					7.00	0.070	150.88		
		-				Say	151.00	6490.61	980081.45
	coat on the prepared black topped surfaces at				7				
s H	2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as perspecifications. MORTH Chapter 5					本 <u>机</u>			
s H S	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as perspecifications. MORTH Chapter 5)				T S			
s H S	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per)	1	208.39	7.50	83	1562.93		
s H S	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as perspecifications. MORTH Chapter 5)		208.39 59.84	7.50 7.50		1562.93 448.80		
s H S	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as perspecifications. MORTH Chapter 5)	1						
s I S	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 P.No.172 I.Nq.21.7 of PW.P&IWTD SR of 2011-12		1				448.80	16.46	33115.91
.16 Kg TT out sale bit to w fin le vi de cl: spp Sr	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 P.No.172 I.Nq.21.7 of PW.P&IWTD SR of 2011-12 EXERB M500-17. Providing and laying dense traded bituminous macadam with 100-120 PH batch type HMP producing an average utput of 75 tonnes per hour using crushed ggregates of specified grading, premixed with ituminous binder at 4.0 to 4.5% by weight of otal mix and filler, transporting the hot mix to took site, laying with a hydrostatic paver misher with sensor control to the required grade, wel and alignment, rolling with smooth wheeled, bratory and tandem rollers to achieve the esired compaction as per MoRT&H specification ause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H pecification No. 507	Cum .	1				448.80 '2011.73 2012.00	16.46	33115.91
.16 Kg TT out sale bit to w fin le vi de cl: spp Sr	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 P.No.172 I.Nq.21.7 of PW.P&IWTD SR of 2011-12 ESRRB M500-17. Providing and laying dense traded bituminous macadam with 100-120 PH batch type HMP producing an average utput of 75 tonnes per hour using crushed ggregates of specified grading, premixed with ituminous binder at 4.0 to 4.5% by weight of total mix and filler, transporting the hot mix to total mix and filler, transporting the hot mix to total with sensor control to the required grade, well and alignment, rolling with smooth wheeled, bratory and tandem rollers to achieve the esired compaction as per MoRT&H specification ause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H	Cum ,	1	59.84	7.50	Say	448.80 '2011.73 2012.00	16.46	33115.91
.16 Kg TT out sale bit to w fin le vi de cl: spp Sr	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 P.No.172 I.Nq.21.7 of PW.P&IWTD SR of 2011-12 ESRRB M500-17. Providing and laying dense traded bituminous macadam with 100-120 PH batch type HMP producing an average utput of 75 tonnes per hour using crushed ggregates of specified grading, premixed with ituminous binder at 4.0 to 4.5% by weight of otal mix and filler, transporting the hot mix to took site, laying with a hydrostatic paver nisher with sensor control to the required grade, wel and alignment, rolling with smooth wheeled, bratory and tandem rollers to achieve the esired compaction as per MoRT&H specification ause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H specification No. 507 No. 174 I.No.21.19.2 of PW,P&IWTD S.R 2011-1	Cum ,	1	59.84	7.50	Say	448.80 ·2011.73 2012.00	16.46	33115.91
.16 Kg TT out sale bit to w fin le vi de cl: spp Sr	with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 P.No.172 I.Nq.21.7 of PW.P&IWTD SR of 2011-12 EXERB M500-17. Providing and laying dense traded bituminous macadam with 100-120 PH batch type HMP producing an average utput of 75 tonnes per hour using crushed ggregates of specified grading, premixed with ituminous binder at 4.0 to 4.5% by weight of otal mix and filler, transporting the hot mix to took site, laying with a hydrostatic paver misher with sensor control to the required grade, wel and alignment, rolling with smooth wheeled, bratory and tandem rollers to achieve the esired compaction as per MoRT&H specification ause No. 500.7 complete in all respects as per pecifications. Bitumen 60/70 MoRT&H pecification No. 507	Cum ,	1	59.84	7.50	Say	448.80 '2011.73 2012.00	16.46	33115.91

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0.0	
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(53)	
1,000	

Sl. No	Description of Work	Unit	N	o. Leng	rth B	Breadth	Dept	h Quantity	Rate in Re	. Amount in 1
				m	_	m	m	-		
6.17	KSRRB M500-7: Providing and applying taccoat on the prepared black topped surfaces a 2.5kg per 10 sqm, heating bitumen in boiler fitter with spray set (excluding cleaning of road surface) including cost of all materials, labour HOM of machineries complete as perspecifications. MORTH Chapter 5	d d								
	(P.No.172 I.No.21.7 of PW,P&IWTD SR of 2011-1	(2)			1					
Men				1 208.	39	7.50		1562.93		
				1 59.8	84	7.50		448.80		
								2011.73		
			٠	-		·	· · Say	2012.00	16.46	33115.9
	kSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 509.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45 mm compacted thickness (grading I) with 6% 60/70 grade using 40-60 HMP								· ·	* (
(P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011	-12)	le il		1					
			1	208.39	9	7.50	0.04	62.52		
			1	59.84	1	7.50	0.04	17.95		
								80.47		
							Say	80.50	11208.63	902294.62
n te	SRRM M2700 -4. Providing fitting and fixing nild steel railing complete as per drawing and echnical Specification. Complete as per MORTH pecification No. 2703.2, 1900	m·								
(F	P.No. 250, I.No. 32.4 of PW, P & IWTD S.R 2011-1	2)	2	268.23				536.46		
							Say	536.50	2762,64	1482156.36
tij	SRRB M100-4.2. Haulage of materials by oper including cost of loading, unloading and acking complete as per specifications. MoRT&H hapter 1 Case-I: Surface Road	Cum								
(P	. No.141&147 of PW, P&IWTD S.R 2011-12)		-							
-	nty same as item no 6.01	1.		: :						
Fo 62	r 20Km RS. 2.00 X 1.3 X 20 = (52.00 + .20)X1.08=123.34			•						
			1	1245.50				1245.50	123.34	153619.97
21 Mi	scellaneous & Rounding off								mor	25.08
									TOTAL 3	25000.00



	Description of Work	Unit	No	. Lengtl	Breadth	Depth	Quantity	Rate in Re	Amount in R
			-	m	m	m		1 100	/ Induiting
7.00	SITE CLEARANCE AND DISMANTLING	_		1	-				
The state of the s	KSRRB 200-2: Cutting of trees girth from 600mm to 900mm including cutting of trunks branches and removal of stumps stacking of serviceable materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Specification Clause No.201.						. ;		
	(P.No.143, I.No.18.2 of PW,P&IWTD S.R 2011-12)					-	. 2	290.142	580.2
7.02	KSRRB 200-4: Cutting of trees girth from 1800 to 2700mm including cutting of trunks, branches and removal of stumps stacking of serviceable materials with a lead of 100 metres, earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Specification Clause No.201.								
	(P.No.143, I.No.18.4 of PW, P&IWTD SR 2011-12)				3 - 5 -				
		die.					6	1208.52	7251.12
7.03	KSRRB M200-12.1: Dismantling of existing	Cum							
I	structures like culverts, Bridges, retaining walls and other structure comprising of masonry. cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceable material with all lifts complete as per specifications. i) Lime/Cement Concrete. I.By Manual means, A. Lime Concrete, Cement Concrete Grade M-10 & below PCC			: :	•				
(P.No.144, I.No.18.17 of PW,P&IWTD S.R 2011-12)		5	12221					
	Orain Bed								
	LHS		1	421.00	2.10	0.10	88.41		
- 1	RHS	-	1	476.00	1.70	0.10	80.92		
		+	-				169.33	21122	11057 70
						Say	169.50	244.08	41371.56
a ceirr ne di th	ASRRB M200-12.2. Dismantling of existing of tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, isposal of unserviceble material and stacking the serviceble material and serviceble material ith all lifts complete as per specifications. i) ime/Cement Concrete I.By Manual means, A. ime Concrete, Cement Concrete Grade M-15 & I-20 PCC	Cum .				Say	169.50	244.08	41371.56
s a control of the co	tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, isposal of unserviceble material and stacking as serviceble material and serviceble material ith all lifts complete as per specifications. i) ime/Cement Concrete. I. By Manual means, A. ime Concrete, Cement Concrete Grade M-15 & I-20 PCC	Cum .				Say	169.50	244.08	41371.56
s a compared to the compared t	tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, isposal of unserviceble material and stacking as serviceble material and serviceble material in all lifts complete as per specifications. i) ime/Cement Concrete.I.By Manual means, A. ime Concrete, Cement Concrete Grade M-15 & I-20 PCC	Cum .				Say		244.08	41371.56
s a ce in no di th w Li Li M	tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, isposal of unserviceble material and stacking are serviceble material and serviceble material in all lifts complete as per specifications. i) ime/Cement Concrete.I.By Manual means, A. ime Concrete, Cement Concrete Grade M-15 & I-20 PCC	Cum .		150.00	1.80	0.15	40.50	244.08	41371.56
s a a cei ir no di the way Li Li M	tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, isposal of unserviceble material and stacking are serviceble material and serviceble material ith all lifts complete as per specifications. i) ime/Cement Concrete I.By Manual means, A. ime Concrete, Cement Concrete Grade M-15 & I-20 PCC No.144, I.No.18.18 of PW,P&IWTD S.R 2011-12) obtpath HS		1	160.00	1.80	0.15 0.15	40.50 43.20	244.08	41371.56
s a a cei ir no di the way Li Li M	tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, isposal of unserviceble material and stacking are serviceble material and serviceble material in all lifts complete as per specifications. i) ime/Cement Concrete.I.By Manual means, A. ime Concrete, Cement Concrete Grade M-15 & I-20 PCC		1		1.80	0.15	40.50	244.08	41371.56

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С	sa.	
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- 2	- 7	

Sl. No.	Description of Work .	Unit	No	o. Length	Breadtl	Depth	Quantity	Rate in Rs.	Amount in Rs
				m	m	m			
					7.5.15			Section 1	
7.05	VCDDD MOOR IS O. D	10	-				200		
7.05	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry cement concrete, wood work, steel work including T&P and scaffolding wherever necessary, sorting the dismantled material disposal of unserviceble material and stacking						•		
	the serviceble material with all lifts complete as per specifications. ii) Dismantling Stone Masonary B. Rubble Stone Masonry, in Cement Mortar. SSM	3							
	(P.No.145, I.No.18.27 of PW,P&IWTD S.R 2011-12	2)							
	For Drain					2.23			
	LHS		2	421.00	0.45	1.00	378,90		
	RHS	and the	2	476.00	0.45	1.00	428.40		
					value :		807.30		
				1.4		Say	. 807.50	194.40	156978.00
	Removing of Footpath slab	Sqm							
	(P.No.268, I.No. 37.56 of PW,P&IWTD S.R 2011-1	2)							
-	Removing of Drain Precast -Slab								
	LHS		1		1.50		225.00		
	RHS		1	200.00	1.50		300.00		
						-	525.00		
-						Say	525.00	95.796	50292.90
-			•						
7.07	Removing BS Slab of Drain and Stacking	Sqm							·
(P.No.28, I.No. 5.32 of PW,P&IWTD Ş.R 2011-12)								
	HS		1	150.00	2.00		300.00		LIE EL SELL
F	RHS		1	200.00	2.00		400.00		
E	Between Main Carriageway and Service Road		· 1	50.00	1.80	,	90.00		
	Kerb LHS		1	421.00	0.40		168.40		
THE OWNER WHEN	Kerb RHS		1	476.00	0.40		190.40		
N	fedian Kerb		2	500.00	0.40		400.00		
							1548.80		
						Say	1549.00	47.52	73608.48
00 7	2000	-							
u as as A	SRRB 200-22.1: Dismantling of flexible avements and disposal of dismantled materials pyo a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete per specifications II. By Mechanical Means: Bituminous courses. MORTH Specification of 202.	Cum							
I/E	No 140 I No 10 40 CDW DOWND C DOWN		.					-	
(1	No.146, I.No. 18.46 of PW, P&IWTD S.R 2011-12	3)	- 1	360.00	15.00	0.15	910.00		
		-	- 1	360.00	15.00		810.00	160 16	1 29732.84
		-			-	Say	310.00	160.16	1 20102.04



Sl. No.	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			2016
7.09	KSRRB 200-22.2: Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000 metres, stacking serviceable and unserviceable materials seperately complete as per specifications I. By Manual Means: B. Granular courses. MoRT&H Specification No. 202.								
	(P.No.146, I.No.18.45 of PW, P&IWTD' S:R'2011-	(2)		ENTO COLO					
			1	360.00	15.00	0.30	1620.00		
	D:					Say	1620.00	317.52	514382.40
	Dismantling of Existing Culverts. KSRRB M200-12.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material, disposal of unserviceble material and stacking the serviceable material with all lifts complete as per specifications. i) Lime/Cement Concrete I.By Manual means, A. Lime Concrete, Cement Concrete Grade M-10 & below PCC	, -						•	
	(P.No.144, I.No.18.17 of PW,P&IWTD S.R 2011-12)				-	. +		
	Bed Concrete		32.5			- 9	VALUE OF		
	8m Length	3	. 1	8.00	1,70	0.10	4.08		PERSONAL PROPERTY.
-		-	-			Say	4.50	244.08	1098.36
s s c i i r c d t p	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, rement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceable material with all lifts complete as her specifications. ii) Dismantling Stone Masonary B. Rubble Stone Masonry, in Cement Mortar. SSM	Cum							
0	P.No.145, I.No.18.27 of PW,P&IWTD S.R 2011-12)								
	SM						.:		
			1		Co.				
	m Length	3	2	8.00	0.45	1.00	21.60	F 100 F	
	m Length	3	2	8.00	0.45	1.00 Say	-	194.40	4276.80
.12 K st au ce in ne di th	SRRB M200-13.1. Dismantling of existing of tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, asposal of unserviceable material and stacking the serviceable material with all lifts complete as the specifications. By mechanical means, A. ement concrete Grade M-15 & M-20.		2	8.00	0.45		21.60	194.40	4276.80
.12 K st au ce in ne di th pe C-	SRRB M200-13.1. Dismantling of existing tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, cluding T&P and scaffolding wherever ecessary, sorting the dismantled material, sposal of unserviceable material and stacking the serviceable material with all lifts complete as the specifications. By mechanical means, A. ement concrete Grade M-15 & M-20. No.144, I.No.18.20 of PW.P&IWTD S.R 2011-12)		2	8.00	0.45		21.60	194.40	4276.80
.12 K st au ce im ne di th pe C-	SRRB M200-13.1. Dismantling of existing tructures like culverts, Bridges, retaining walls and other structure comprising of masonry, ement concrete, wood work, steel work, acluding T&P and scaffolding wherever ecessary, sorting the dismantled material, is sposal of unserviceable material and stacking the serviceable material with all lifts complete as ear specifications. By mechanical means, A. ement concrete Grade M-15 & M-20.		2	8.00			21.60	194.40	4276.80

S1. N	Description of Work	Unit	N	o. Ler	ngth	Bread	th De	pth Quar	tity Rate in	Rs. Amount in
				-	n	m		n		
7.10		4 .								
7.13	KSRRB M200-17.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling stone masonry. A. Steel Work in all types of sections upto a Height of 5m above plinth level excluding cutting of rivet including dismembering. MoRT&H Specification No.202									
	(P.No.145, I.No.18.33 of PW,P&IWTD S.R 2011-12)			-	+		-			
	Consider 100kg/Cum for Slab		1	9.	.00	-		0	90	
14	Wenne Ac-						Sa		00 928.	80 928.8
	KSRRB M100-4.1. Cost of Haulage including Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kanker / Moorum Placing tipper at loading point, loading with front end loader, dumping , turning for return trip,	Cum						. :		
	complete as per specifications. MORTH-100 Chapter 1 Case-I: Surface Road						nie:	: .	over	
- 10	P.No.141&147, of PW, P&IWTD SR 2011-12) Only same as item No. 7.05, 7.11							197		
	Cotal Qty =2748+117 = 2865 Cum	-			-					
F	For 20Km RS. 2 X 1.8 X 20 = (72.00 + 62.20) X .08 = 144.94		.1	829.5	0		•	829.5	0 144.9	4 120227.73
a ti lo e:	SRRB M100-4.1. Cost of Haulage including Coading and Unloading of Stone Boulder / Stone ggregates / Sand / Kanker / Moorum Placing pper at loading point, loading with front end ader, dumping , turning for return trip, acluding time for haulage and return trip implete as per specifications. MORTH-100/hapter 1 Case-I: Surface Road	um				·		4. 2		
(P	.No.141&147, of PW, P&IWTD SR 2011-12)					-				
0.	nty same as item No. 7.05,7.06,(7.08 X 10),(7.09 X 0.45 X 0.20),7.12,7.14,7.16 & 7.17 r 20Km Rs. 2 X 1.3 X 20 = (52 + 62.20) X 1.08 =	1.	1 3	039.40		. "	, -	3039.40		
12	3.34	1					Say	3039.50	123.34	374891.93
sta Ch	RRB M100-4.2. Haulage of materials by Cu per Including cost of loading, unloading and cking complete as per specifications. MoRT&H apter 1 For Steel	m								
(P.	No.141&147, of PW, P&IWTD SR 2011-12)			Viria.						
For	ty same as item No.7.13 20Km Rs. 2.00 X 7.85 X 20 = (314 + .50)X1.08=447.66	-	1	1.00				1.00	451.12	451.12
1.6										154 2321.76
Mis	cellaneous and Rounding off									678.24
									TOTAL	154 4000.00

- 61		

I. No.	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in R
	Description of the second			m	m	m			
2.00	51 1 D 1			1	 	-			
	Diversion Road KSRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
	(P.No.172 I.No.21.7 of PW,P&IWTD SR of 2011-1	2)			J-278				
	Surface level Roads				20.52	Factor of	0.2 704		
	East side of Flyover - Main Carriageway								Time
	Ch 1700 to Ch 1530		1	170.00	11.68		1984.75		
	Ch 1540 to Ch 1340		1	200.00			1590.00		
	Below Obligatory Span		1	40.00		-	354.00		
W. O	At Junction		1	50.00		-	542.50		
	Service Road East Side			2000	•				
	Ch 1540 to Ch 1240		1	300.00	6.60		1978.50		
	For Left Turn From Service Road		1	40.00	5.30		212.00		
	Service Road West Side		1	. 100.00			660.00		
	Battery Limit		7						
	Towards Shivnagar 1st Main Road Jn.		1	100.00	18.60		1860.00		
	Towards Magadi Road Towards Magadi Road		1	100.00			2050.00		
-	Towards Magadi Road Towards Basaveshwara Nagar		1	100.00	10.00		1000.00		
	Towards Dasavesnwara Nagar		*	100.00	10.00		12231.75		ale de la companie de
						Sav	12232.00	16,46	201328.9
-						Say	12202.00	10.10	
						-			
	120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP								
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP								
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	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530		. 1	170.00	11.68 7.95	·0.04 0.04			
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340		-				79.39		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span		1	.200.00	7.95	0.04	79.39 63.60		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span		1	.200.00	7.95 8.85	0.04	79.39 63.60 14.16		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span. At Junction Service Road East Side		1	.200.00	7.95 8.85	0.04	79.39 63.60 14.16		
2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span At Junction Service Road East Side Ch 1540 to Ch 1240		1 1 1	.200.00 40.00 50.00	7.95 8.85 10.85	0.04 0.04 0.04	79.39 63.60 14.16 21.70		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW,P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Selow Obligatory Span At Junction Service Road East Side Ch 1540 to Ch 1240 For Left Turn From Service Road		1 1	.200.00 40.00 50.00 300.00	7.95 8.85 10.85 6.60 5.30	0.04 0.04 0.04 0.04	79.39 63.60 14.16 21.70		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span At Junction Service Road East Side Ch 1540 to Ch 1240 For Left Turn From Service Road Service Road West Side		1 1	.200.00 40.00 50.00 300.00 40.00	7.95 8.85 10.85	0.04 0.04 0.04 0.04 0.04	79.39 63.60 14.16 21.70 79.14 8.48		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span At Junction Service Road East Side Ch 1540 to Ch 1240 For Left Turn From Service Road Service Road West Side Battery Limit		1 1	.200.00 40.00 50.00 300.00 40.00 100.00	7.95 8.85 10.85 6.60 5.30 6.60	0.04 0.04 0.04 0.04 0.04	79.39 63.60 14.16 21.70 79.14 8.48		
	average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, wibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with 30-45mm compacted thickness (grading II) with 6% 60/70 grade using 40-60 HMP P.No.175 of I.No.21.22.4 in PW.P&IWTD S.R 2011 Surface level Roads East side of Flyover - Main Carriageway Ch 1700 to Ch 1530 Ch 1540 to Ch 1340 Below Obligatory Span At Junction Service Road East Side Ch 1540 to Ch 1240 For Left Turn From Service Road Service Road West Side		1 1 1 1 1	.200.00 40.00 50.00 300.00 40.00	7.95 8.85 10.85 6.60 5.30	0.04 0.04 0.04 0.04 0.04 0.04	79.39 63.60 14.16 21.70 79.14 8.48 26.40		

39₀ 41

Sl. No.	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs
SI. No.	Description of work			m	m	m			
			-				489.27		
		· ·				Say	489.50		5486623.80
8.03	KSRRB M800-43: Installation of a steel portable barricade with horizontal rail 300mm wide, 2.5m in length fitted on a 'A' frame made with 45x45x5mm angle iron section, 1.5m in height, horizontal rail painted (2coats) with yellow and white stripes, 150mm in width at an angle of 45degree, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications.		•						
	(P.No.198, I.No.24.44 of PW,P&IWTD SR 2011-12		294.6		-	-	295.00	2214.00	653130.00
8.04	Supplying, fabricating, erecting, and fixing in position, inserts and embedment, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles,								
	channels, steel beams, rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straightening, cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes,	480				•			164 P. W.
	devices and plants, Welding Electrodes, Bolts, Nuts, Washers, Clamps, connections, Shims and Packing Pieces etc., required for the Work as per the specifications and Drawings complete with all lead and lifts as directed by the Engineer-incharge.				8.				
	Data Rate								
,	MS Sheet 2mm thick for Barricading						17.78		
	755 x 1.5 x 0.002 x 7850 =18298.35kg Say 18.3MT		17				17.80	61000	1085800.00
	KSSRRB M800 - 46. Positioning of a smart flagman with a yellow vest and a yellow cap and a red flag 600 x 600 mm securely fastened to a staff 1 m in length for guiding the traffic complete as per specifications.								
9-12	(P.No.199, I.No.24.49 of PW,P&IWTD 2011-12) Considering 5 Nos. per day for a period of 15months		2250	-	-	•	2250.00	281.88	634230.00
\$ \$ \$	Providing and fixing Project Display Board of size 1.80 vertical x 1.60 mtrs. Horizontal made of cold rolled coil 16 Gauge (1.6mm thickness) sheeting strengthened by welding to MS angle of size 35x35x5mm iron framework on all sides, extra cross vertical angle fixed using nuts and colts, base of the board shall be cleaned, applying red oxide	Nos.					. :		

A	
1752	
1.15	
700	
44.5	

SI. N	o. Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in R
				m	m	m			
	and black paint by sprayer on both sides of the board and all MS iron frameworks, background of the facing side of the board painted in traffic yellow, project information written in English / Kannada / Hindi, painting letters and numeral in black, fixed on a mild steel angle iron post 75 mm x 75 mm x 6mm, 2Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60cm below ground level and the board 2.8m from ground level as per approved drawing including cost of all materials, labour, unloading, curing backfilling, transporting etc., complete.								
	(P. No.81, Item no 8.47 of NHSR 2009-10)		4			-	4.00	1	
	A STATE OF THE STA						4.00	7960.60	31842.40
0.00	V6 11	,,:						Service and the	8092955.13
0.07	Miscellaneous and Rounding off				3325		•		44.87
				area area				TOTAL	8093000.00

Project: Proposed Improvements Corridor along Selected Stretch of Chord Road

Over Head & Cantilever Gantry Detailed Estimation

SI. No	Description of Work	Uni	t No.	Lengt	Brea	dth Dept	h Quantity	Rate in	Amou
107	OVER MALE			m	m	m		Rs.	R
4.07	OVER HEAD GANTRY OF SPAN 30M								
4.07.1	KSRRB M2100-2.1 Earthwork in excavation for foundation of structures as per drawing an technical specifications. Including setting outconstruction of shoring and bracing, removal of stumps and other deleterious matter, dressing of side and bottom and backfilling with approved material complete as per specifications, B. Mechanical Mean (i) Depth upto 3m MORTH Specification No. 30 (Add 10% dewatering charges)	t, of es					:		
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-12)			-	-	:			
	Gantry	-	3	3.90	3	90 1.80	82.13		
				0.00	0.	Say		45.08	371
							02.00	40.05	371
4.07.2	KSRRB M2100-13. Plain Cement Concrete M18 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500, 1700 & 2100	e di				13.			
	(P.No.222, J.No.27.24 of PW,P&IWTD S.R 2011-12)	38						+	
	Gantry		3	3.90	3.9	0.10	4.56	200	
						Say	5.00	3724.92	1862
	KSRRB M2100-14 Reinforced cement concrete M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No.1500,1700 & 2100			::					
	(P.No.222, I.No.27.25 of PW, P&IWTD SR 2011-12)			-		-		-	
	Column footing		2	3.70	3.70	0.60	16.43	-	
						Say	16.50	4401.00	72616.
1 8	KSRRB 2200-5.9. Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite netal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5 in height	Cum							
(P.No.227, I.No.28.7.9 of PW, P& IWTD SR 2011-12)							-	
(Column upto GL		2	2.50	2.50	1.10	13.75		
7 5 1	SPDD M9900 a c. l.:	1400				Say	14.00	1931.28	69037.9
p p	SSRRB M2200 - 6. Supplying, fitting and placing TMT ar reinforcement in sub - structure complete as er drawing and technical specifications complete as er specifications. MORTH Specification No. 1600 & 200	MT							
	P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12)						100000		
	antry								
	at Reinforcement	-			Unit	Wt/Rmt			
	ain bar 25 nos 12mm dia istribution bar 25 nos 12mm dia	3 3	25	4.40		0.89	293.70 293.70		
1.1.7									

Sl. No.	Description of Work	Unit	No.		-	Depth	Quantity	Charles and the Control of the Control	Amount in
				m	m	m		Rs.	Rs.
	Main bar 16 nos 16mm dia	1 . 3	16	4.50	-	1.58	341.28		
	Stirrups 8mm dia bar 200mm c/c	3	27	7.40		0.394	236.16		
	Horizontal	3	. 9			0.394	78.72		
	Diagonal · · · ·	3	9				71.27		
			121			Sub Total			
	Add 5% for Wastage		t				65.74		
						Total	1380.58		
					(ty in MT	1.38		
		1				Say	1.50	68274.71	102412.06
	Supplying, fabricating, erecting, and fixing in position inserts and embedments, Truss, clamps, brackets insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straighting, cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes, devices and plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing peices etc., complete with all lead and lifts as directed by the	5							
200	Engineer-in-charge.								
	(Data Rate)			200		-			
-	Gantry		-		Ilair	Wt/Rmt			
	Structural steel on pedestal M S Base plate 20mm thick				· Onit	WURINE			
-	3x2.5mx2.5mx0.02mx7850kg/cum = 2943.75 kgs						2943.75		
	Anchor bolt 25mm dia 16 nos 3.42 kg/No		3	16.00		3.42	164.16		Sile all 1
	Stiffner plate 12mm thick 4 nos per each pedestal		Marca I						
	Vertical Plate .								
	3x4X2.3mx0.4mx0.012mx7850kg/cum = 1039.97 kgs						1039.97		
	Stiffners		_						
	3x16X0.1mx0.3mx0.012mx7850kg/cum = 135.65 kgs	-					135.65		
	Vertical structural sections	2	- 1	9.00		10.10	1901 70	-	
-	ISA 100x100x8mm @ 12.1kg/m Horizontals	3	4	8.69		12.10	1261.79	\rightarrow	
-	ISA 65x65x6mm @5.8kg/m	3	-16	· 2.00		5.80	556.80	-	
	Diagonal sections			2.00		0.00			
	SA 75x75x6mm @ 6.8kg/m	3	20	2.65		6.80	1081.20		
	Horizontal structural sections								
	SA 75x75x6mm @ 6.8kg/m	1	2	34.00		6.80	462.40		
	SMC 125x65x65mm @13.1kg/m	1	2	34.00		13.10	890.80		
	Vertical								
	SA 65x65x6mm @5.8kg/m	2	17	1.00		5.80	197.20		
	forizontal	-	17	0.00		7.00	204.40	-	
	SA 65x65x6mm @5.8kg/m	2	17	2.00		5.80	394.40	-	
	Diagonal sections	2	34	2.24		6.80	1035.78	-	
	Front & Back Botom & Top	2	34	2.24		6.80	1035.78	-	
The same of the last	Covering of truss		04	2.24				+	
	As Plate 5mm thick @ 39.2 kg/Sqm				Tille .			-	
	op	1	34	2.00		39.20	2665.60		
	susset Plate				· . ,				
	-type Vertical Joint								
	x20X0.3mx0.4mx0.008mx7850kg/cum = 452.16 kgs						452.16		
	-type Top Horizontal Joint				-		10.00		
12:	x7X0.15mx0.15mx0.008mx7850 kg/cum = 19.78 kgs	Mary San				**	19.78		

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SI. No	o. Description of Work	Unit	No.				Quantity		Amount
		-		m	m	m	1	Rs.	Rs.
	C-type 2x3X0.30mx0.30mx0.008mx7850 kg/cum = 33.91 kgs		-	-	-	-	33.91		
	Sides .	-			-		33.91		
	2x17X0.30mx0.30mx0.008mx7850kg/cum = 192.17 kgs	-					197.17		
	ZX11AO.OUIIAO.OUIIAO.OUOIIA7OOUAG/CUIII - 132.11 Ago	-				Total	14568.29		
					0	ty in MT	14.57		
				-12	1	Say	15.00	61000.00	915000.0
4.07.7	KSRRBM800-5.2. Providing and Erecting overhead signs with a corrosion resistant 2mm thick aluminium alloy sheet reflectorised with high intensity retro- reflective sheeting of encapsulated lense type with								
	vertical & lateral clearance given in clause 800.2.2 and 800.2.3 and installed as per cluse 800.2.7 over a designed support system of aluminium alloy or galvanised steel trestles and trusses of sections and type as per structural design requirements and approved plans complete as per specifications. B.Aluminium Alloy Plate for Over Head Sign MORTH Specification No. 802								
	(P.No.192, I.No.24.6 of PW,P&IWTD SR 2011-12)								
	Covering of truss								
	Тор	7.0	2	34.00	-	1.00	68.00		
	1 20 12 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15						68.00	5648.4	384091.2
4.07.8	priming coat over new steel or other metal								
	surface including preparing the surface after throughly cleaning oil, grease, dirt and othe foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.								er at ex
	(P.No.127, I.No.15.73 of PW,P&IWTD SR 2011-12)		19.5						1.1
	Gantry		12	2.00		8.70	208.80		
	Top Truss		2	30.00		1.00	60.00		
	0		2	30,00		2.00	120.00		
-	Covering Truss			00.00	·	0.00			
	Ms Plate 5mm thick @ 39.2 kg/Sqm	-	1	30.00		2.00	60,00		
		-	-	-		Carr	448.80	00.70	10000 04
	KSRB 15.18.2: Providing and applying enamel metal paint two coats (Excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materails, labour, complete as per specifications.	Sqmi				Say	449.00	23.76	10668.24
	(P.No.127, I.No. 15.74 of PW,P&IWTD SR 2011-12)								
	Quantity same as Primer Coat			-			68.00	76.68	5214.24
	KSRB 2.4: Refilling available excavated earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting earth deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications.	Cum							
	(P.No.6, I.No.2.1 1 of PW.P&IWTD SR 2011-12)							-	
	(x.110.0, 1.110.2.11 011 W.1 011 11 011 2011-12)			-			61.00	58.32	3557.52
I E	KSRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end oader, dumping, turning for return trip, excluding time for haulage and return trip complete as per	Cum						00.93	
	specifications. MORTH Chapter 1 conveying up to 20km by mechanical means.	-				-		-	
10	curveying up to Zilkm by mechanical means		1			The state of the s	Carlotte and and the said		-115-1007-10590

SI. No	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount Rs.
		+		1 ***		***		The state of the s	1587593.
4.08	CANTILEVER GANTRY			1000					
4.08.1	KSRRB M2100-2.1 Earthwork in excavation for foundation of structures as per drawing and technical specifications. Including setting out construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of side and bottom and backfilling with approved material complete as per specifications, B. Mechanical Mean. (i) Depth upto 3m MORTH Specification No. 304 (Add 10% dewatering charges)	d f s l							
	(P.No. 220, I.No. 27.4 of PW, P & IWTD SR 2011-12)		a de de		·				
	Cantilever Gantry		1	2.15	2.15	1.50	6.93		
						Say	7.00	45.08	315.592
4.08.2	KSRRB M2100-13. Plain Cement Concrete M18 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @ 0.56cum in Open foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500, 1700 & 2100								
	(P.No.222, I.No.27.24 of PW,P&IWTD S.R 2011-12)								
	Cantilever Gantry		1	2.15	2.15	0.10	0.46		
						Say	0.50	3724.92	1862.4
4,08.3	KSRRB M2100-14 Reinforced cement concrete M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, in Open foundation complete as per Drawing and Technical Specifications. MORTH Specification No.1500,1700 & 2100	11 ¹⁵					:		1.88
	(P.No.222, I.No.27.25 of PW, P&IWTD SR 2011-12)								
	Column footing		1	1.95	1.95	0.40	1.52		
						. Say	2.00	4401.00	8802
1.08.4	KSRRB 2200-5.9. Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5 m height						*		
	(P.No.227, I.No.28.7.9 of PW, P& IWTD SR 2011-12)								
	Column upto GL		1	0.60	0.60	1.00	0.36	1001	0407.04
- 100	KSRRB M2200 - 6. Supplying, fitting and placing TMT	MT				Say	0.50	4931.28	2465.64
.08.5	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200								
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MÖRTH Specification No. 1600 & 2200						·		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement		-:	·: .					
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar		: 10	2.40			24.00		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m		•	2.40			14.88		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar		10				14.88 24.00		
-	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar 10x2.4 = 24.00x 0.62kg/m		•	2.40			14.88		
-	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar 10x2.4 = 24.00x 0.62kg/m Column pedestal		10	2.40			14.88 24.00 14.88		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar 10x2.4 = 24.00x 0.62kg/m Column pedestal Main bar 4 nos 16mmdia bar		•	2.40			14.88 24.00		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar 10x2.4 = 24.00x 0.62kg/m Column pedestal		10	2.40			14.88 24.00 14.88		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar 10x2.4 = 24.00x 0.62kg/m Column pedestal Main bar 4 nos 16mmdia bar 4x2.6 = 10.40 x 1.57kg/m		10	2.40			14.88 24.00 14.88 10.40 16.33		
	bar reinforcement in sub - structure complete as per drawing and technical specifications complete as per specifications. MORTH Specification No. 1600 & 2200 (P.No.229, I.No.28.8 of PW, P&IWTD SR 2011-12) Mat Reinforcement Main bar 10 nos 10mm dia bar 10x2.4 = 24.00 x 0.62kg/m Distribution bar 10 nos 10mm dia bar 10x2.4 = 24.00x 0.62kg/m Column pedestal Main bar 4 nos 16mmdia bar 4x2.6 = 10.40 x 1.57kg/m Main bar 4 nos 12mmdia bar		10	2.40			14.88 24.00 14.88 10.40 16.33 10.40		

42	
1700	
10.25	
538	

Sl. No	Description of Work	Ur	it	No.	Length	Breadt	h Dept	h Quant	ity Rate	in Amour
		-			m	m	m		Rs	Rs.
				٠.			Qty in M	IT 0	.07	
			1				S		.50 6827	4.71 34137
4.08.6	inserts and embedments, Truss, clamps, bracket insert plates and all miscellaneous steel works a shown in drawing and as directed by the Engineer a all depths, using MS angles, channels, steel beam rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 206 grade A, medium class GI pipes etc., includin straighting, cutting, fabricating, welding, bending t slope fixing to position, welding to insert plat embeded in concrete and inclusive of 2coats of ename paint over one coat of metal primer. The rate quoted it to include the cost of all materials, labour, tools tackets, cranes, devices and plants, wastage etc., a per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding electrodes, and connections required for the work	s, sat ss, ss, ss, ss, ss, ss, ss, ss, ss, ss	T				3.		:	4.71 34137
	Rate to include shims and packing peices etc. complete with all lead and lifts as directed by the Engineer-in-charge.									
	(Data rate) M S Base plate 16mm thick	-	-	+						
	0.6mx0.6mx0.016mx7850kg/cum = 45.22 kgs	-	+	-				100		
-	Anchor Bolt 25mm bolt 750mm long 8nos	-	+	8	0.75		-	45.2		
	Timenot Bote 20thin box 790thin long glios	-	-	0	0.75			20.5		
	Stiffner plate 12mm thick 4 nos	0.50	1					20.0	-	-
	4x0.3mx0.15mx0.012mx7850kg/cum					-		16.9	6	_
	NB 300 @ 45Kg/m	100		1	6.00		·	6.0		-
								270.0		+
	Base Plate 12mm above NB 300							2.0.0	-	-
	2x0.85mx0.85mx0.012mx7850kg/cum = 45.22 kgs	100	1					136.1	2	0.00
	Stiffner plate					E 0 4 2 1	031118	100.1		+
	4x0.3mx0.15mx0.012mx7850kg/cum	- 787						16.90	6	1
	NB 80 @ 49.5Kg/m	THE ST								-
	Horizontal			4	4.30			17.20		
Wind!	Top & Bottom			10	0.75			7.50		-
	Diagonal .			8	2.05			16.40	-	
								41.10	-	—
								2034.45		
1	NB 50@5.1Kg/m								-	
	Vertical			10	1.80			· 18.00	-	-
				-	1.00			91.80	-	-
1	NB 100 @ 12.1Kg/m								-	
	Cantilever Supporting Bar			2	1.00			2.00		
								24.20		-
0	Covering of Truss									
	AS Plate 5mm thick @ 39.2kg/sqm			2	4.30		2.00	17.20		
								674.24	Company of the Compan	
							Total	3330,46	- International Property Control	
						Qty	in MT	3.33		
		The state of					Say		61000.00	213500.00
th m sa co	SRB 15.18.1: Applying red lead ready mix riming coat over new steel or other metal arface including preparing the surface after troughly cleaning oil, grease, dirt and othe foreign atter, and scoured with wire brushes, fine steel wool, and papers including cost of materials, labour, mplete as per specifications.	Sqm ·						0100	01000:00	
	No.127, I.No.15.73 of PW,P&IWTD SR 2011-12)		1/2							
	antilever Gantry			1						
	B 300			-	0.94					300 ST 11 ST

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SI. No	Description of Work	Unit	No.	Length	Breadth	Depth	Quantity	Ratein	Amount in
			19.00	m	· m ·	m		Rs.	Rs.
	Horizontal sides		. 2	4.30		1.80	15.48		
	Top & Bottom		. 2	4.30		0.75	6.45		
	Covering for Truss		N						
	MS Plate 5mm thick		:2	4.30	:	2.00	17:20		
	•			024		-	44.79		
						Say	45.00	23.76	1069.2
4.08.8	KSRB 15.18.2: Providing and applying enamel metal paint two coats (Excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materails, labour, complete as per specifications. (P.No.127, I.No.15.74 of PW,P&IWTD SR 2011-12)		•		-		45.00	76.68	3450.6
			-			-	40.00	70.00	0400.0
4.08.9	KSRB 2.4: Refilling available excavated earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting earth deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications.	Cum							
	(P.No.6, I.No.2.11 of PW,P&IWTD SR 2011-12)								
Sulf	, , , , , , , , , , , , , , , , , , , ,	. 100		-			4.50	58.32	262.44
.08.10	KSRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH Chapter 1	Cum			x 2		4.30	98.32	202.44
	Conveying up to 20km by Mechanical means.								
	(P.No.141&147 of PW,P&IWTD S.R 2011-12)			·			2.50	123.34	308.35
								Total	266173.64



Project: Proposed Improvements Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Flyover at Basaveshwara Nagar 1st Main Road Junction

Electrical Estimate

Sl. No	Description of work	Unit	Quantity	Rate in Rs.	Amount in Rs
9.01	Supplying and fixing of Philips make Velocity street light, fixtures suitable for 250 Watt SON · T PIA sodium vapour lamp SGP 338 / 250 SON · T sed green, or equivalent with following parameters Housing made out of LM6 high pressure die cast recyclable aluminium alloy of sturdiness and excellent corrosion resistance the finish should be powdwe coated sea green housing for improved aesthetics and better environmental protection. The lamp compartment should consist of electrochemicslly anodized, high purity POT reflector with a soecifically designed ribbed profile for better uniformity and high spacing to mounting ratio, All electrical accessories such as energy efficient low loss open construction copper ballast with tw.130 deg., semi parallel ignitor and siemens EPCOS make power pafactor improvement capacitor should be provided prewored upto terminal block. All accessories are to be mounted to aremovable gear plate for ease of maintenance. All electrical connections of the control gear module with the rest of the luminarie are click fix, foolproof and require use of no., tools.				
	Control gear compartment opens from top. Heat resistant toughned curved glass bowl for the lamp compartment, which is sealed replacement, is by opening the top compartment to ensure ingress protection of IP66 for the lamp compartment. Flexible optics to achieve optimum light distribution to suit different road and installetion parameter. Specially designed dual pole mounting arrangement bottom as well as lateral pole mounting suitable for mounting on pole dial., 42mm-70mm luminarie shall fully confirmed to safety norms according to IEC598/ENEC60598 make philips or GE.		• 32	10500.00	336000,00
9.02	SON-T PLUS PIA 250W HPSV TUBULAR LAMP Supplying and fixing 250W high pressure sodium vapour lamp of tubular design with lead free environment- friendly glass, without built in ignitor and having a luminous efficacy not less than 125 lumen/watt with a restricting time-30seconds suitable for fixing in the velocity sodium vapour street light fitting for operation on single phase 230V 50Hz, AC power supply and confirming to IS9974 PART I and II (latest).	Nos	32	9500.00	304000.00
9.03	Fixing metal halide Street light fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires complete (SR 2010-11) Page 26, Item 5.	Nos	64	130.00	8320.00
	Supplying and fixing telescopic M.S.bracket fabricated by using 0.5m length 4" dia telescopic M.S.pipe with 2" dia 1.5m long M.S.bracket all are welded with suitable angle using 6mm thick M.S.sheet, grip bolt & nuts as required suitable for 9 to 12 mtrs M.S.tubular pole or octogonal pole with necessary two coats of approved painting, with all other accessories etc complete				
	a) Single bracket 1 X 1.5 Mtr Length (SR 2010-11) Page 26, Item 4(b).	Nos	82	1005.00	32160.00
	c) Double bracket 2 X 1.5 Mtr.Length (SR 2010-11) Page 26, Item 4(c).	Nos	16	1200.00	19200.00
	Fabricating supplying and erecting sawged tubular pole of height 9Mtr having three sections and providing two coats of red oxide paint and finished with two coats of enamaled paint of approved quality and color and M.S.Base plate of suitable size welded at the bottom of the pole(as per IS)and 40mm dia GI/flexible PVC pipe of 1Mtr. length fitted to the heavy guage polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole /200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB/DP switch. The pole shall be erected n cement concrete work(1:2:4)including excavation and refilling of planting depth of the cole to the to the ground level and the coping CC shall be upto 0.6M above ground level as per 2713-7			1	
(Nos	48	8050.00	86 6400.00

lot 3

8	3	2.	
а	13	a	
М	33	6	

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	Amount in Re
9.06	Supply, installation, testing & commissioning of outdoor type feeder piller boar with TVM meter as per power distribution schematic diagram enclosed The ratisfiall include all necessary foundation & civil works (MKT Rate)		1	80000.00	80000.0
9.07	Supplying, providing, testing and commissioning of 1.1 KV class single con 3/20mm stranded copper cable PVC insulated and sheathed for street lights from the control points located on pole supports at 2.0m above ground level complet and as directed by the Engineer in charge (SR 2010-11) Page 9, Item 20((c)	n e	1000	25.00	25000.00
9.08	Supplying, providing, testing and commissioning of 50mm GI pipe at pol supports to enclose the UG cable etc., complete and as directed by the Engineer in charge including digging erection etc. (SR 2010-11) Page 69, Item 15(b).		150	260.00	39000.00
	ELECTRIFICATION - BOX TUNNEL				
9.09	Supplying high pressure 150 Watts metal halide street light luminare suitable for use with high pressure metalhallide lamp with integrated control gear. The fitting shall be on non corrosive high pressure die cast alluminum housing with low copper content gray powder coated finish including wiring, suitable to operate on 230/250V 50Hz AC supply including heavy duty copper biased, igniter condenser and 150 watts metal halide lamp. (SR 2010-11) page 19, Item 13. (II). (a	n n	12	5450.00	65400.00
	Fixing metal halide Street light fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires complete (SR 2010 11) Page 26, Item 5.		12	130.00	1560.00
	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete 63 Amps	Nos	4	219.00	876.00
I	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements or UG cable 50mm.		120	260.00	31200.00
l f	Fabricating supplying and mounting MS box made outSWG suitable for loor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof ocking arrangements, with suitable size clamps with necessary cable b entry hipe with 16SWG		48	600.00	28800.00
A	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron. and M.S.flatwith bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint 40X40X6mm		30	210.00	6300.00
	upplying of L.T. Cables ,				
s	supplying of L.T.UG cable having aluminium conductor PVC insulated heathed, galvanised, steel wire/steel tape armoured cable with PVC outer heathing 1.1 KV class (conforming to IS 1554)				
	.5C x 50 Sqmm XLPE cable	Mtrs.	80	250.00	20000.00
	5C x 25 Sqmm XLPE cable	Mtrs.	60	215.00	12900.00
	SR 2010-11) page 67, Item 10(I)(e)				
(8	C x 16 Sqmm XLPE cable GR 2010-11) page 67, Item 10(I)(d) aying of L.T. Underground cables	Mtrs.	800	150.00	120000.00
0.16 La	abour charges for laying of 1.1 KV class UG cable when supplied epartmentally agency in existing trench GI pipe / stoneware pipe / on wall / on ble as required				
	5C x 50 Sqmm XLPE cable	Mtrs.	80	8.00	640.00
	R 2010-11) page 68, Item 11.(I).(b) 5C x 25 Sqm m XLPE cable	Mtrs.	60	8.00	480.00
	R 2010-11) page 68, Item 11.(I).(b)	Mus.	- 00	8.00	400.00
-	C x 16 Sqmm XLPE cable	Mtrs.	800	5.00	4000.00
	R 2010-11) page 67, Item 10(I)(a)				
THE RESERVE AND ADDRESS OF THE PARTY OF THE	nd Termination of above cables with glands crimping type copper ckets.			4	
7.1 3.5	5C x 50 Sqmm XLPE cable (SR 2010-11)	Nos	4 . 3	340.00	1360.00

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	Amount in Rs
	Page 69 & 72 item 17(d) & 26()()				
9.17.2	3.5C x 25 Sqmm XLPE cable (SR 2010-11)	Nos	.4	215.00	860.00
	Page 69 & 72 item 17(d) & 26()()				
9.17.3	4C x 16 Sqmm XLPE cable (SR 2010-11)	Nos	96	150.00	14400.00
	Page 69 & 72 item 17(d) & 26()()				
9.18	Supplying and fixing L.T.cast iro pot heads suitable for 1.1KV class UG Cable filled with necessary bitumen/insulating compound with terminals, clamps, bolts, nut and washers etc.,				
a)	35 sqmm (SR 2010-11) page 69, Item 16(e)	Nos	1	313.00	313.00
b)	25 sqmm (SR 2010-11) page 69, Item 16(e)	Nos	1	286.00	286.00
9.19	Digging of trench of 0.6 mtr deepx0.50 mtr wide refilling the ternch to the required ground level and consolidating etc., complete(as per civil SR KSRB 1-2,P-7)				
	a. In soil(hard)	Rmtr	600	50,00	30000.00
	(SR 2010-11) Page 68, Item 12(b)				
	EARTHING				
9.20	Supplying fixing, wiring earth electrode for grounding conduits, I.C.cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit The pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12.2mm dia. (SR 2010 11) page-67, item-7			1500.00	6000.00
9.21	Supply & laying following GI Flat/wires as Earthing conductors from equipment to earth stations.				
9.22	25 x 6mm G.I.Flat (SR 2010-11)Page 67.9 (b)	Mtrs.	250	140.00	35000.00
9.23	8 SWG- G.I Wire (SR 2010-11) Page-74, item 30:I.(c)	Mtrs.	800	20.00	16000.00
	Miscellaneous				
					Calle No. 121
9.24	Providing and laying reinforced cement concrete pipe NP2 150mm dia for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300	Mtrs.	200	389.00	77800.00
,	(Pg No. 225, I.No.34.7.1 of PW,P&IWTD SR 2011-12)				
9.25	Video Surveillance Systems consisting of outdoor fixed cameras, video encoders, video management software, recording servers, etc for outdoor surveillance of the construction site locally as well as from a remote location	LS	- -	-	500000.00
		4. 4.1		1	2684255.00
9.26	Miscellaneous & Rounding off				5745.00
	Introcenaneous & Iwanang on		otal· Amou		269 0000.00



Rate Analysis and Data Rate

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Flyover at Manjunath Nagar Main Road Junction

oT	WA	Basic Rate	Item	นร	JinU	Description of Work	IS
		(.910	alore Cir	Bung a	TWI P&IWI	n Schedule of Rates for the year 2011- 201	o pəsvg)
	****					talysis for Flyover Works	Rate Ai
UOII	oune p	POAT HIPTO TPS	, ,				

3724.92	26.372	00.6448	₽2.72	222	un	SRRB M2100-13 Plain cement concrete in open Cundation complete	IOJ I
£1208.63	72.058	98.87801	P.SS.15	3 941	un	Suconimusid gaives and laying bituminous of the suconimusid gains and laying bit of the suconimus of the suc	w co
\$1.8588	10.999	81.0028	2.61.15		un(SRRB M500-17: Providing and laying dense graded of turninous macadam with 100-120 TPH batch type.	a
94.91	22.1	₽2.81	7.12	271	wbg	SRRR M500-7: Providing and applying tack coat on the prepared black topped surfaces at 5 kg per 10 .	S
19.0649	67.08£	28.6009	2.11.12	371		SCRRB 500-11: Providing and laying bituminous nacadam on prepared surface with crushed coarse	e
36.61	84.1	09.81	8.12	172		KSRRB M500-8 Providing and applying tack coat on granular surface treated with primer at 7.5 kg per 10 sqm	8
40.5	10.8	83.78	9.12	171		KSRRB M500.6: Providing and applying primer coat with bitumen emulsion on prepared surface	
3.0901	99.87	00.286	81.02	991		compacting graded stones aggregate to wet mix	
1050.8	148.77	00.876	1.9.02	†9 1	1	KSRRB M400-7: Construction of granular sub-base by providing Coarse graded material, (Grading-1 Material)	
PLEATI	12.96	162.00	29.61	991		KSRRB M300-55: Construction of sub-grade and earthen shoulders with approved material / Gravel KSRBB MA00 7. G	
123.5	₽1.6	114.20			-	:	6
	100000	62.20	119			Add loading & unloading item No.17.1 KSRRB M100-1	
		00.23	023	2.00x1.30x		Average weight of earth For 20 kms	
			2.00	Mrm Km	Rs. 2.	Basic rate for haulage of materials as per item No.17.4 KSRRB :M 100.4.1	
			08.1	ge weight		Debris	
				7 <u>₽1</u> .	mno	Conveying the excavated earth, and disposal of	2
04	12.3	51.59	11.61	120	сиш	KSRRB M300-11. Excavation for road way in soil by earth to site of embankment	ı
.eA ni	%8	.zA ni	.oN .	Page No			
Total Ra	WA	Basic Rate	Item	us	JinU		No.

						otacilizano) est	eueM
38.6106 9	112.14	2 17.10689	62.6	241 2	Th	RRB M2300 - 14. Supplying, fitting and placing II bar reinforcement in super - structure complete	MT
82.2823	82.168	00.1684	1.4.6		ung	restressed Cement Concrete in Super-structure as drawing and technical specification M-20 Grade	ted d /
00 0002		00 1087	170	000		'ucture complete a) PCC Grade M15 - i) Upto 5m ight.	әч
97.8868	97.162	3647.00	1.7.85	226 2	ung	O due ni 92200 5 - 1: Plain Cement Concrete in sub	3 K
95.0263	99.884	2482.00	1.81.6	7 982	wng	RRB M2300.7.1. Furnishing and Placing Confreed in super- inforced / Prestressed cement concrete in super- ructure as per drawing and Technical suction M-35 grade	SET BE
49.68	₽9°90₽	00.8808	81.7.85	2 822	muS	urnishing and Placing Reinforced cement concret in Construction by a structure as per drawing and Technical ecification M-35 grade Height Upto 5m	ns
45.08	\$.54	87.14 ·					
		08.8				dd 10% Dewatering Charges	A
		36.78	₽.72	022		SRRB M2100-2.1 Earthwork in excavation for oundation of structures B.Mechanical Means (i) epth upto 3m	oj
04.65	04.4	00.33	5.33	82	mpS	ni gnitniog bas saistb to sdele saote gnixibe. (6:1).M.	SP B
29.7 <u>h</u>	3.52	00.44	5.32	88	mp2		
02.76	02.7	00.06	01.2	9	mu .	SRB 2.3: Filling available excavated earth excluding rock) in sides of foundations upto plinth in ayers not exceeding 20 cms	9)
0.3878				Data R	mbg		
1 t .				Ī	1	eseven thick interlock pavers	-
99LL	23.73	00.617	171	801	mpS	SARB 14.6-2: Providing and laying heavy duty cobble	
0.468		• (ete	Data R	mnO	Providing & Filling of Aggregates to required depth in train trench including cost of all materials 40mm was including cost of all materials.	0
0,4611			ete	Data R	mnO	Providing & Filling of Aggregates to required depth in mmOs - slairestem Ils to sees of all materials - 20mm down size	
1726.9	26.721	00.6631	\$1.72	122	. Gum	KSRRB 2100-6: Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers,	
148.2	86.01	32.781 .	01,82	622	1mH	KSRRB M2200-8: Providing weep holes in Reinforced concrete abutment	11
1206.	09.111	1395.00	1.8.48	752		Providing and laying reinforced cement concrete pipe NP3 of 300mm dia for culverts including pointing	1
1465.			ste.	Data I	mbS	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete 1.1.5:3	
7.1789	6 E.7303	28.71289	8.82	622		KSRRB M2300-06: Supplying, fitting and placing TMT bar reinforcement in sub - structure complete as per drawing and technical specifications	
	omine s					aub - structure as per drawing and Technical specification e) RCC Grade M-20 - (i) Upto 5m Height.	
.eA ni .1894.	88.288	eR ni 4566.00	.oN 6.7.82	Page No.	Cum	Furnishing and Placing Reinforced cement concret in	13
Total Rat	MV	Basic Rate	Item		JinU	Description of Work	.oN
u 1 , u	1117	, u ., a	-71	do		, -1-1103	15

								7-541100000000	CUEVY
08.4815	9 (4824.80	00.01808	125	.92 7	SIS	T	RRB M1200-47: Providing steel liner 10mm ok for curbs and 6mm thick for seining	thi
00.0002	12	Z*0Z*	(%9*0009)	(ASI)		120	.sol	snoT 02 lo bi	109
00.0271	L1	2*072	*(%9*00E)	(AS) (S)		91	.eoV	Ils to teob gainfulding and of 270 fo baol all	nd
₱8.8866		8.387	00.8616	3.8	2 10	02	1m2	ORTH specifications No. 1100 & 1700	M
84,1077	8	670.4	00.1817	₽.6			Rmt	ORTH specifications No. 1100, 1600 & 1700.	INI
								SRRB 1100. Bored cast - in -situ RCC Pile with	0
23.062	29	12	00.692	14.4	z 76	ST	.eoV	SRRB M800-35 Providing and fixing of road stud 100×100 mm, die cast in aluminium .) T
1246.32	28.2	36	1124.00	4.24	ō''⊅6	1 :		SRRB M800 - 20. Tubular Steel Railing on Medium I Veight Steel Channel (ISMC Series)	M
\$632.04	₽0.6	597	00.8988						
89.2812	89.1		2021.00			-		Ocm high octagon	6
1974.64	129.9		N. Carron Company of Company	_	-	-	-	Ocm circular	
73 7000	1/33	16	2708.00	-	-			Ocm equilateral triangle	6
				24.2	. 161	1 1	Евсћ	SERRE M800-2: Retro - Reflectorised Traffic Signa:- Providing and fixing of retro - reflectorised cautionary	43 I
₹0.398	₽0.75	3 (338.00	61.42	₽61		Nos.	KSRRB M800-15: Supplying and Installation of	45
¥8.62¥	₽8.18	3 0	0.868	24.15	661	u	ap2	KSRRB M800-13: Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:	
4275.72	27.91	8 0	0.6368	9.4	12			KSRB 4-1.6: Providing and laying in position plain coment concrete of nominal mix 1:2:4 using 20mm	
3246,48	84.04	2 0	3006	6.3	97			KSRB 5.3-3: Providing and constructing granite / trap hasalt size stone masonry in basement with cement mortar 1:6,	
.£772.4-	bb*908	3 00		9.6	: 97	.	.	basalt size stone masonry in foundation with cemen mortar 1:6,	
4012.2	02.762	. 00	3715.	6.4	12.	m	no u	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm	78
7.44.7	27.01	00	134.	8.2	g	un	.	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines	98
3.062	23.12	00	597	1.62.3	87	.ol	93	stones made out of CC 1:2:4 and finished with CM 1: plastering and finishing cutting etc., complete .Siz	36
48.	68.8	06	ħħ .	24.1	161	u		surface with synthetic enamel paint	34
. 275,	01.02	00.	522	11.82	622	un		wall complete Granular Material	33
	82.64	00'	919	28.13	522	um	30	KSRRB M2200-9: Providing and laying of Filt- media with stone crushed aggregates satisfying the requirements	7.5
.aA ni	%8		aA ai	.oN	on age	I			
Total Rat	MY	ate	Basic R	Item	SR	2jū1	1		ON IS
						1			

	\top	T				eel railing complete as per drawing and technical	
\$9.2972	\$9.402	00.8332	32.4	092	M	blim maxim and fitting and fixing mild	M 2
00.0841			ete	Market R	3mt	SRRB 13-9.1: Providing and fixing to wall, ceiling is define, high density polythylene pipes 6.00 they can working pressure 160mm outside	gi
80.8121	80.06	00.9211	32.5	250	. oN	SRRB M2700-5 Drainage Spouts complete as per rawing and Technical specification to 2705 pecification Mo. 2705	q
89.862	89,71	00.122	1.28		wbs	nastic asphalt wearing coarse on top of deck slab scluding prime coat with paving grade bitumen neeting the requirements given in table 500-29,	u es
80.11	28.0	92.01	1.01.12	172	mpS	SRRB M500-10. Tack Coat: Providing and applying ack coat with bitumen emulsion using emulsion ressure distributor at the rate of 0.20 kg per sqm	rı
200.00			etes	Market I	mps	nti carbonate painting with approved colour as per pecifications	A 78
15675.12	21.1911	14514.00	6.18	742	Rmt	SCRRB M2600-9. Providing and laying of a strip seal synamic point catering of maximum horizontal	H
206841.60	180	(%8**901)			1	Guided/ fixed PTFE bearings 180MT vertical	
344736.00	*300	(%8* * 901)				Guided fixed PTFE bearings 300MT vertical	
		· ·	28.16	522	.eoM	XSRRB M2200 -12: Supplying, fitting & fixing in cosition true to line and level sliding plate bearing with PTFE surface sliding on stainless steel	1
0€299	.180	(%8*146)				Gapacity fixed PTFE bearings 180MT vertical	
110484.00	*300	(341*8%)				Capacity Capacity	
			28.19	230	.eoM	KSRRB M2200-15: Supplying, fitting and fixing in position true to line and level POT - PTFE bearings consisting of a metal piston	
159100.2	02.38711	00.318741	08.62	541	TM	KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing, stressing operations and grouting	
9.6629	₽9°99₽	. 2833.00	2.22.62	662	ung.	KSRRB M2300:10.2. Furnishing and Placing Reinforced / Prestressed cement concrete in super structure M-40 grade complete as per specifications. Case - II: Using Batching Plant,	
0.72461	\$0.68\$1	00.88671	6.28	251		KSRRB M2700-9, Providing, precasting, transportation and placing in position precast post tensioned concrete girders	
L'+8+L	27.033	00.4889	2.92.62	077	muə	KSRRB 2300 - 11.3. Furnishing and Placing Reinforced \ Prestressed cement concrete in super structure M-45 grade complete as per specifications. F.PSC Grade M45. MORTH Specification No.1500, 1600 & 1700- Height 5m to 10m	20
9.0664	89.698	4621.00	25.25	203	шnЭ	KSRRB M1100 - 11.2 Cement Concrete for Reinforced Concrete in Pile Cap D.RCC mix M35	6Þ
.eA ni	%8	.eA-ni	.oV	Раде Ио.			.oN
Total Rate	WA	Basic Rate	Item	AR	JinU	Description of Work	TS

146.441	<u> ₽</u> L	01 02.48	ī				The second secon
-		62.20				100	dd loading & unloading item No.17.1 KSRRB M100-1
		72.00		02x08.	2.00x1		ad losding & unlosding is an angle of the
					шУ		Versge weight of earth For 20 kms
			00	Z eut	ton/cur	Rs. S	asic rate for haulage of materials as per item
			08		iage wei		
							ebris etc.,
					14	mn)	onveying the excavated earth and disposal of
08.826	08.8	9 00.098	33				SCRRB M200-12.1. Dismantling of existing tructures v) Steel Work in all types of sections upto Height of 5m above plinth level excluding Cutting of Sivet - A. Including dismembering.
324.00	· 00.42	300.008	20	.81 44	Į u	m)	structures II. By Mechanical means, A. Cement
25.718	23.52	00.462	91-	81 951	ı w	- 11	KSRRB 200-22.2: Dismantling of flexible pavement: Mo. 202. No. 202. KSRRB M200-12.1. Dismantling of eviction
91.091	98.11	148.30	94.8	BI 941		.8	KSRRB 200-22.1: Dismantling of flexible pavement II. By Mechanical Means: A. Bituminous courses MORTH Specification No. 202.
08.89	01.7	07.88	99.7	268 37	ul	bS	Removing of Footpath Slab
161	14.40	00.081	72.8	T 971	·	ig Gr	KSRRB M200-12,1. Dismantling of existing atructures iii) Dismantling Stone Masonary B. Rubbi Stone Masonry in Cement Mortar. SSM
L1267	27.12	272.00	81.8	1 751	чэг	al go	KSRRB M200-12.1. Dismantling of existing atructures i) Lime/Cement Concrete. I. By Manu means, B. Cement Concrete Grade M-15 & M-20.
244.(80.81	00.322	71.81	144	зср	le	KSRRB M200-12.1. Dismantling of existi atructures i) Lime/Cement Concrete. I. By Manu means, A. Lime Concrete, Cement Concrete Grade 10 & below PCC
1208.	23.68	00.6111	₽.81	143	дзер	to E	KSRRB 200-1: Cutting of trees girth from 1800mm 2700mm including cutting of trunks, branches
.062	64.12	29.892	2.81	143			7 KSRRB 200-1: Cutting of trees girth from 600mm 900mm including cutting of trunks, branches
9+1	88.01	00.981	09.61	991		pue	6 KSRRB M300.53. Construction of embankment was approved material Gravel / Murrum with all lifts a leads, transporting to site, spreading
0099			ate	Data R		1	Froviding, casting, erection and assembling of mm thick pre-cast RCC facia panel of M35 grade
8 1 84	98.1 9 8	4517.00	08.72	223		per	Drawing and Technical Specifications. E. RCC Ca
6	01.7	77.88					64 KSRRB M2100 - 17.1. Plain / Reinforced Cen
		70.8			2000		sagramo Surve
							specifications, including setting out, Add 10% Dewatering Charges
		07.08	T./.			nical	and and structures as per drawing and tech
.eA ni	%8	.sA ni	I.72	220	mno	Tol n	63 KSRRB M2100 - I.1. Earthwork in excavation
Total Ra	WA	Basic Rate	meal	Page No.			·oN
					JiaU		Description of Work

	70%	00.40	1		1	xcluding rock) in sides of foundations upto plinth	(9)
28.85	4.32	24.00	11.2		i ur	The distriction of the districti	
						aint two coats (Excluding priming coat) over new	ps
89.97	89.3	00.17	PT.81	TSI	ut	SRB 15.18.2: Providing and applying enamel metal So	Э 6
97.83	92.1	00.22	£7.31	. 721	wb	S RB 15.18.1: Applying red lead ready mix priming S at over new steel or other metal surface	N 8
04.8493	418.40	00.0828	9.42	261	wb	S.S.RBM800-5.2. Providing and Erecting overhead Signs with a corrosion resistant 2mm thick luminium alloy sheet reflectorised with high netro-reflective	s s
4401.00	926.00	4075.00	32.72	222	wn	SRRB M2100-14 Reinforced cement concrete M20 Crith OPC cement @ 300kgs,	M 98
367718.40	320	E+(%8+590I)				Guided fixed PTFE bearings 180MT vertical	q
00.093478	009	0*(%8*100i)				Guided fixed PTFE bearings 300MT vertical	9
		:	91.82	622	vos.	KSRRB M2200 -12: Supplying, fitting & fixing in loosition true to line and level sliding plate bearing with PTFE surface sliding on stainless steel	I
09.648711	028	E*(%8*14E)				Capacity Capacity	
184140.00	009	: (%8*1 + E)				a) Guided/ fixed PTFE bearings 300MT vertical Capacity	
			61.82	082		KSRRB M2200-15: Supplying, fitting and fixing in position true to line and level POT - PTFE bearings consisting of a metal piston	
13027	99'96	1207.00	£1.2	9	mu	KSRB 2.6: Providing and filling send, in foundation upto plinth to required depth for sub-soil treatment	£8
9°096 <i>L</i>	09.034	00.0137	(A2HV)	18	Басћ	Providing and fixing project Display Board of size I.60 wertical x 1.60 mts Horizontal made of cold rolled coil 16 Gauge	28
8.182	88.02	00.192 · ·	64.42.	661	Езср	KSSRBM800 - Flagman KSSRRB M800 - 46. Positioning of a smart flagman with a yellow vest and a yellow cap and a red flag	18
0.00018			Sate	Data I	TM	Supplying, fabricating, erecting, and fixing in position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel	08
2214.0	164.00	2050.00	44.44	861 .	Езсћ	KSRRB M800-Portable barricade in construction Zone KSRRBB M800-43: Installation of a steel portable barricade	6 <i>L</i>
9.744	93.16	414.50					
		100.50				Add loading & unloading item No.17.1 KSRRB M100-1	
		314.00	20	x38.7x00.S		Average weight of earth For 20 kms	
			00.2	onnoT 00.		Basic rate for haulage of materials as per item No.17.4 KSRRB :M 100-4.1	
			38.7	tge weight		Steel	
						debris etc.,	
				LDI	1111117	TANTO THE CHILD DAILY CALL STATE OF THE STAT	C) 1
.aM ni	%8	.sH ni	.oN	Page No.	unij		0N 87

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Junction Name of the Work: Construction of Intergrated Underpass at Shivanagara 1st & 8th Main Road

(Based on Schedule of Rates for the year 2011- 2012 PW, P&IWTD Bangalore Circle.) Rate Analysis for Underpass

					u	ano	veying the excavated earth, and disposal of debris	ecc.,	Γ
123.34	₽I.6	114.20					Title disease between 941 Rilyayi	Con	b
		62.20					1.001M 88 RSR I.7.1 No. 17.1 KSRRB M100-1		
		62.00		02x08.1x0	2.0		rage weight of earth For 20 kms		- man
			2.00	PunoT	м.х	Sur	1.4.001 IV: dan	CXT	-
					not ni	a	4.71.0V, materals as per item Wo.Tl.of.	Bas	*****
			1.30	adgisw			sind	ал	
							•	onal	
	-			LPI	u	Cu	nveying the excavated earth, and disposal of debris	Co	13
08,826	08.89	00.098	86.81	146.	əut	-	SRRB M200-17.2. Dismantling of existing structures Steel Work in all types of sections upto a Height of 5m ove plinth level excluding Cutting of Rivet - including dismembering.	ap	12
324.00	24.00	00.008	02.81	P\$1.			SRRB M200-12.1. Dismantling of existing structures By Mechanical means, A. Cement concrete Grade M- & M-20.	12	II
9°.461	3.52	00.081	25.8 72.81	145		O 8	SRRB M200-12.1. Dismantling of existing structures. Dismantling Stone Masonary B. Rubble Stone asonry in Cement Mortar. SSM	M iii	
8.89	01.7	07.88	98.78	897	wb	rate and	emoving B.S. Slab of Drain and Stacking	7 1	6
WEST TO SERVICE AND A 1 TO 1 TO 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0226	836	-	0	dal2 disapath Slab	H 8	8
₱ . 872	85.02	00.882	81.81	144	увср	H 8	SRRB M200-12.1. Dismantling of existing structure Lime/Cement Concrete. I. By Manual means, H ement Concrete Grade M-15 & M-20.	1+	
	97.12	272.00	71.81	144	дзер	I se	KSRRB M200-12.1. Dismanting of existing structure) Lime/Cement Concrete. I. By Manual means, A. Lim Concrete, Cement Concrete Grade M-10 & below PCC	1	
.0062	214.88	00.8882	3.81	143	Езср	[9:v	KSRRB 200-1: Cutting of trees girth from abor 2700mm including cutting of trunks, branches		
.8021	23.68	00.6111	₽.81	E#.I	цэвЭ		KSRRB 200-1; Cutting of trees girth from 1800mm 2700mm including cutting of trunks, branches	1	
. 724	89.63	00.178	6.81	143			KSRRB 200-1: Cutting of trees girth from 900mm 1800mm including cutting of trunks, branches		
067	64.12	39.892	18.2	E#I			KSRRB 200-1: Cutting of trees girth from 600mm jooding cutting of trunks, branches		
	37.01	36.461	1.81	143	Евсћ		KSRRB 200-1: Cutting of trees girth from 300mm 600mm including cutting of trunks, branches and	ī	
.eA ni	%8	in Rs.	,oN	Page No:		1		.oN	1
Total Ra	WA	Basic Rate	Item	AR	JinU		Description of Work	TS	1

	~						
64.84	69.8	06.44	1.42	161	u	SRRB 800-1. Painting two coats after filling the Squirtsee with synthetic enamel paint	ns
04.842	04.81	00.082	08.3	82	'SC	roviding and fixing Pre cast solid cement concrete kerb No	d st
£9.8021 J	1 17:00	0 00:01001				i i i i i i i i i i i i i i i i i i i	00
69 8061	30.27	8 86.87.601	1.22.4	175 2	un	O swonimusid gaivel bas gaibivor 91-003M BARS	H S
₱1.9988 _	10.95	8200.13 6	2.61.13	2 +11	ung	SERRE M500-17: Providing and laying dense graded of the macadam with 100-120 TPH batch type	al
16.46	22.1	÷2.31	7.12	271	mpé	SCRRB M500-7: Providing and applying tack coat on the	d E
19.0649	67.08±		. 2.11.12	821	umg	KSRRB 500-11: Providing and laying bituminous on accadam on prepared surface with crushed coarse	1
86.61	84.I	03.81	8.12	271	mps	KSRRB M500-8 Providing and applying tack coat on granular surface treated with primer at 7.5 kg per 10 sqm	
40.59	10.8	83.78	9.12	177	mpS	KSRRB M500-6: Providing and applying primer coat with bitumen emulaion on prepared surface	07
1060.5	98.87	00.286	81.02	991	mnO	KSRRB M400-17: Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam	61
1020:8	₽8.77	00.879	♦1.9.02	†91	mno	KSRRH M400-7: Construction of granular sub-base by providing Coarse graded material, (Grading-1 Material)	·81
6.471	12.96	00.231	29.61	156	Cum	KSRRB M300-55: Construction of sub-grade and earthen shoulders with approved material / Gravel	LI
3,23	99'₺	02.83	1.61	. 611	ung	KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal	91
123.3	Þ1.6	114.20				The state of the s	
		62.20			1	Add loading & unloading item No.17.1 KSRRB M100-1	
		00.23	02	x08.1x00.S	1		* ***
			1	иу шу		KSRRB :M 100.4.1 Average weight of earth For 20 kms	
			2.00	ennoT 00		Basic rate for haulage of materials as per item No.17.4	
			1.30	ge weight geweight	in t	Debris	
						6,000	
	1			241	muD	Conveying the excavated earth, and disposal of debris	91
123	₽I.6	114.20					
		62.20				Add loading & unloading item No.17.1 KSRRB M100-1	
		62.00	023	2.00x1.30		Average weight of earth For 20 kms	-/41 5440
			2.00	ennoT 00. mM	Rs. 2	Basic rate for haulage of materials as per item No.17.4 KSRRB:M 100.4.1	
			1.30	ton/cum		STITE	
in Rs.	%8	in Rs,	08.1	Page No.		Debris	N

ī	pipe NP3 of 300mm dia for culverts including pointing	21113	102	1:0:40	1395.00	09.111	1506.60
		Rmt		1.9.48	1305 00	09 111	09 9091
1 1	Providing and fixing RCC Precast cover slab of S 100mm thick for drain in cement concrete 1:1.5:3	mps	Data Ra	91			1465.00
3	sub - structure as per drawing and Technical specification e) RCC Grade M-20 (i) Upto 5m, Height.		;:				
0	exceeding 20 cms Furnishing and Placing Reinforced cement concret in C	шпЭ	722	6.7.82	00.888₽	85.388	82.1864
6	KSRB 2.3: Filling available excavated earth (excluding to rock) in sides of foundations up to plinth in layers not	Cum	9	01.2	00.06	02.7	02.79
8	KSRRB M2200-8: Providing weep holes in Reinforced F	Rmt	622	01.82	1064.00	21.38	21.6411
	Dar reinforcement in sub - structure complete as per drawing and technical specifications	LTAT	677	0.02	26.71269	66.7303	17.47289
	KSRRB M2300-7.1. Furnishing and Placing Reinforced / Prestressed cement concrete in super-structure as per drawing and Technical Specification M-35 grade	mu ^O .	529	1.81.62	00.2848	438.56	95.0265
98	Furnishing and Placing Reinforced cement concret in sub - structure as per drawing and Technical specification M-35 grade Height Upto 5m	muO	822	81.7.82	. 5083.00	₽9.90Þ	5489.64
	foundation complete .			1-72		20:012	
34	KSRRB M2100-13 Plain cement concrete in open	mu O	222	P2.72	3449.00	*********************	30,84 36,4278
	Add 10% Dewatering Charges		7		08.6 ; 37.14		10 21
33	foundation of structures B.Mechanical Means (i) Depth			4.72	96.7 <i>E</i>		
-	90cm high octagon				9363.00	₽0.692	0.2898
	60ст х 45ст гестапдијат				2318.00	₽₽.38I : (4.8032
	60cm circular				2321.00	80.881	2539.0
	90cm equilateral triangle				0.8072	49.912	2924.6
32	Providing and fixing of retro - reflectorised Traffic Signs:-	Езср	161	24.2			
31	KSRRB M800 - 20. Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series)	igmt.	24.24	PS.42	0.4611	00.88 0	1240.0
30	delineators (road way indicators,	.eoN1	₽6 1	24.19	338.0	₽0.72 0	365.
56	9 KSRRB M800-35 Providing and fixing of road stud 100 x 100 mm, die cast in aluminium	.eoN x	24.41	24.41	0.692	23.12 00	.062
27	8 KSRRB M800-13: Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:			24.15	. 9868	₽8.18 00	·674
			Page No.		in Rs.	%8 .	.aM ni
	L Description of Work o.	inU		Item	Basic Ra		Total Ra

20.73	4.22	08.23				
		08.4		7		Add 10% Dewatering Charges
		00.84	8.72		un	foundation of structures. II. Ordinary rock (not requiring blasting) B. Mechanical Means Depth upto 3m.
03.13	18.8	69.74				
		₽£.₽				Add 10% Dewatering Charges
		43.35	3.72	022	un	foundation of structures B. Mechanical Means (i) Depth 3m to 6m
99.86	2.86	35.80	19.61	199	wb	KSRRB 300-45: Scarifying stone metal crust 50mm to S
££.6I	1.43	06.71	09.61	122	mb	surface dressing
08.49	08.4	00:00				two coats with waterproof cement paint
08 73	081	00.09	2.83.31	124	mbg	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
149.0	40.11	00.881	71.31	120	wbs	Course or uncoursed stone masonry with cement mortar 1:3 KSRB 15-3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6,
75.00	93.3	03.69	1.31	611	mps	4 KSRB 15.1-1: Providing flush pointing to square rubble,
7.407	52.16	00.239	72.8	7.2	mp2	KSRB . 5.14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm
T.875.7	27.916	00.6368	, 9'₺	15	mn	KSRB 4-1.6: Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm
3246.4	84.042	3006.00	6.3	97		KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masonry in basement with cement
P.8772	205.44	2568.00	9.8	55	mno	MSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,
8.6678	PP.182	3518.00	£.£	75		49 KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm
	27.01	00. p £I	8.2	g	Cum	48 KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines
8765.0			Rate	Data I	tubs	47 M.S Grating for Catch Drains
	29.78	00.617	7.41	801	mpS	46 KSRB 14.6-2: Providing and laying heavy duty cobble stones 75mm thick interlock pavers
' †68	ļ		Rate	Data	Cum	or frowiding & Filling of Aggregates to required depth in drain trench including cost of all materials 40mm Down Size
7611	<u> </u>	•	L Rate	Data	minD	Providing & Filling of Aggregates to required depth in drain trench including cost of all materials 20mm Down Size
1726	26.721	1699.00	\$1.72	122	mnO .	43 KSRRB \$100-6: Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers,
in Rs.	%8'	.eA ni	.oN	Page No.		
Total Ra	WA	Basic Rate	Item	as	JinU	SI Description of Work

	1		1			nsisting of a mixture of fine aggregates,	Icol
82.77	27.3	99.17	19.12	181	urb		KE
382.48	28.33	· 917998 .	3.38	. 097	wb	SRRB 3000: Filling Pot - holes and Patch Repairs with tuminous Concrete, 40mm KSRRB M3000-5: Removal all field material	Bi
00.2229			9116	Data Ra	.soV	1 esie 10 revos eloding M.S.M. anixit has enibivos mm00ex00	14 9.
)x20x10cms,	
205.20	15.20	00.061	34.11	₽L	.soV.	SRS 12-6.3: Providing 20mm round footrest and fixing I among mindle with 1:3:6 cement concrete block of	12 K
09.9906	09.178	00.3688	9.6.₽€	257	3 min	roviding and laying reinforced cement concrete pipe I 93 of 1200mm dia for culverts	N (4 b)
0p.118p	356.40	00.8844	82.72	223	wng	SRRB M2100-16.1: Reinforced Cement Concrete in pen Foundation complete as per Drawing and echnical Specifications. D. PCC Grade M-25.	0
27.707±	27.848	00.6364	92.72	222	wno	SRRB M2100-15.1: Reinforced Cement Concrete in open Foundation complete as per Drawing and echnical Specifications. C. RCC Grade M-20.	N 2.
93.8803	93.978	00.7074	2.22	981	mu	Isgregate ZSRRB M600-2. Cement Concrete Pavement: Construction of un- reinforced, dowel jointed, plain ement concrete pavement over a prepared sub base	71 IV
						concrete mix M5 with OPC cement @ 160Kgs, with S5mm and down size graded granite metal coarse.	5
2.7372	\$2.402	00.8332	1.22	182	Cum	Specification.	3
9,2972	\$9°\$00	2558.00	4.28	520	M	KSRRM M2700 -4. Providing fitting and fixing mild	
0.002			Rate	Market	wbs	Anti carbonate painting with approved colour as per specifications	89
0.7872		ļ	eteR	Data I	.soN	r mm082 sais to guitsto SM to guixit bus guibivord mm082	1 29
6.83	4.32	00.43	11.2	9	Cum.	KSRB 2.4: Refilling available excavated earth (excluding rock) in sides of foundations upto plinth	99
P.875.4	04.02	00.882	11.82	622	mu ^O	Back filing behind abutment, wing wall and return wall complete Granular Material	99
3.538	82.64	00.818	28.13	627	muO	KSRRB M2200-9: Providing and laying of Filter media with stone crushed aggregates satisfying the requirements	
.2199	97.314	00.7918	61.7.82	822		KSRRB 2200-5.19: Reinforced cement concrete in sub- structure of Grade - 35 For Height upto 10m complete	
*816 *	36.438	4654.00	78.72	224		KSRRB M2100-20.2: Reinforced Cement Concrete in Open Foundation complete as per Drawing	. (100.14)
356.	04.02	00.088	26 26	766		KERRR Mainnan a. Deirfement Commit Commit	79
		00.08				Add 10% Dewatering Charges	
		00.008	27.10	: :		KSRRB M2100-4.2: Earthwork in excavation for foundation of structures. III. Hard rock -(blasting prohibited) A. Mechanical Means	19
.eM ni	%8	.eM ni	.oN	Page No.	•		.oN
Total Ra	WA	Basic Rate	Item	AR	Unit	Description of Work	'IS

00.0841			etei	Market F	1mR	SRRB 13-9.1: Providing and fixing to wall, ceiling and oor, high density polythylene pipes 6.00 kgf/sq.cm orking pressure 160mm outside	U
89.882	89.71	00.122 ·	1.28	520	wbs	SRRB M2700-1. Providing and laying 12 mm thick is astic asphalt wearing course on top of deck slab scluding prime coat with paving grade bitumen	ш
80.11	70:0	07:01	1.01.12	711	mbe	SCRRB M500-10. Tack Coat: Providing and applying ack coat with bitumen emulsion using emulsion ressure distributor at the rate of 0.20 kg per sqm	33
80 11	28.0	92.01	1.01.12	172		omplete	00
82.6008	82.863	00.8147	7.28	520	. mno		
28.810 <u>6</u> 8	41.2113	17.10689	62.62	2,41	TM .	SARB M2300 - 14. Supplying, fitting and placing TMT sar reinforcement in super - structure complete	
						Placing Reinforced /Prestressed Cement Concrete Case - I: Using Batching Plant, Transit Mixer & Concrete Pump, MORTH Specification No. 1500, 1600 & 1700 - leight 5m to 10m	H
5824.44	131.44	00.8983	29.16.2		mu	paint two coats (Excluding priming coat) over new steel	1
39.97	89.3	00.17	15.74	127	mpS		
23.70	9 <i>L</i> .1	22.00	£7.81	121	mpg	KSRB 15-18-1: Applying red lead ready mix priming coat	
2648.40	04.814	00.0823	9.42	261	ubg	KSRRBM800-5.2. Providing and Erecting overhead signs with a corrosion resistant 2mm thick aluminium alloy sheet reflectorised with high intensity retro-reflective	
4401.0	00.928	00,3704	32.72	222	muD	KSRRB M2100-14 Reinforced cement concrete M20 with OPC cement @ 300kgs,	
0.18812			Sate	Data F	mpg	M.S Grating for Ramp drain	10
8.182	88.02	00.192	64.42	661	Евср	KSSRBM800 - Flagman KSSRRB M800 - 46. Positioning of a smart flagman with a yellow vest and a yellow cap	
3,17,5	23.72	00.44.00	84,42	661	Езср	KSRRB M800-45: Drum delinator in construction zone Provision of metal drum / empty bitumen drum delinator	28
9.096 <i>L</i>	09.034	00.01 <i>37</i>	(H2HV)	. 18		Providing and fixing project Display Board of size 1.80 vertical x 1.60 mts Horizontal made of cold rolled coil 16	18
0.00018		•	Sate	Data I	TM	Supplying, fabricating, erecting, and fixing in position, insert sand embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel	08
0.4122	164.00	2020.00	\$4,44	861		KSRRB M800-Portable barricade in construction Zone barricade	64
in Rs.	%8	in Rs.	.oN	Page No.			.oN
Total Rat	WA	Basic Rate	Item	as	JinU	Description of Work	TS

Project: Proposed Improvements to Corridor along Selected Stretch of Chord Road

Name of the Work: Construction of Flyover at Basaveshwara Nagar 1st Main Road Junction

Dus	sed on Schedule of Rates for the year 2011- 2012PW, F						
SI.	Description of Work	Unit	SR	Item	Basic Rate	AW	Total Rate
No.			Page No.	No.	in Rs.	8%	in Rs.
1	KSRRB M300-11. Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment		150	19.11	65.15	5.21	70.36
2	Conveying the excavated earth, and disposal of debris etc.,	.Cum	147				
	Debris		ige weight ton/cum	1.30			
	Basic rate for haulage of materials as per item No.17.4 KSRRB:M 100-4.1		.00 Tonne Km	2.00			
	Average weight of earth For 20 kms		2.00x1.30x	20	52.00		
	Add loading & unloading item No.17.1 KSRRB M100-1				62.20	:	
				4	114.20	9.14	123.34
	KSRRB M300-55: Construction of sub-grade and earthen shoulders with approved material / Gravel(Grading-1	Cum	156	19.62	162.00	12.96	174.96
4	KSRRB M400-7: Construction of granular sub-base by providing Coarse graded material,	Cum	164	20.6.1	973.00	77.84	1050.84
	KSRRB M400-17: Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam	Cum	166	20.18	982.00	78.56	1060.56
	KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface	Sqm	171	21.6	37.58	3.01	40.59
8	KSRRB M500-8 Providing and applying tack coat on granular surface treated with primer at 7.5 kg per 10 sqm	Sqm	172 .·	21.8	18.50	1.48	19.98
I	KSRRB 500-11: Providing and laying bituminous nacadam on prepared surface with crushed coarse aggregates	Cum	172	21.11.2	6009.82	480.79	6490.61
	KSRRB M500-7: Providing and applying tack coat on the prepared black topped surfaces at 5 kg per 10 sqm,	Sqm	172	21.7	15.24	1.22	16.46
b	SRRB M500-17: Providing and laying dense graded ituminous macadam with 100-120 TPH batch type IMP	Cum	174	21.19.2	8200.13	656.01	8856.14
C	SRRB M500-19 Providing and laying bituminous oncrete 40mm thick with 40-60HMP batch type hot mix lant	Cum	175	21.22.4	10378.36	830.27	11208.63
	SRRB M2100-13 Plain cement concrete in open	Cum	. 222	27.24	3449.00	275.92	3724.92



Sl.	Description of Work	Unit	SR	Item	Basic Rate	e AW	Total Rat
No.			Page No.	No.	in Rs.	8%	in Rs.
13	Furnishing and Placing Reinforced cement concret is sub - structure as per drawing and Technical specification e) RCC Grade M-20 - (i) Upto 5r Height.	al	.227	28.7.9	4566.00	365.28	4931.2
14	KSRRB M2300-06: Supplying, fitting and placing TM' bar reinforcement in sub - structure complete as pedrawing and technical specifications		229	28.8	63217.32	5057.39	68274.71
15	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3	n Sqm	Data	Rate			1465.00
16	Providing and laying reinforced cement concrete pipe NP3 of 300mm dia for culverts including pointing ends	e Rmt	257	34.6.1	1395.00	111.60	1506.60
	KSRRB M2200-8: Providing weep holes in Reinforced concrete abutment	Rmt	229	28.10	. 137.25	10.98	148.23
	KSRRB 2100-6: Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers,		221 .	27.14	1599.00	127.92	1726.92
	Providing & Filling of Aggregates to required depth in drain trench including cost of all materials - 20mm down size		Data F	Rate			1194.00
20	Providing & Filling of Aggregates to required depth in drain trench including cost of all materials - 40mm down		Data F	Rate			894.00
21	KSRB-14.6-2: Providing and laying heavy duty cobble stones 75mm thick interlock pavers	Sqm	108	14.7	719.00	57.52	776.52
22 1	M.S Grating for Catch Drains	Sqm	Data R	ate			10940.00
r	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms		. 6	2.10	90.00	7.20	97.20
	Removing B.S. Slab of Drain and Stacking	Sqm	. 28	5.32	44.00	3.52	47.52
25 F	Refixing stone slabs of drains and pointing in C.M.(1:3)	Sqm	28	5.33	55.00	4.40	59.40
fo	SRRB M2100-2.1 Earthwork in excavation for bundation of structures B.Mechanical Means (i) Depth apto 3m		220	27.4	37.95		
A	dd 10% Dewatering Charges				3.80		
					41.75	3.34	45.08
SI	urnishing and Placing Reinforced cement concret in ub - structure as per drawing and Technical pecification M-35 grade Height Upto 5m	Cum	228	28.7.18	5083.00	406.64	5489.64
P	SRRB M2300-7.1. Furnishing and Placing Reinforced / restressed cement concrete in super-structure as per rawing and Technical Specification M-35 grade	Cum	236	29.13.1	5482.00	438.56	5920.56
st	SRB M 2200 5 - 1: Plain Cement Concrete in subructure complete a) PCC Grade M15 - i) Upto 5m eight.	Cum	226	28.7.1	3647.00	291.76	3938.76
Pr	SRB M2300 2.2: Furnishing and Placing Reinforced / restressed Cement Concrete in Super-structure as per awing and technical specification M-20 Grade	Cum		29.4.1	4891.00	391.28	5282.28
	SRRB M2300 - 14. Supplying, fitting and placing TMT reinforcement in super - structure complete	MT	241 .	29.29	63901.71	5112.14	9013.85

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SI.	Description of Work	Unit	SR	Item	Basic Rat	e AW	Total Ra
No.			Page No	No.	in Rs.	8%	in Rs.
32	KSRRB M2200-9: Providing and laying of Filter media with stone crushed aggregates satisfying the requirements		229	28.13	616.0	0 49.28	665
33	Back filing behind abutment, wing wall and return wal complete Granular Material	l Cum	- 229	28.11	255.0	0 20.40	275.
	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint		191	24.1	44.9	0 3.59	48.
	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete Size 450 x 200 x 400 mm	3	.28	5.29.1	269.0	21.52	290.
36	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines	Cum	5	2.3	; 134.00	10.72	144.7
	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm	Cum	12	4.3	3715.00	297.20	4012.2
	KSRB 5.2-3: Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6,	Cum	25	5.6	2568,00	205.44	2773.4
	KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6,		26	5.9	3006.00	240.48	3246.4
40	KSRB 4-1.6: Providing and laying in position plain tement concrete of nominal mix 1:2:4 using 20mm	Cum	12	4.6	3959.00	316.72	4275.7
1	KSRRB M800-13: Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:		193 .	24.15	398,00	31.84	429.8
d	KSRRB M800-15: Supplying and Installation of delineators (road way indicators,	Nos.	194	24.19	338.00	27.04	365.04
	SRRB M800-2: Retro - Reflectorised Traffic Signs:- Providing and fixing of retro - reflectorised cautionary	Each	191	24.2			
9	Ocm equilateral triangle	756		333	2708.00	216.64	2924.64
6	0cm circular .				2021.00	161.68	2182.68
9	0cm high octagon				3363.00	269.04	3632.04
	SRRB M800 - 20. Tubular Steel Railing on Medium l Veight Steel Channel (ISMC Series)	Rmt	194	24.24	1154.00	92.32	1246.32
	SRRB M800-35 Providing and fixing of road stud 100 x l 00 mm, die cast in aluminium	Nos.	197	24.41	269.00	21.52	290.52
0	SRRB 1100. Bored cast - in -situ RCC Pile with PC cement						
M	ORTH specifications No. 1100, 1600 & 1700	Rmt	201	25.4	7131.00	570.48	7701.48
M	ORTH specifications No. 1100 & 1700	Rmt	201	25.5		735.84	9933.84
lo	Doing Initial vertical load test for a design pile ad of 270 Tons including cost of all equipment		(12.37(a) NHSR)	(300*6%)*2		71720.00
b) (B) Doing Horizontal load test for a design pile ad of 20 Tons	Nos.	10000000	12.37(b) NHSR)	(5000*6%)*	20*2	12000.00

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SI.	Description of Work	Unit	SR	Item	Basic Rate	AW	Total Ra
No.			Page No.	No.	in Rs.	8%	in Rs.
48	KSRRB M1200-47: Providing steel liner 10mm thick for curbs and 6mm thick for seining	Т	217	26.125	60310.00	4824.80	65134.
49	KSRRB M1100 - 11.2 Cement Concrete for Reinforced Concrete in Pile Cap D.RCC mix M35	Cum	203	25.25	4621.00	369.68	4990.
50	KSRRB 2300 - 11.3. Furnishing and Placing Reinforced Prestressed cement concrete in super structure M-45 grade complete as per specifications. F.PSC Grade M45. MORTH Specification No.1500, 1600 & 1700- Height 5m to 10m		240 ::···.	29.26.2	6884.00	550.72	7434.
51	KSRRB M2700-9. Providing, precasting, transportation and placing in position precast post tensioned concrete girders	Cum	251	32.9	17988.00	1439.04	19427.0
	KSRRB M2300-10.2. Furnishing and Placing Reinforced / Prestressed cement concrete in super - structure M-40 grade complete as per specifications. Case - II: Using Batching Plant,		239	29.22.2	5833.00	466.64	6299.6
	KSRRB M2300 - 15. High tensile steel wires / strands including all accessories for stressing, stressing operations and grouting	MT	241	29.30	147315.00	11785.20	159100.2
1	KSRRB M2200-15: Supplying, fitting and fixing in position true to line and level POT - PTFE bearings consisting of a metal piston	Nos.	230	28.19			
8	a) Guided/ fixed PTFE bearings 300MT vertical Capacity	7.7			(341*8%)*300		110484.00
t	o) Guided/ fixed PTFE bearings 180MT vertical Capacity		100		(341*8%)*180		66290.40
F	KSRRB M2200 -12: Supplying, fitting & fixing in position true to line and level sliding plate bearing with PTFE surface sliding on stainless steel	Nos.	229	28.16			
a) Guided/ fixed PTFE bearings 300MT vertical Capacity				(1064*8%)	*300	344736.00
b) Guided/ fixed PTFE bearings 180MT vertical Capacity		***		(1064*8%)	*180	206841.60
76 K	SRRB M2600-9. Providing and laying of a strip seal, xpansion joint catering of maximum horizontal	Rmt	247	31.9	14514.00	1161.12	15675.12
7 A	nti carbonate painting with approved colour as per pecifications	Sqm	Market F	Rate			200.00
ta	SRRB M500-10. Tack Coat: Providing and applying ack coat with bitumen emulsion using emulsion ressure distributor at the rate of 0.20 kg per sqm	Sqm	172	21.10.1	10.26	0.82	11.08
m. ex	SRRB M2700-1. Providing and laying 12mm thick sastic asphalt wearing coarse on top of deck slab cluding prime coat with paving grade bitumen eeting the requirements given in table 500-29,	Sqm	250	32.1	221.00	17.68	238.68
dr	SRRB M2700-5 Drainage Spouts complete as per awing and Technical specification complete as per ecifications MORTH Specification No. 2705	No.	250	32.5	1126.00	90.08	1216.08
flo	SRRB 13-9.1: Providing and fixing to wall, ceiling and For, high density polythylene pipes 6.00 kgf/sq.cm orking pressure 160mm outside	Rmt	Market Ra	ate,			1480.00

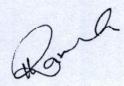
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Sl.	Description of Work	Unit	SR	Item	Basic Rate	AW	Total Rate
lo.			Page No.	No.	in Rs.	8%	in Rs.
61	KSRRB 13-9.1: Providing and fixing to wall, ceiling and floor, high density polythylene pipes 6.00 kgf/sq.cm working pressure 160mm outside		Market	Rate			1480.00
62	KSRRM M2700 -4. Providing fitting and fixing mild steel railing complete as per drawing and technical Specification.		250	32.4	2558.00	204.64	2762.64
33	KSRRB M2100 - 1.1. Earthwork in excavation for foundation of structures as per drawing and technical specifications, including setting out,		220	27.1	80.70		
	Add 10% Dewatering Charges				8.07		
					88.77	7.10	95.87
34	KSRRB M2100 - 17.1. Plain / Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. E. RCC Grade M-25.		223	27.30	4517.00	361.36	4878.36
15	Providing, casting, erection and assembling of 180 mm thick pre-cast RCC facia panel of M35 grade	Sqm	Data I	Rate			5500.00
5 6	KSRRB M300.53. Construction of embankment with approved material Gravel / Murrum with all lifts and leads, transporting to site, spreading		156	19.60	136.00	10.88	146.88
97	KSRRB 200-1: Cutting of trees girth from 600mm to 900mm including cutting of trunks, branches	Each	143	18.2	268.65	- 21.49	290.14
38	KSRRB 200-1: Cutting of trees girth from 1800mm to 2700mm including cutting of trunks, branches	Each	143.	. 18.4	1119.00	. 89.52	1208,52
	KSRRB M200-12.1. Dismantling of existing structures i) Lime/Cement Concrete. I. By Manual means, A. Lime Concrete, Cement Concrete Grade M 10 & below PCC		144	18.17	226.00	18.08	244.08
0	KSRRB M200-12.1. Dismantling of existing structures i) Lime/Cement Concrete. I. By Manual means, B. Cement Concrete Grade M-15 & M-20.	The second second	144	18.18	272.00	21.76	293.76
	KSRRB M200-12.1. Dismantling of existing structures iii) Dismantling Stone Masonary B. Rubble Stone Masonry in Cement Mortar. SSM		145	18.27	180.00	14.40	194.40
-	Removing of Footpath Slab	Sqm	268	37.56	88.70	7.10	95.80
	KSRRB 200-22.1: Dismantling of flexible pavements II. By Mechanical Means: A. Bituminous courses. MORTH Specification No. 202.	Cum	146	18.46	148.30	11.86	160.16
74	KSRRB 200-22.2: Dismantling of flexible pavements and disposal of dismantled materials I. By Manual Means: B. Granular courses. MoRT&H Specification No. 202.	Cum	146	18.45	294.00	23.52	317.52
15	KSRRB M200-12. 1. Dismantling of existing structures II. By Mechanical means, A. Cement concrete Grade M-15. & M-20.	Cum	144	18.20	300.00	24.00	324.00
8	KSRRB M200-12. 1. Dismantling of existing structures v) Steel Work in all types of sections upto a Height of 5m above plinth level excluding Cutting of Rivet - A.Including d ismembering.	tonne	145	18.33	860.00	68.80	928.80
, (Conveying the excavated earth, and disposal of- lebris etc.,	Cum	147				



SI.	Description of Work	Unit	SR	Item	Basic Rate	AW	Total Rate
No.			Page No.	No.	in Rs.	8%	in Rs.
	Average weight of earth For 20 kms		2,00x1.80	×20	72.00		
	Add loading & unloading item No.17.1 KSRRB M100-1				· 62.20		
					134.20	10.74	144.94
78	Conveying the excavated earth, and disposal of debris etc.,	Cum	147			16.7	
	Steel	1	age weight ton/cum	. 7.85			
	Basic rate for haulage of materials as per item No.17.4 KSRRB :M 100-4.1	Rs. 2	.00 Tonne Km	2.00			
-	Average weight of earth For 20 kms		2.00x7.85x	:20	314.00		
-	Add loading & unloading item No.17.1 KSRRB M100-1				100.50		
				7. E. S.	414.50	33.16	447.66
	KSRRB M800-Portable barricade in construction Zone KSRRBB M800-43: Installation of a steel portable barricade		198	24.44	2050.00	164.00	2214.00
i	Supplying, fabricating, erecting, and fixing in position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel	MT	Data I	Rate			61000.00
C	KSSRBM800 - Flagman KSSRRB M800 - 46. Positioning of a smart flagman with a yellow vest and a yellow cap and a red flag	Each	· 199	24.49	261.00	. 20.88	281.88
V	Providing and fixing project Display Board of size 1.80 vertical x 1.60 mts Horizontal made of cold rolled coil 16 Gauge	Each	81	8.47 (NHSR)	7510.00	450.60	7960.60
	SRB 2.6: Providing and filling sand in foundation upto linth to required depth for sub soil treatment	Cum	6	2.13	1207.00	96,56	1303.56
p	SRRB M2200-15: Supplying, fitting and fixing in osition true to line and level POT - PTFE bearings on sisting of a metal piston	Nos.	230	28.19			
a	Guided/ fixed PTFE bearings 300MT vertical Capacity				(341*8%)*	500	184140.00
b)	Guided/ fixed PTFE bearings 180MT vertical Capacity				(341*8%)*	320	117849.60
p	SRRB M2200 -12: Supplying, fitting & fixing in osition true to line and level sliding plate bearing ith PTFE surface sliding on stainless steel	Nos.	229	28.16			
a)	Guided/fixed PTFE bearings 300MT vertical Capacity				(1064*8%)*	500	574560.00
b)	Guided/ fixed PTFE bearings 180MT vertical Capacity		:: :		(1064*8%)*	320	167718.40
	SRRB M2100-14 Reinforced cement concrete M20 with CC cement @ 300kgs,	Cum	222	27.25	4075.00	326.00	4401.00
sig	SRRBM800-5.2. Providing and Erecting overhead in small state of the second state of th	Sqm	192	24.6	5230.00	418.40	5648.40
KS	RB 15.18.1: Applying red lead ready mix priming coat Ser new steel or other metal surface	Sqm	127	15.73	22.00	1.76	23.76

Sl. No.	Description of Work	Unit	SR	Item .	Basic Rate	AW	Total Rate
			Page No.	No.	in Rs.	. 8%	in Rs.
89	KSRB 15.18.2: Providing and applying enamel metal paint two coats (Excluding priming coat) over new steel	Sqm	127	15.74	. 71.00	5.68	76.68
90	KSRB 2.4: Refilling available excavated earth (excluding rock) in sides of foundations upto plinth	Cum	6	2.11	54.00	4.32	58.32



DATA RATE FOR THE PRECAST SLAB 100MM THICK

Ref: As per PW, P&IWTD SR 2011 - 12

Qutation:

No	Description of work	Unit	No.	Length	Breadth	Depth	Total	Rate	Amoun
				m	m	m	Quantity	in Rs.	in Rs.
1	KSRRB M2200-6. Supplying, fitting as placing TMT bar reinforcement in sustructure complete as per drawing a Technical Specifications complete as per specifications MORT&H Specification No. 1600 & 2200	nd er on		2.016					
	(P.No.229, I.No.28.8 of PW, P&IWTD S.R	2011-12).							+
	10mm @ 150 C/C		50	1.95			97.50		-
	9.75x0.62=6.05kg						60.45		
	Distributions 8mm @ 200mm C/C		100	0.55	each a		55.00		
	5.5x0.39=2.15 kg						21.45		
							81.90		
			0				0.082	12 to 12	
						Say	0.10	68274.36	6827.00
	KSRRB M2100-15.1. "KSRRB M2100-1 Plain / Reinforced cement concrete M2 with OPC cement @ 320kgs, with 20 m and down size graded granite metal coars aggregates @ 0.69cum and fine aggregate @ 0.46cum, with superplastisiser @ 3lt confirming to IS9103-1999 Reaffirmed 2008, in open foundation complete as ped Drawing & Technical specifications Case	n m ee es s s							
(Using Concrete Mixer" MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR 		. 10	1.90	0.00	210	. :		
(f: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100		10	1.80	0.60	0.10	1.08	•	
(Using Concrete Mixer" MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR 			1.80	0.60	0.10 Say	1.08	4707.72	5178.00
(Using Concrete Mixer" MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR 			1.80	0.60			4707.72 Tota- A	5178.00 12005.00
	I: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27,26 of PW, P&IWTD SR or Slab			1.80	0.60				
	I: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab	2011-12)	10	1.80	0.60				
	I: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27,26 of PW, P&IWTD SR or Slab	2011-12) TD SŘ 201	10	1.80				Tota- A	12005.00
	I: Using Concrete Mixer" MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR For Slab abour charges for fixing of precast slab P.No.XXXXVI, Sl No 12 & 6 of PW, P&IW Iason	2011-12) TD SŘ 201	1-12)	1.80	0.60	Say	1.10	Tota- A	189.00
	I: Using Concrete Mixer" MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27,26 of PW, P&IWTD SR For Slab about charges for fixing of precast slab P.No.XXXXVI, Sl No 12 & 6 of PW, P&IW	2011-12) TD SŘ 201	10	1.80		Say		Tota- A	12005.00
	I: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR For Slab abour charges for fixing of precast slab P.No.XXXXVI, Sl No 12 & 6 of PW, P&IW Iason Iazdoor/Bisti	2011-12) TD SŘ 201 per day per day	1-12)			Say	1.10	Tota- A	189.00
	I: Using Concrete Mixer" MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR For Slab abour charges for fixing of precast slab P.No.XXXXVI, Sl No 12 & 6 of PW, P&IW Iason	2011-12) TD SŘ 201	1-12)	1.80		Say	1.10	Tota- A	189.00
	I: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No.XXXXVI, Sl No 12 & 6 of PW, P&IW Hason Hazdoor/Bisti cinting in CM(1:3) for drain slab Haterials:	TD SŘ 201 per day per day Cum	1-12)			Say	1.10	Tota- A 188.74 184.74	189.00 3 69.00
L C O	E: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IW Iason Lazdoor /Bisti ointing in CM(1:3) for drain slab laterials: ement required is 35.7% =0.357 cum of	2011-12) TD SŘ 201 per day per day Cum	1-12)			Say	1.10	Tota- A	189.00
1 1 1 1 1 1 1 1 1 1	E. Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IW lason Lazdoor /Bisti ointing in CM(1:3) for drain slab Laterials: Ement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 201.	TD SŘ 201 per day per day Cum Qt	1-12)			Say	1.10	188.74 184.74 580.00	189.00 369.00
LL (I) M M Coo (P	E. Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27, 26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IW Iason Lazdoor /Bisti cointing in CM(1:3) for drain slab Laterials: Lement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 201 Land 1.07 per cum	TD SŘ 201 per day per day Cum Qt -12) Cum	1-12)			Say	1.10	Tota- A 188.74 184.74	189.00 3 69.00
LL (II M M Cook (P See (P	E. Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IW lason Lazdoor /Bisti ointing in CM(1:3) for drain slab Laterials: Ement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 201.	TD SŘ 201 per day per day Cum Qt -12) Cum	1-12)			Say	1.10	188.74 184.74 580.00	189.00 369.00
LL (II) MM PP MM CGG (P) Lee	E. Using Concrete Mixer MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27, 26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IWI lason Lazdoor /Bisti Cointing in CM(1:3) for drain slab Laterials: Ement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 2011 and 1.07 per cum No. II, Sl No 28 of PW, P&IWTD SR 2011 Abour	TD SŘ 201 per day per day Cum Qt -12) Cum	1-12)			Say	1.10 1 2 0.011 0.57	188.74 184.74 580.00	189.00 369.00 311.00
LL (III) MM CC(P) See (P) Lee Missing	E. Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27, 26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IW lason Lazdoor /Bisti Cointing in CM(1:3) for drain slab Laterials: Ement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 2011 and 1.07 per cum No. II, Sl No 28 of PW, P&IWTD SR 2011 Abour ate 0.25per 1.0 cum	TD SŘ 201 per day per day Cum Qt 1-12) Cum -12)	1-12)			Say	1.10	188.74 184.74 580.00	189.00 369.00
L CO P MM CO (P Lee Main (P)	I: Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IWI Lason Lazdoor /Bisti Cointing in CM(1:3) for drain slab Laterials: P. Mo. IV, Sl No 84 of PW, P&IWTD SR 2011 and 1.07 per cum No. II, Sl No 28 of PW, P&IWTD SR 2011 abour Later 0.25 per 1.0 cum No. XXXXVI, Sl No 12 of PW, P&IWTD SR	TD SŘ 201 per day per day Cum Qt 1-12) Cum -12)	1-12)			Say	1.10 1 2 0.011 0.57	188.74 184.74 580.00	189.00 369.00 311.00
LL OF MARCH CONTRACTOR OF PROPERTY OF PROP	I: Using Concrete Mixer MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IWI Lason Lazdoor /Bisti Cointing in CM(1:3) for drain slab Laterials: Ement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 201. Ind 1.07 per cum No. II, Sl No 28 of PW, P&IWTD SR 201. Inbour Late 0.25per 1.0 cum No. XXXXVI, Sl No 12 of PW, P&IWTD SR ldar 0.50per 1.0 cum	2011-12) TD SR 201 per day per day Cum Qt 1-12) Cum -12) each R 2011-12)	1-12)			Say	1.10 1 2 0.011 0.57	188.74 184.74 580.00	189.00 369.00 311.00
LL OF MARCH CONTRACTOR OF PROPERTY OF PROP	E. Using Concrete Mixer" MORTI Specification No. 1500, 1700 & 2100 P.No. 222, I.No. 27.26 of PW, P&IWTD SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IWID SR For Slab Labour charges for fixing of precast slab P.No. XXXXVI, Sl No 12 & 6 of PW, P&IWID SR P.No. IV, Sl No 84 of PW, P&IWTD SR 2011 Laterials: Lement required is 35.7% =0.357 cum of P.No. IV, Sl No 84 of PW, P&IWTD SR 2011 Land 1.07 per cum LNo. II, Sl No 28 of PW, P&IWTD SR 2011 Labour Laterials: Laterial	2011-12) TD SR 201 per day per day Cum Qt 1-12) Cum -12) each R 2011-12)	1-12)			Say	1.10 1 2 0.011 0.57	188.74 184.74 580.00	189.00 369.00 311.00

						32			
Sl.	Description of work	Unit	No.	Length	Breadth	Depth	Total	Rate	Amount
No.				m	m	m	Quantity	in Rs.	in Rs.
HEY.	Water man 0.20 per 1.0 cum		100		10,000,000	EST .			
	(P.No.XXXXV, SI No 6 of PW, P&IWTD SI	R 2011-12)							
		each	0.002				0.0023	184.74	0.42
5	Transportation charges (Tractor)								
	(P.No.XXXIX, SI No 37 of PW, P&IWTD SR	2011-12)							
		hour					8.00	162.00	1296.00
								Total-B	2200.42
	Overhead charges @ 10% for item No 3,4&								220.04
7	Add for Contractor Profit @ 10% for item N	0 3,4&5							220.04
200									14645.50
							10Sqm	Say	14650.00
							Per Sqm		1465.00

DATA RATE FOR M.S GRATING (Catch Drain)

Ref: As per PW, P&IWTD SR 2011 - 12 ·

Quatation:

Consider Drain of size of 0.50mx 0.40m = 0.20 Sqm

No	Description	Unit	Nc.	L	В	D	Quty	Rate in Rs.	Amount i
a	Materials:			87.610					
1	Supplying, fabricating, erecting, and fixing i position, inserts and embedments, Truss, clamps brackets, insert plates and all miscellaneous steel work as shown in drawing and as directed by the Engineer a all depths, using MS angles, channels, steel beams, rails tees, plates, flats, rounds squares etc., of various size and other structural section confirming IS 2062 grade A medium class GI pipes etc., including straighting	s, t		•					
	cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat of meta primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes, devices and plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing peices etc., complete with all lead and lifts as directed by the Engineer-in-charge.				·				
_	ingle 50x50x6	Kgs	1	1.80			1.80		
- 4	.5 kg/m						8.10		
1									
1	I C PI					P/15	0.20		
	I S Flats 10x45 @40mm c/c		14	0.40		0.0005	0.002		
	f S Flats 10x45 @40mm c/c 002x7850kg/cum		14	0.40		0.0005			
O A			14	0.40		0.0005	0.002		
A B	002x7850kg/cum nchor Bar 10mm dia @ 150c/c On both sides - Top and					0.0005	0.002 19.08		
A B	002x7850kg/cum nchor Bar 10mm dia @ 150c/c On both sides - Top and ottom						0.002 19.08 2.50	kgs	
0 A B	002x7850kg/cum nchor Bar 10mm dia @ 150c/c On both sides - Top and ottom 0mm dia =2.50mx0.62kg/m=1.55					0.0005	0.002 19.08	kgs 41000.00	1178.00
A B 10	nchor Bar 10mm dia @ 150c/c On both sides - Top and ottom omm dia =2.50mx0.62kg/m=1.55 or Fabrication, labour, cutting, welding, electricity etc., arges	Kgš.					0.002 19.08 2.50	-	1178.00 1178.00
A B 10	nchor Bar 10mm dia @ 150c/c On both sides - Top and ottom mm dia =2.50mx0.62kg/m=1.55 or Fabrication, labour, cutting, welding, electricity etc.,	Kgš.					0.002 19.08 2.50 . 1.55 0.0287	41000.00	1178.00
A B 10	nchor Bar 10mm dia @ 150c/c On both sides - Top and ottom omm dia =2.50mx0.62kg/m=1.55 or Fabrication, labour, cutting, welding, electricity etc., arges	Kgš.					0.002 19.08 2.50	41000.00 : 20.00	1178.00 575.00
A B 10	nchor Bar 10mm dia @ 150c/c On both sides - Top and ottom omm dia =2.50mx0.62kg/m=1.55 or Fabrication, labour, cutting, welding, electricity etc., arges	Kgś.					0.002 19.08 2.50 . 1.55 0.0287	41000.00	1178.00

DATA RATE FOR M.S GRATING (Shoulder Brain

Ref: As per PW, P&IWTD SR 2011 - 12

Quatation:

Consider Drain of size of 0.260mx0.260m = 0.070 Sqm

31	Description	Unit	No.	L	В	D	Qnty	Rate in Rs.	Amount in
a	Materials:								
	Supplying, fabricating, erecting, and fixing in position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams, rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straighting, cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes, devices and		•			0.07			
	plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing peices etc., complete with all lead and lifts as directed by the Engineer-in-charge.								
1	Angle 25x25x3	Kgs	· 1	1.40		0.0002	0.0002		
10	0.0002x7850kg/cum :		1				1.65		Sa to
1									
I	M S Flats 5x25 @40mm c/c		7	0.30		0.0001	0.0003	Adjeto Senskia	
10	0.0003x7850kg/cum						2.06		
	Anchor Bar 10mm dia @ 150c/c On both sides - Top and		4	0.15	-		0.60		
1	0mm dia =0.60mx0.62kg/m=0.37						0.37	kgs	
-	77.8.W 7.7.					Total Qty	0.0041	41000.00	167.0
									167.
	or Fabrication, labour, cutting, welding, electricity etc.,	Kgs							
(2	is per quotation enclosed)			1			4.08	20.00	82.0
								Total	249.0
							: Rat	e per Sqm	2766.6
						TENEDS T		Say Rs	2767.0

Data Rate for fixing of Manhole Cover

Ref: As per PW, P&IWTD SR 2011 - 12

Consider-10Nos. Manhole Cover

Sl.		Unit	No.	Total Quantity	Rate	Amount
-		+		Qualitity	in Rs.	in Rs.
1	C.I. Manhole cover 600 X 600 100KG WT	No	10	10.00	5009.00	50090.00
	(Pg No. XXXVI of PW,P & IWTD SR 2011-12)					
2	Labour charges for fixing of Cover	1				
	(P.No.XXXXVI, Item No.12 & 6 of PW, P&IWTD SR		BJE I			
	Mason Class1	per day	0.5	0.5	188.74	94.37
•	Mazddor light/Bisti	per day	2	2	184.74	369.48
3	Transportation charges (Tractor)					
	(P.No.XXXIX, SI No 37 of PW, P&IWTD SR 2011-	12)		Tracing and a		
		hour		8.00	162.00	1296.00
						51849.85
4	Overhead charges @ 10%					5184.99
. 5	Contractor Profit @ 10%			:		5184.99
						62219.82
				3 .	Say	62220.00
				Rate	e/ Cover	6222.00

DATA RATE FOR M.S GRATING FOR RAMP PORTION

Ref: As per PW, P&IWTD SR 2011 - 12

Consider Drain of size of 16x1.0 = 15.00 Som

Supplying, fabricating, erecting, and fixing in position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams, rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straighting, cutting, flatpicating, welding, bending to slope fixing to position, welding to insert plate embedded in concrete and inclusive of 2coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes, devices and plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing peices etc., complete with all lead and lifts as directed by the Engineer-in-charge. Angle 90x90x10 Kgs 1 38.72 38.72 38.72 38.72 38.72 38.72 38.72 38.72 38.72 38.72 38.72 39.72 458 1.00 0.012 0.090 0.495 576.93 MS Flats 12x90@35mm c/c 458 1.00 0.012 0.090 0.495 0.495x7850kg/cum 3 16.00 48.00 48.00 3884.14 20nnm Dia bar 3Nos (2.47 Kg/m) 3 16.00 48.00 50x50x6 Angle Holdfast @300 c/c 243 0.38 93.15 45 kg/m Total Qty 5.518 42000,00 For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)	Rate in Amount		Qnty	D	В	L	t No	Uni	SI Description
position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams, rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straighting, cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes, devices and plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing pelces etc., complete with all lend and lifts as directed by the Engineer-in-charge. Angle 90x90x10 Kgs 1 38.72 38.72 13.4 kg/m Kgs 1 38.72 38.72 38.72 14.9 kg/m MS Flats 12x90 @35mm c/c 0.495x7850kg/cum 458 1.00 0.012 0.090 0.495 0.495x7850kg/cum 30x50x6 Angle Holdfast @300 c/c 243 0.38 - 93.15 4.5 kg/m Total Qtv 5.518 42000.00 For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation encloses)	Rs. Rs.	Rs.	-	-	1		1		
Engineer-in-charge. Angle 90x90x10 Kgs 1 38.72 38.72 13.4 kg/m 518.85 Angle 100x100x10 Kgs 1 38.72 - 38.72 14.9 kg/m M S Flats 12x90 @35mm c/c 0.495x7850kg/cum - 3884.14 20mm Dia bar 3Nos (2.47 Kg /m) 3 16.00 48.00 50x50x6 Angle Holdfast @300 c/c 4.5 kg/m - 419.16 Total Qtv 5.518 42000.00 For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)									Supplying, fabricating, erecting, and fixing is position, inserts and embedments, Truss, clamp brackets, insert plates and all miscellaneous steel work as shown in drawing and as directed by the Engineer a all depths, using MS angles, channels, steel beams, rails tees, plates, flats, rounds squares etc., of various size and other structural section confirming IS 2062 grade A medium class GI pipes etc., including straighting cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat o metal primer. The rate quoted is to include the cost of al materials, labour, tools, tackets, cranes, devices and plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing peices etc., complete with all lead and lifts as directed by the
Angle 90x90x10								Cam	Engineer-in-charge.
13.4 kg/m						20.70	1		Angle 90x90x10
Angle 100x100x10 14.9 kg/m M S Flats 12x90 @35mm c/c 0.495x7850kg/cum 458 1.00 0.012 0.090 0.495						30.12		VAS	13.4 kg/m
14.9 kg/m			518.85					A	
M S Flats 12x90 @35mm c/c 458 1.00 0.012 0.090 0.495			38 72	-	1.	38.72	1	Kgs	Angle 100x100x10
M S Flats 12x90 @35mm c/c 458 1.00 0.012 0.090 0.495 0.495x7850kg/cum 3884.14 20mm Dia bar 3Nos (2.47 Kg /m) 3 16.00 48.00 118.56 50x50x6 Angle Holdfast @300 c/c 243 0.38 - 93.15 - 419.16 Total Qty 5.518 42000.00 For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)					9-2 -				14.9 kg/m
0.495x7850kg/cum									M S Flote 12×00 @25
20mm Dia bar 3Nos (2.47 Kg /m) 3 16.00 48.00 50x50x6 Angle Holdfast @300 c/c 4.5 kg/m 243 0.38 - 93.15 - 419.16 Total Qty 5.518 42000.00 For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)			The state of the s	0.090	0.012	1.00	458		
50x50x6 Angle Holdfast @300 c/c 243 0.38 93.15 45 kg/m 419.16 Total Qty 5.518 42000.00			3884.14						
50x50x6 Angle Holdfast @300 c/c 243 0.38 93.15 45 kg/m 419.16 Total Qty 5.518 42000.00			10.00	-		16.00	3		20mm Dia bar 3Nos (2.47 Kg/m)
4.5 kg/m			-		T	10.00			
For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)		-				0.38	243		50x50x6 Angle Holdfast @300 c/c
For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)			THE RESERVE OF THE PARTY OF THE						4.5 kg/m
For Fabrication, labour, cutting, welding, electricity etc., charges (as per quotation enclosed)	2000.00 23 1740.0	42000 00		al Qty	Tot				
(as per quotation enclosed) Kgs	23 1740.0								For Fabrication 1-1
(as per quotation enclosed)	20271010								charges
5517 69 00 00							-	ngs	The state of the s
	20.00 110353.0		5517.63	-	-	-	-	-	- Charles ()
Total					-				
Rate per Sqm Say Rs					-		-	-	

DATA RATE

Data Rate for Providing, Casting, Erection and Assembling of 180 mm thick Pre-Cast RCC Facia
Panel

SI. No.		Unit	Quantity	Rate In Rs.	Amount i
1	Providing, casting, erection and assembling of 180 mm thick pre-cast RCC facia panel of M35 grade aesthetically finished cruciform shape mechanically stabilized reinforced earth wall to the required line, grade and cross sections with hot dip high adherence strips and panel lugs of required length having width and thickness of 40 x 5mm at specified interval. Panels				
	are to be seated in each other using two numbers EPDM rubber seating pad per panel. vertical joints should be covered with Geo-textile filter cloth glued to the panel and horizontal joints to be provided with 25 mm dia. Polyethylene foam joint filler, 160 mm dia. PVC pipe of 10 Kg./cm² wrapped with non woven geo textile with perforation of 5mm dia. at staggered intervals of 10 cm c/c etc., complete as per approved drawing and specification including cost of hot dip high adherence strip, legs, geo-textile cloth, EPDM pad, polyethylene foam, joint fillers, tie strips, fasteners and all accessories, coping beam (if any), drainage layer, drain pipe etc cost of all materials, form work, cost of HYSD reinforcement steel				
	and fabrication design with all lead and lift, loading, unloading, stacking, hire charges of machineries as approved by the Engineer in charge as directed by the Engineer in charge.				
	Unit = 1Sqm				
a	As per Quotation from Reinforced Earth India Pvt., Ltd. (Quotation enclosed)	Sqm	1.00	3920.00	3920.00
b 5	Statuary Levies & applicable Taxes @ 15%			200	588.00
1			· Su	b total A	4508.00
e A	Add for Over Heads & Contigencies @ 12%				540.96
1 A	Add for Contractor Profit @10%				450.80
+			Sul	total B	5499.76
1	Cost per Sqm			Say	5500.00

DATA RATE FOR THE PROVIDING AND LAYING 20mm GRANITE JELLY

Ref. As per PW, P&IWTD SR 2011 - 12

Quatation:

"Consider 10 Cum"

S. No	Description	Unit	·No.	L	В	D	Qnty	Rate in Rs.	Amount in
1	Providing and laying 20mm thick granite jelly including with all lead and lift, loading and uploading, tools, plants, cost of materials, labours and other incidental charges etc., complete as per specification and as per the directions by the Engineer in charge of the work.								
a	Materials:								
1	20mm nominal size granite jelly	Cum		NEVIE					
	(P.No.I, Item No. 14 of PW, P&IWTD SR 2011-12)		10				10	850.00	8500.00
b	Labour Charges				100	JE - 40		Total A:	8500.00
	(P.No.XXXXVI, Item No.12 & 6 of PW, P&IWTD SR 2011-12)	Nos.			,				
1	Mason Class I		0.80				0.80	188.74	151.00
2	Mazdoor Light / Bisti .		7				7.00	184.74	1293.00
	Abstract'							Total B:	1444.00
а	Materials:						-		8500.00
b	Labour Charges						-		1444.00
				100					9944.00
c	Add Contractor's Profit @ 10%								994.40
d	Add Overhead Charges @ 10%					1.1			994.40
									11932.80
1							Rat	e per cum	1193.28
								Say Rs.	1194.00

DATA RATE FOR THE PROVIDING AND LAYING 40mm GRANITE JELLY

Ref: As per PW, P&IWTD SR 2011 - 12

Qutation:

"Consider 10 Cum"

SI No	1 - Contribution	Unit	No.	L	В	D	Qnty	Rate in Rs.	Amount in
1	Specification: Providing and laying 40mm thick granite jelly including with all lead and lift, loading and uploading, tools, plants, cost of materials, labours and other incidental charges etc., complete as per specification and as per the directions by the Engineer in charge of the work.								
a	Materials:				575.1			2000	
1	40mm nominal size granite jelly	Cum	:		75-1				New York
And S	(P.No.I, Item No. 11 of PW, P&IWTD SR 2011-12)		10				10	600.00	6000.00
		72.44						Total A:	6000.00
b	Labour Charges	Nos.			7	7. 1. 11		HOP THE	eligiber (ges
	(P.No.XXXXVI, Item No.12 & 6 of PW, P&IWTD SR 2011 12)								
1	Mason Class I		0.80				. 0.80	188.74	151.00
2	Mazdoor Light / Bisti		7				7.00	184.74	1293.00
								Total B:	1444.00
	Abstract .								
а	Materials :								6000.00
b	Labour Charges								1444.00
						n de			7444.00
С	Add Contractor's Profit @ 10%					4			744.40
d	Add Overhead Charges @ 10%								744.40
									8932.80
						- 65	Rate	per cum	893.28
								Say Rs.	894.00



Ref: As per PW, P&IWTD SR 2011 - 12

Qutation:

SI No	Description	Unit	No.	L	В	D	Qty	Rate in Rs.	Amount in Rs.
a	Materials:								
	Supplying, fabricating, erecting, and fixing in position, inserts and embedments, Truss, clamps, brackets, insert plates and all miscellaneous steel works as shown in drawing and as directed by the Engineer at all depths, using MS angles, channels, steel beams, rails, tees, plates, flats, rounds squares etc., of various sizes and other structural section confirming IS 2062 grade A, medium class GI pipes etc., including straighting, cutting, fabricating, welding, bending to slope fixing to position, welding to insert plate embeded in concrete and inclusive of 2coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all materials, labour, tools, tackets, cranes, devices and plants, wastage etc., as per specifications and drawings complete. Including cost of bolts, nuts, washers, clamps, welding, electrodes, and connections required for the work. Rate to include shims and packing peices etc., complete with all lead and lifts as directed by the Engineer-in-charge.	MT							
	(P.No.XIV, Item No.385 of PW, P&IWTD SR 2011-12)							41000.00	41000.00
b	For Fabrication, labour, cutting, welding, electricity etc.,	Kgs							
- 1	charges								
(as per quotation enclosed)							20.00	20000.00
				CUIE N			1	Rate per Kg	61000.00
						La Salara		Say Rs	61000.00

Sri Kalikamba Fabrication Work

Peenya 2nd Stage, Andrahalli Main Road, Sindicate Bank Stop, 1st Main, 1st Cross, Bangalore – 560 091 Cell: 9743260506, 9742530013

Ref. No .:

Date: 20-11-2012

Dear Sir,

Sub: Quotation for MILD / HYSD / TMT / Structural Steel Fabrication Charges.

With Reference to the above we first of all thank you for the valued enquiry made with us towards MILD / HYSD / TMT / Structural Steel Fabrication Charges.

Here we are quoting our charges

SI. No.	Description	Unit	Rate in Rs.
	Fabricating, erecting and fixing in position, inserts and embedment, Truss, Clamps, Brackets, Inserts Plates and all miscellaneous Steel Works as shown in Drawing and as directed by the Engineer at all the depths, using MS Angles, Channels, Steel Beams, Rails, Tees, Plates, Flats, Rounds, Squares, etc. of various sizes and other Structural Sections conforming IS 2062 Grade A, medium class GI Pipes, etc. including straightening, cutting, fabricating, welding, bending to slope fixing in position, welding to insert plate embeded in concrete and inclusive of 2 coats of enamel paint over one coat of metal primer. The rate quoted is to include the cost of all Labours, Tools, Tackets, Cranes, Devices and Plants, Welding Electrodes, Bolts, Nuts, Washers, Clamps, Connections, Shims and Packing pieces, etc. required for the Work as per the Specification and Drawings complete with all lead and lifts as directed by the Engineer - in - charge	Kg.	20.00

We trust that our offer falls in line with your requirement and looking forward to the pleasure of executing your valued order.

Thanking you and assuring you of our sincere support and services at all times

SAI KALIKAMBA FABRICATION
1st Main, 1st Cross, Peenya 2nd Stage,
Andrahalli Main Road, Syndicat Bus Stop,
BANGALORE - 560 091.

Detailed Cost Estimate for Utility Shifting



Bharath Sanchar Nigam Ltd.,
O/O the Dy. General Manager NWP-I,
Bangalore Telecom District, 5th flr,
Telephone House, CTO Bldg, Bangalore-1.
Ph. 22868400, 22868544, Fax-22861400.

No.PLG-6 /Shift of cables in hord Croad 2010-13/3 Dated: 16.08.2012.

To:

The Chief Engineer, (Project-1), BBMP, NR Squre, Bangalore-560,002.

Sir,

Sub: Estimate for shifting of cables along Chord Road due to construction of Flyovers-And Underpasses for Grade separators in West of Chord road.

Ref: LrNo., CE (P-1)/PR/24/12-13, dated 18.07.2012. from CE (P-1), BBMP.

With reference to your letter cited above, please find here with the enclosed two contribution estimates for shifting

1. Copper cables for Rs. 2414379/-

2. OF cables for <u>Rs. 883919/-</u>

Total Rs. 32,98,298/- Say Rs. 33Lakhs

This is only an approximate estimate cost worked out. Exact amount will be intimated after sanction of the estimates. Shifting work will be taken up after receipt of necessary payment from BBMP.

This is for your kind information and N/A please.

Thanking you

AND DESCRIPTION OF THE PROPERTY OF THE PARTY OF THE PARTY

Yours faithfully

AGM-CP

Hहायक महो प्रीयक

ASST. GENERAL MANAGER

CAPLE PLANNING

RENGINEER Telecom District,

बंदा राज्य (Sangalore-560 001)

Ot. 22(8) 10(1)



BHARAT SANCHAR NIGAM LIMITED O/O GENARAL MANAGER DEVELOPMENT BANGALORE TELECOM DISTRICT BANGALORE 560001

Estimate No.: This is a Contribution Estimate

Total	SKM	0.80
Total	СКМ	1605.00

Estimate for shifting copper cables along Chord road due to costruction of FLYovers Underpasses by BBMP

	Capital	177	Total	-	Passed
Summary of Expenditure	134 A		14. 12	4.	. · Fo
	104 A			3.7	
CASH:	0		0		1. 1. 1. 1.
Primary Distribution	0	1000000	. 0		
Local Distribution	. 0		264963.79		
Labour			1975.00		
Local Purchases		11 12-	. 0		
Over head Charges as per Annexture			0.00		
Misc & Unforeseen			256938.79		
Green Cach Expenditure				. 15., ,	
Deduct anticipated sale proceeds of					
unserviceable stores.					
			266938:79		
Net Cash Expenditure			200530.15	1 197	
The control of the state of the		1.	1508505,45		
STORES:(UNDER CASH PURCHASE)	1 1 1 1	1	1300303773	100	
STORES (OND E)			() () () () () () () () () ()		1
Value of stores to be issued from stock					
Deduct - Value of serviceable recovered			200		
stores to be returned to stock at	and the second	N. Control		-	-
prescribed rates			TENDENE AF		
prescribed rates			1508505.45	44	1
Net stores expenditure		1 1 1 1			
Total expenditure	e		1773444.24		
		25 100			1
Over Hwead charges for Contribution	n	1000			
Over Hwead enarges for community	k	A-1 -	640935		-
Grand Total			2414379.		
Gianaron		126		1	
			Patients.	1	1 2

I consider that the quantities and rates provided are fair.

DEPUTY GENERAL MANAGER

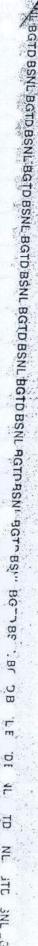
Cabib Flanning

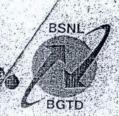
Bharath Sanchar Nigsm Limited. Bangalore 560 CO1.

Asst.Genl. Manager (CP) BENL BGTD

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BHARATH SANCHAR NIGAM LIMITED O/O THE GENERAL MANAGER (DEVELOPMENT) BANGALORE TELECOM DIST BANGALORE 550001.

Justification & Specification Report

This estimate privides for shifting copper cables along Chord road and service road due to construction of Flyovers and Underpasses along Chord road for signal free corridor from Manjurathanagar to 71'st cross

This is with reference to CE Project 1 letter No. CE9P-1)/PR/24/12-13, dated 18.07.2012. BBMP. This is a contribution estimate. Demand not will be raised to BBMP for making necessary payment fowards shifting charges as per the est.

Folloing cables are required for shifting the copper cables

Size Requirement 1.2000 pr JF 100M 2.1200 pr JF 450M 3.800 pr JF 50M

4-200 prUF 50M This cable is required for attending faults during the execution of work by BBMP

5, 100 pr JF 100m do 6, 50 pr JF 50M do

Necessary lie diagram shoing the details of existing cable and shifting details

This estimate is prepared as per the tender rates approved for cable laying works by HDD method and open trenching method for west areas.

Reinstatement charges payable to BBMP has not been charged in this estimate assuming that the BBMP will give permission for shifting.

Separate estimate is prepared for OF cable shifting.

The difference in cable length and trench length is due to jointing overlap and for termination tails at pillars. Adequate provision is made for all items of stores, local purchases.

The work is of normal nature and no constructional difficulties are anticipated.

The work will be carried out by AGM NWO VIJ-N/ SDE Cables VIJ-N.

ASST. GENL. MANAGER- CP BSNL, BGTD BANGALORE-1

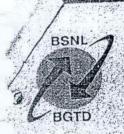
_. सहायक महो गर्वेदक

ASST. GENERAL MANAGER

CAPT CARRO

Bangalore Telecom District,

Bangalore-560 001,



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BGTD BSNL BGTD BSNL BGTD BSNL BGTD BSNL BGTD

STORES Amount Quantity Rate/Unit Item Details 192448:00 100 M R/L No. 1924.48 /M 2000/4 JF cable 1125567.00 450 M 135615 2501.26 /M 1200/8.5 JF cable 135428 44325.50 50 M 886.51 /M 800/0.4 JF cable 15778.00 135325 50 M 315.56 /M 200/6.5 JF cable 100 M 21954.00 134824 219.54 /M 100/8.5 JF cable. 5969.50 50 M 134624 119.39 M 50/6.5 JF cable 22647.90 134525 6 nos 3774.65 /KIT TSF KILNO 7 9638,58 131607 6 nos 1606.43 /Kit 4167.28 131606 TSF Kit No.6 4 nos 1041.82 /Kit TSF KILNO.5 6 nos 4882.68 131605 813.78 /Kit TSP KITNO.4 4036.20 131604 10 nos 403.62 /Kit TSF KILNO.3 2175.72 6 nos 362.62 /Kit TSF Kit No.2 131602 Modular Connector 45540.00 2000 nos 22.77 /each S-TYPE 4700,40 20 Nos 235.02 /each DP BOX 5 PR 1680.00 200 nos 8.4 each 0.00 SG Tape m 397 m 100mm GI Pipa 994.69 Add for packing 1% (excl cables) 1506505.45 TOTAL Store

1.Labour Amount Onty Excavating A type trenchesincluding back filling Rate compacting and removing excess earth 9153,00 180 Mtrs 50.85 per mtr Tarmac/ Asphait road 4773,15 45 106.07 per mtr 1D22. Ashpalt road for more cables 0.00 8 . Trenchiess Boring & Laying cable 204943,20 440 Mtrs. 465.78 per mtr c). From 101 to 150 mm dla / up to 2000pr cable 0.00 10. Pulling and laying of cables in trenches. 157.00 50 Mtra. 3.14 per mtr 640.50 150 Mtrs. I) up (o50 pairs 4.27 per mtr. 0.00 O Mtrs. 1) 100/200 pairs 15.69 per mtr 1079.00 50 Mtrs. 111) 400 pair= 21.58 per mtr 1339.00 100 Mtrs. N) 800 pairs 13.39 per mtr 0.00 v) 1200 prs and above 0 18.Jointing of cables (straight &branched) 0.00 2861_18 -joints and end to end testing. 6 nos 478.86 /oints 5781.20 10 nos a.Up to 50 prs. 578.12 /joints 4073_70 6 nos b. 100 prs. 678.95 /joints 0.00 Onos c: 200p rs 878.73 /joints 5127.24 4 nos d. 400 prs. 1281.81 /joints 10109,34 1), 800 prs 6 nos e. Above 400 prs. 1684.89 /joints 14946.30 2) 1200 pra 6 nos 2491.05 /joints 3) 2000 prs 284963,79 LABOUR TOTAL



LOCAL PURCHASE (inclusive of all Taxes & Duties)

1000	i) Kerosene oil	30 ltrs.	1350,00
	j) Cotton waste. 25 per Kg.	25 Kgs.	625.00
	LOCAL PURCHASE TOTAL		1975.00

3 MISCELLANEOUS

I. Reinstatement charges Rate Onty	Amount
assuming BBMP will give permissin because of their work, shifting is involved.	
MISC: TOTAL	0.00

SUMMARY

[8:37:784025-12:3046-2:37:38]	STORES		10. 10. 19A. 1		1508505,45
Secretaria de la constantina del constantina de la constantina de la constantina de la constantina del constantina de la constantina de la constantina del			N. Francisco		100000,40
MAGNETS METORICAL SERVICE SERVICES (1974)	12.772612.28	7-1-2		1	1 5 5 7 7 7
	CASH:				104-77
	。 这种形式计			1 1 1	
	¥		: 1. M		A State of the state of
1. Primary Distribution	1.37.7.20.5.4.1	1.00	0		
2. Focal Distribution	2		. 0		
takaBour	Karana arak	200	284963.79		
2. Local Purchase	* 100		1975,00		
3. Miscellaneous	ESTATE OF THE	10, 124	0.00	100	
Cash	TOTAL		266938.79	11.1.1	266938.79
			a company of the comp		* F
	GRAND TOTAL			11	1773444.24

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O/O the Divisional Engineer,Cable pl	anning, Ban	galore Telec	om District,		
(Telephone h	ouse,5th flo	or, Raj Dnavi	an road,		
BAN	IGALORE -5	00001		-	
~ *******		- Gr Cantab	ution Marko		
Caliculation of C	ost particular	S IOI CONUID	unon vvorks	11111	
(Ref. Para 152,	ANNEXT	A OI FOLT III	annual voix)	7.5	
The second secon	MAINEAL	200			
Name of Work: Shifting of Copper cables alo	na Chord ro	ad due to co	nstructions of F	vovers	
and Underpasses on Chord road by BBMP		X .			
		10 1. 5.75		a sureling and thousand	
	4. C. L. L.			(f) 1.7	
		17 10 1 17 1			
And the second s		11			
STORES(as per Estimate)		(1)	1506505.448		
FREIGHT ON STORES (0.5%)		(ii)	7533		
		•	4544000		
Total		Α	1514038		The second second
		100	196825	100	
Establishment Charges on (A) (13%)			190023		
CI - V - CI CI (I)(V)			135585		
Store Keeping Charges on Stores(9%)			700000		
	Total	В	1846448	93.3	
	2	. 1		100	17 1
CASH (as per Estimate)		(iii)	266939		
	14 15 15 15 15 15				
ESTABLISHMENT CHARGES	te e in terror	12 1000			
on Cash(13%)	and the second	(iv)	24024		
7. (1.1) [1.1] 1. (1.1) [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1] [1.1]	4 / 1 / 1 / A				
Total Cash Expenditure including	<u> </u>		~~~~~		
leptl charges (iii + iv)		C	290963		
	9.0	D	2137412		
Total Cost of the work	B+C	- 10	2137412	1	
Adhoc on B		7.1			
15% for Contributory	THE ATTE	E	276967		3,44
- Continued - Cont	B to Can				
	- 7				
Amount Recoverable	(D+E)	F	2414379		
	1.07				
		7.5			
O: THE Chief Engineer (Project-1)					
BBMP, NR Square					
BANGALORE 560 099.					
The second secon					



BHARATH SANCHAR NIGAM LIMITED O/O THE GENERAL MANAGER (DEVELOPMENT) BANGALORE TELECOM DISTRICT, RAJABHAYAN ROAD, BANGALORE 560 001.

EST.NO.

This is a Contribution Estimate.

Estimate for shifting OF cables along Chord road due to costruction of FLYovers and

Underpasses by BBMP

Summery of Expenditure	Cepitel		Total		Passed
。 第二章中的一个人,这个人的一个人,	134 A	V 11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10.00	For
CASH	THE PARTY OF THE PARTY.		f		1.5. 1.1. 1.4. 2.1
Primary Distribution	0	18 F 100 1			1000
Local Distribution	. 0		0		
Labour	418031,42	3 7. 1	418031.42		
Local Purchases	36338,15		36338.15		
Extra Establishment			Section 1	17 17 1	
Misc. & Unforeseen	134401.68		134401.68		1
Over head charges as per the Annexture					
Gross Cash Expenditure	588771.25		588771.25		
A STATE OF THE PROPERTY OF THE	And Annual Control of the	100	The state of the s		
Net Cash Expenditure	588771.25		588771.25	100	
			"		
STORES:(UNDER CASH PURCHASE)	12 77 A. A. T. T.			N. Y.	
Value of stores to be issued from stock	NIL		NIL CONTRACTOR		
Deduct - Value of serviceable recovered		20 Miles		1	
stores to be returned to stock at		1			
orescribed rates					
Vet stores expenditure	155096,06		155096,06		
	1				
Total .	743867.30		743857.30		
Wer Head charges for contributory works			140051.71		
Gross Total Expenditure			883919.01		
e en entre y pro-program, y como en programa el	Rounded		883919		

I consider that the quantities and rates provided are fair.

ASST. GENARAL MANAGER

ASST. GENERAL MAUNGER

Bangalara Tulicam District.

बंगजूर/Bangalore-560 001.

DEPLTY GENERAL MANAGER

Cable Planning

Bharath Sanchar Nigam Limited. Bangalore-560'001.

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Justification and Specifications.

This estimate privides for shifting PLB pipes and OF cables along Chord road and service road due to construction of Flyovers and Underpasses along Chord road for signal free comidor from Manjunathanager to 71st cross.

This is with reference to CE Project 1 letter No. CESP-1)/PR/24/12-13, dated 18.07.2012. BBMP. This is a contribution estimate. Demand note will be raised to BBMP for making necessary payment towards shifting charges as per the estimate.

Folloing pipes and cables are required for shifting OF cables

PLB Pipes--2300M 2 24F OF cable—1000M 3 96F OF cable—300M

Necessary lie diagram shoing the details of existing cable and shifting details

This estimate is prepared as per the tender rates approved for OF cable laying works by HDD method A separate estimate is prepared for shifting copper cables

Reinstatement/HDO charges payable to BBMP has been charged in this estimate as it is

not possible to shift the cable at Shivanagar Jn where excavation is done and requires different route. Separate estimate is prepared for copper cable shifting.

The difference in cable length and trench length is due to colls at joints to maintain minm distance.

Adequate provision is made for all items of stores, local purchases.

The work is of normal nature and no constructional difficulties are anticipated.

The work will be carried out by AGM Trns Mtcel SDE Trans Mtce VIJ.

ASST. GENL. MANAGER Cable PLANNING, BGTD.

Bangalore Telecom District,

बंग्लूर/Bangalora-550.0

B.ohon DEPUTY GENERAL MANAGER Cable Planning

Bharath Sanchar Nigam Limited. Bangalore-560 001,



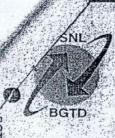
	STORES	1 2 2 2 2 2 2		T	7
DESCRIPTION	QTY	Section 2	RATE	31.1.1.1.1	Length in soft in
24 Fibre Optic cable) KM			AMOUNT.
48 Fibre optical cable		Mtr	28.56	per KM	28550.0
96 Fibre optic cable	Mind to 1 the Charles of the Control	-	65.17	per mtr	0.0
PLB pipes 40mm		Mtr.	102.47	per mtr	30741.0
LB 40mm end caps/plugs	2300		32.63	per.mir	75049.0
PLB 40mm couplers	THE PARTY OF THE P	no.	17,34	no	346.8
traight joint box	30	no.	57.35		1720.5
or 24 Fibre Optic	2 0	Hours ()	0	STATE OF THE PERSON NAMED IN	0.0
	4	INO .	808.38	perno	
Branch joint box	1000	海中的原理人	0	1	3233.5
SC24F	0	10 mm	819.72		0.00
DMS G/D/96E	YEMANA 2		2890.6		0.00
VG pipe flexible	1100	41.71	3.52		5781.20
Gtape	20	NO.		perno	352.00
Pipe 100mm dia		mtr	300	perno	137.00
TOTAL	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		300	mtr	9000.00
Add for packing (Excluding cables) 1%					154911.02
	~				185,04
STORE	GTOTAL				155096.06

III.Labour	RATE		QTY	1000	AMOUNT
1.Digging & trenching , filling back in stage	3 , 3	at the same			AMOUNT
ramining to bring to normal condition on assort	ed		or Ve	1 1 1 1	
surface and road crossings of Optic Fibre		13 K : 1		- India	
cable at 1,65mir. depth & 0,45mir.width etc	65.1	4 per mtr	20	Mtrs.	1000
2. Trenchless Boring by HDD method	7.2	1 1 7 . St. A.	13 2 2 3 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4	-	1302.8
a) PLB upto 60mm dia for 1PLB	298.	1 per mtr	-	Mtrs.	0.0
b) from 61 mm to 100 mm dia for 2-PLB	372.6	2 per mtr		Mtrs.	0.0
c) 101 to 150 mm Dia for 4PLB pipes	465.78			Mtrs.	290643,6
4. layin GI pipe up to 80mm Dia on bridges		per mtr		Mtrs.	69867.0
above 80mm dia		per mtr .	30		0.0
3. opening of manholes & mm rope pulling &		The state of the s	30		737.1
pulling OF cables & other works, Bifilling		per mtr	-	1.0	
OF cable pulling thro' duct/ HDPE pipes	Service of the servic	Perma	0	Mtrs.	.0.00
12Up to 24F	6.36	per mtr	1000		0.00
III Aboye 24F		per mtr	1000		5360.00
Digging pit for it chr. Fixing of RCC pre	1 1 1 1 1 1 1	ipel mu	300	Mtrs.	2292.00
ast chr with sand and 'O' ring dia 1.2m	1525.1	per pit		5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	March St. Commercial C
6. Digging pit and fixing of joint/route	1420.1	per pit	Ь	Nos.	9150.60
ndicator, painting and sign writing	44.86	per indica	45	N	
Documentation	320.4	per marca		Nos	672.90
Providing RCC protection at site w/o WM		per cum		km	320.4
F cable splicing works	1017.20	per cum	0.5	c.Mtrs.	658.62
plicing of 96F cable in FDMS exge rack	8017.2				0.00
plicing of 96F cable insites	8017.2	each it		nos .	0.00
4F cable jointg in routes	4998			nos	16034.40
	4990	lonun	4 1	nos	19992.00
Total Labour				-	
Total Labour	e thoughout		Anna W		4180/31.42



GTO BSNL BGTO BSNL BGT

IV. LOCAL PURCHASE (inclusive of all Taxe	s & Duties)	2.18.5		144, 15	1.0
ltem	Rate	ii.	2 Qty	+	
ly: Nylon rope 8mm	4.05	permir.	0	mtrs	0.00
h) Flexible pipe (agri hose) 2mm	A Market Commence	100	. 0	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00
thickness, 25mm dia for OFC		per mtr	100		1162.00
z-I), RCC oint protection chbr O ring	5694	each		nos	34164,00
z-ii) Route/Joint indicator.	60.81	And the same of th		пов.	912.15
Cwaste	50	kg	2	kg .	100.00
一个多数,不是我们的一个人。 第一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的	STATE OF MEN THE	建于建设产业	and the second second	1.44	
LP Total		TOTAL			36338.15
。1. 1000 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	数据学品学统	12. 15.	Fig. 55 50 1	1 .	(pro-10)
MISCELLANEOUS	Market and .				0.00
REINSTATEMENT Charges As per BMP Spec	ifications.		(N. 14. 11. 11. 11. 11. 11. 11. 11. 11. 11	V	
Asphalt concrete road A category:	450.14	sq mtr	20	mtrs :	5401.68
BBMP/charges for HDD	300	mb .	430	mbs	129000.00
Misc Total	est to build		TOTAL		134401.58
TO SECURE A RECEIVE DE LA CONTRACTION DEL CONTRACTION DE LA CONTRA		Th. 100 1	erical plant takes		
	期间,在1995 。	SUMM	ARY		A 7 1 1 10 10 10 10 10 10 10 10 10 10 10 10
The state of the s		1 + 12 m 1 m 2			
	STORES				155096,06
	Service Comments	1 1 To 1	A Comment of the same	* ***	
	CASH:	4.00	15.34		
CONTRACTOR CONTRACTOR OF THE STATE OF THE ST	经济的 的基本的			d, +1 :: ;;	
The state of the s					
1 Primary Distribution	1.00 March		0		
			0		
2. Local Distribution			AND RESIDENCE OF THE PARTY OF T		
2 Local Distribution 3. Labour			0		
2. Local Distribution 3. Labour 4. Local Purchase			0 418031.42		
2. Local Distribution 3. Labour 4. Local Purchase			0 418031.42 36338.15 134401.68		
2. Local Distribution 3. Labour 4. Local Purchase	CASH TOTAL		0 418031.42 36338.15		588771.25
1. Primary Distribution 2. Local Distribution 3. Labour 4. Local Purchase 5. Miscellaneous	CASH TOTAL		0 418031.42 36338.15 134401.68		\$588 77 1.25



BSNL BGTD BSNL BGTD

BHARATH SANCHAR NIGAM LIMITED O/O the Divisional Engineer, Cable planning, Bangalore Telecom District, Telephone house, 5th floor, Raj bhavan road, BANGALORE -560001

Caliculation of Cost particulars for Contribution Works
(Ref. Para 152, 155, 155A 455A of P&T mannual Vol.-X)

ANNEXTURE

Name of Work: Shifting of OF cable	s along C	hord road d	ue to constru	ictions	
of Flyoversand Underpasses on Ch	ord road	by BBMP			
	的 社会发生。				+
。 第一次,是一个人的人们的人们的人们的人们的人们们们们们们们们们们们们们们们们们们们们们们们	超为扩展		4. H. K. P. W. J. W.		是"不是"。 "
		1. F (2. C.			
STORES(as per Estimate)		0	155098		
		4. 4.	Market Control		
FREIGHT ON STORES (0.5%)		(ii)	775		
			4 - 1 K** 3		
Total /		Α	155872	1.5	
· Sheet Sales				100	
Establishment Charges on (A) (13%)			20263	1. 64	
Store Keeping Charges on Stores (9%)	3.00	13959		
The state of the s					
	Total	В	190093		
CASH (as per Estimate)	harman a	(iii)	588771		
				1 - 1 - 1 - 1	
ESTABLISHMENT CHARGES					
on Cash(13%)		_ (iv)	76540		
	0.000				
Total Cash Expenditure including					
depti charges (iii +iv)		C	665312		
	0.0	D '	855405		
Total Cost of the work	B+C	D	833403		
• • • • • • • • • • • • • • • • • • •	2	-1 -1			
Adhoc on B		E	28514		
15% for Contributory		E	20014		
Amount Recoverable	(D+E)	F	883919		
ATIOUTIE RECOVERABILE	(0.1)		000010		
O: THE Chief Engineer (Project-1)					
BBMP, NR Square	7				
BANGALORE 560 002.					

Karnataka Power Transmission Corporation Limited

Estimate No.: SE (E)/Tr(M)/BMAZ (N)/AEE (E)/EHV Cable/2012-13/

dated:

Provisional estimate for the work of rerouting of 66 kV single circuit XLPE insulated lead sheathed 630 sqmm Copper UG Cable with connected civil works running from 220/66 kV NRS to 66/11 kV Brigade Gateway MUSS for a distance of 150 meters for facilitating construction of flyover on WOC Road, near Manjunathnagar entrance road by BBMP under "Deposit Contribution Works".

Ref: Letter No.:CEE/TBZ/SEE(O)/AE-1/12-13/5443-46 dated 21.7.2012 of the Chief Engineeer, Electy.,
Transmission Zone, KPTCL, Bangalore enclosing therein letter No.CE(P1)/PR/24/12-13 dated 18.7.2012 of the Chief...
Engineer (Projects-1), BBMP, Bangalore.

ABSTRACT

SI. No.	Component	Amount in Rs
1	Material Cost 'PART A' (Cable, jointing kit, slabs, sand, route markers, etc.)	3,897,510.00
2	Spares @ 3% on Material cost.	
3.	Transportation charges @ 4 % on Material cost	116,925.00
4	Labour Cost 'PART B' (laying of cable, jointing, excavation, backfilling, etc.)	155,900.00 348,793.50
5	Civil Engineering 'PART C' (Joint Bays)	258,000.00
6	Work contract tax @ 14% on 70% of Civil Engineering part	
7	Service tax @ 10.3% on 30% of Civil Engineering cost	25,284.00
8	Total works Cost (Sl. No. 1 to 7)	7,972.20
9	Establishment/Administrative/Over head charges/Employees Cost @ 20% on works cost.	4,810,384.70
10	Contingencies @ 5 % on (Sl. No 8+9)	962,076.94
11	Sub total Sl. No.8 to 10	288,623.08
	IDC @ 4 % on Sl. No. 11	6,061,084.72
	Electrical Inspectorate Charges (L/S)	242,443.39
	Total Project Cost (Sl. No. 11+12+13)	50,000.00
	Otal 110/eti Cost (51. No. 11+12+13)	6,353,528.11

Say 6,353,528.00

(Rupees Sixty Three Lakh Fifty Three Thousand Five Hundred and Twentyeight only)



ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ್ರ್ Bangalore Electricity Supply Company Limited

ಕ್ಷಣನ್ : 23132292 ಫ್ಯಾಕ್ಸ್ : 23132291 ಇ-ಮೇಲ್ : <u>eenorth.work@gmail.com</u>;

ಮೊಬೈಲ್ ನಂ. 94498-44608

ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್(ವಿ) (ವಾ, ಕಾ ಮತ್ತು ಪ) ರವರ ಕಚೇರಿ ರಾಜಾಜಿನಗರ ವಿಭಾಗ, ಬೆ.ವಿ.ಕಂ., ಬೆಂಗಳೂರು – 10.

ಕ್ರಮಾಂಕ : ಕಾನಿಇಂ(ವಿ)/ರ ಲಗತ್ತು: ಒಂದು ಕಡೆತ	ಎನಿ/ಸಕಾಞಂ(ಕ)/ಕಿ.ಇಂ–1/201	1-12 90/8	ದಿನಾಂಕ : 🔾 🗗	08-1122 Z	
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	5163, 14/3, 3ನೇ ಹಂತ,	anal entradication	3 2000	E.S. 6713	
ಮಹರ್ಷಿ ಅರವಿಂದ ಬೆಂಗಳೂರು,	ಭವನ್, ನೃಪತುಂಗರಸ್ತೆ	Secretarion of George	. 4.	TEE. (E-1 MPD .	
ಮಾನ್ಕರ,				A.O.	
ವಿಷಯ : ರಾಜಾಚ	ಸಿನಗರದ ಕಾರ್ಡ್ ರಸ್ತೆಯ ಆಂ	ದ್ದು ಕೂಡ ರಸ್ತೆಯ ಭಾ	ಗದ ಅಭಿವೃದ್ಧಿ ಕಾ	ಮಾರಾರಿ ಬಗ್ಗೆ.	
2. ತಮ 3. ಈ 1	.ಎ.ಪಿ ಮುಖ್ಯ ಅಭಿಯಂತರರು(ಯೋ ಶ್ವ ಕಥೇರಿ ಪತ್ರ ಸಂಖ್ಯೆ : ಮುಞಂ(ಕಥೇರಿ ಪತ್ರ ಸಂಖ್ಯೆ : EEE(El ಶ್ವ ಕಥೇರಿ ಪತ್ರ ಸಂಖ್ಯೆ : CEE/I	ವ)ಬೆಂಮಕ್ಷೇವ/ಅ.ಇ/ಸ e)/RD/AEE(o)/A	AE-3/2011-12	7907-09	010

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂದಿಸಿದಂತೆ, ಮುಖ್ಯ ಅಭಿಯಂತರರು(ಯೋಜನೆ–1) ಬಿ.ಬಿ.ಎಂ.ಪಿ ರವರು ಉಲ್ಲೇಖ ತೃ-1 ರಲ್ಲಿ ರಾಜಾಜಿನಗರದ ಕಾರ್ಡ್ ರಸ್ತೆಯ ಆಯ್ದ ಕೂಡ ರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳ ಯೋಜನಾ ವರದಿಯನ್ನು ಸರ್ಕಾರದ ಅನುಮೋದನೆಗೆ ಸಲ್ಲಿಸಲಾಗಿದೆ ಎಂದು ತಿಳಿಸಿರುತ್ತಾರೆ. ಅದರಂತೆ ಸರ್ಕಾರವು ಸದರಿ ಯೋಜನೆಯ ಕೂಡು ರಸ್ತೆಯ ಸ್ಥಳಗಳಲ್ಲಿ ಹಾಲಿಯಿರುವ ವಿದ್ಯುತ್ ಮಾರ್ಗಗಳನ್ನು ಸ್ಥಳಾಂತರಿಸುವ ಬಗ್ಗೆ ವಿವರವಾದ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಸಲ್ಲಿಸಲು .ಬಿ.ಎಂ.ಪಿ ರವರಿಗೆ ಸೂಚಿಸಿರುವುದರಿಂದ ಸದರಿಯವರು ಬಿವಿಕಂಗೆ ವಿವರವಾದ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಸಲ್ಲಿಸಲು ಇನಿರುತ್ತಾರೆ. ಪ್ರಯುಕ್ತ ಬಿ.ಬಿ.ಎಂ.ಪಿ ರವರು ಈ ಕಛರಿಗೆ ಯೋಜನೆಗೆ ಸಂಬಂದಿಸಿದ ಜಿ.ಎ.ಡಿ ಯನ್ನು ಲಗತ್ರಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಸಲ್ಲಿಸಲು ತಿಳಿಸಿರುತ್ತಾರೆ. ಅದರಂತೆ ವಿವರವಾದ ಉದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಿ ಉಲ್ಲೇಖ 3 ರಲ್ಲಿ ಅಧೀಕ್ಷಕ ಇಂಜಿನಿಯರ್(ವಿ), ಬೆಂಗಳೂರು ಉತ್ತರ ವೃತ್ತ ರವರಿಗೆ ಸಲ್ಲಿಸಲಾಗಿತ್ತು: ನಂತರ ತಮ್ಮ ಕಛೇರಿ ಪತ್ರ ಉಲ್ಲೇಖ 4 ರಲ್ಲಿ ಸದರಿ ಎದುಜು ಪಟ್ಟಿಯನ್ನು ಹಿಂತಿರುಗಿಸಿ ರೇಟ್ ಕಾಂಟ್ರ್ಯಾಕ್ಟ್, ದರಪಟ್ಟಿ ದರದಂತೆ ತಯಾರಿಸಿ ಸಲ್ಲಿಸಲು ತಿಳಿಸಲಾಗಿದೆ. ಆದರೆ ಈ ಇದೇರಿಯಿಂದ ಸಲ್ಲಿಸಿದ್ದ ಅಂದಾಜು ಪಟ್ಟಿಯ ಮೊಬಲಗನ್ನು ಕೇವಲ ಯೋಜನಾ ವರದಿಯಲ್ಲಿ ಸೇರಿಸಿ ಸರ್ಕಾರಕ್ಕೆ ಸಲ್ಲಿಸಬೇಕಾಗಿದೆ ಎಂದು ಬಿ.ಬಿ.ಎಂ.ಪಿ ರವರು ತಿಳಿಸಿರುವ ಪ್ರಯುಕ್ತ ಹಾಲಿ ಚಾಲ್ತಿಯಲ್ಲಿರುವ (S.R.) ದರದಂತೆ ಅಂದಾಜು ಒಟ್ಟೆಯನ್ನು ತಯಾರಿಸಿ ಸಲ್ಲಿಸಲಾಗಿದೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ ರವರ ಮೂಲಗಳ ಪ್ರಕಾರ ಸದರಿ ಕಾಮಗಾರಿಗಳನ್ನು ಶೀಘ್ರದಲ್ಲಿ ತ್ರಿಕೊಳ್ಳುವ ಯಾವುದೇ ಪ್ರಸ್ತಾಪವಿರುವುದಿಲ್ಲ. ಅದ್ದರಿಂದ ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಮುಖ್ಯ ಆಯಂತರರು(ಯೋಜನೆ–1) ರವರಿಗೆ ಕಳುಹಿಸಿಕೊಡಲು ಮತ್ತೊಮ್ನ ಸಲ್ಲಿಸುತ್ತಿದ್ದೇನೆ.

P1450111-12

ಮುಖ್ಯಪ್ರಧಾನ ಪ್ರವಸ್ಥಾಪಕರು(ಬ. ಹೆಂಗ್ರತ್ಯರು ಮಹಾನಗಳ ನೀತ್ರ ಬೆಲಕಾ

13-9-15

A122

ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯಂ ವ(ವಾ, ಕಾ ಪಾ) ರಾಜಾಜಿನಗರ ವಿಭಾಗ.





BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka undertaking)

o: CEE/BMAZ/SEE (O)/AEE-4/F-165 Encl:(1) Wie

11900-02

1.No.:080-22113868 ax No.:080-22113839

ob.No:9449045888

mail ID: ceebmaz.work@gmail.com

Office of the Chief Engineer, Ele., [C,O&M], BMAZ, No. 14/3, 3rd Floor, Maharshi Aravinda Bhavan, Nrupatunga Road, Bangalore-01.

Pate: **E2** FEB 2012

ne Superintending Engineer (Ele), O&M, North Circle, ESCOM, N.T. Road ngalore-560001

Sir.

Sub:- Shifting of DTC's, HT & LT Lines of F-3, F-16, F-17, F-23, F-31 of NRS at west of Chord road as per the request of chief Engineer, BBMP for carring out the work of fly over & under pass under rate contract basis.

1. Ltr. No EEE (Ele) (PD (AEE(s)) in the contract basis.

Ref:- 1. Ltr. No EEE (Ele) /RD/AEE(o)/AE-3/2011-12/7907-09 of Executive Engineer (Ele.,) Rajajinagar Division BESCOM.

2. Ltr. No. CE (Ele),/GL/89/2011-12 dtd 24.01.2012 of chief Engineer (Ele), BBMP, Bangalore.

Inviting your attention to the above subject, Chief Engineer (Ele), BBMP vide letter cited under reference (2) has intimated to carry out Electrical utilities Shifting work under Rate Contract Basic (Copy enclosed for your ref) but the estimates furnished by Executive Engineer (Ele.,) Rajajinagar are prepared under current schedule of Rate.

Therefore, you are hereby directed to re-submit the estimates under rate contract basis which will enable T.O. to take up the work on priority basis.

Please treat the matter as "MOST URGENT."

Yours faithfully,

(Ashole Angadi) Chief Engineer Ele., (C, O&M)/BMAZ, BESCOM.

Copy to:

Executive Engineer (Ele.), (C,O&M, Rajajinagar Divisions, BMAZ, BESCOM, Bangalore to ensure and to prepare estimates under RC (along with File)

2. Asst. Executive Engineer (Ele.), (C,O&M), N-3 sub division, BESCOM, Bangalore to ensure and to prepare estimates under RC

3. AEE-4/MF/F-165.

ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರನ ಸಂಪೂರ್ಣ ಸ್ವಾಮ್ಯಕ್ಕೆ ಒಕ್ಕಪಟ್ಟರುತ್ತದೆ)

ಸ್ಟ್: ಮುಇಂ(ವಿ)/ಬೆಂಮಕ್ಷೇವ/ಅಇ/ಸ.ಕಾ.ಇ-4/ಕ-166

र्रखंड: 1 छंड.

ಮುಖ್ಯ ಇಂಜಿನಿಯರ್ (ವಿ) ರವರ ಕಥೇರಿ, (ವಾಣಿಜ್ಯ, ಕಾರ್ಯ ಮತ್ತು ಪಾಲನ) ಬೆಂಗಳೂರು ಮಹಾನಗರ ಕ್ಷೇತ ವಲಯ, ನಂ. 14/3, 3ನೇ ಮಹಡಿ, ಮಹರ್ಷಿ ಅರವಿಂದ ಭವನ, ಬೆಂಗಳೂರು - 560 001. 11 3 DEC 2010

ತಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ). ಉತರ ವಿಭಾಗ, ಬೆ.ವಿ.ಕಂ, ಬೆಂಗಳೂರು.

ಮಾನ್ಯರೇ,

ರಾಜಾಜಿನಗರದ ಕಾರ್ಡ್ ರಸ್ತೆಯ ಆಯ್ದ ಕೂಡು ರಸ್ತೆಯ ಭಾಗದ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿ ಬಗ್ಗೆ. —

ಉಲ್ಲೇಖ: 1, ಪತ್ರ ಸಂ: ಮು.ಅ(ಯೋ-1)/ಪಿಆರ್/454/2010-11 ದಿನಾಂಕ: 30.11.2010. 2.ಸರ್ಕಾರಿ ಪತ್ರ ಸಂಖ್ಯೆ UDD/493/MNY/2010 ದಿನಾಂಕ: 16.11.2010.

ಈ ಕಛೇರಿಗೆ ಉಲ್ಲೇಖ (1) ರ ಅನ್ವಯ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್(ಯೋಜನೆ), ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಬೆಂಗಳೂರು ರವರಿಂದ ಪತ ಸ್ವೀಕೃತಗೊಂಡಿದ್ದು ಪತ್ರದ ಅನ್ವಯ ರಾಜಾಜಿನಗರದ ಕಾರ್ಡ್. ರಸ್ತೆಯ ಆಯ್ದ ಕೂಡು ರಸ್ತೆಯ ಭಾಗದ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳ ಯೋಜನಾ ವರದಿಯನ್ನು ಸರ್ಕಾರದ ಅನುಮೋದನೆಗೆ ಸಲ್ಲಿಸಲಾಗಿತ್ತು.

ಉಲ್ಲೇಖ ಪತದಲ್ಲಿ ಸರ್ಕಾರವು, ಸದರಿ ಯೋಜನೆಯ ಕೂಡು ರಸ್ತೆಯ ಸ್ಥಳಗಳಲ್ಲಿ ಹಾಲಿ ಇರುವ ವಿದ್ಯುತ್ ಮಾರ್ಗ ಸ್ಥಳಾಂತರಿಸುವ ಬಗ್ಗೆ ವಿವರವಾದ ಅಂದಾಜುಪಟ್ಟಿಯನ್ನು ಸಲ್ಲಿಸಲು ಕೋರಿರುತ್ತಾರೆ.

ಈ ವಿವರಗಳನ್ನು ತುರ್ತಾಗಿ ಸಲ್ಲಿಸಬೇಕಾಗಿರುವುದರಿಂದ ಕೂಡಲೇ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್(ಯೋಜನೆ), ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು ರವರ ಕಛೇರಿಗೆ ಅಂದಾಜುಪಟ್ಟಿಯನ್ನು ಕಳುಹಿಸಿಕೊಡಲು ಕೋರಿದೆ. ಈ ಪತದೊಂದಿಗೆ ಯೋಜನೆಗೆ ಸಂಬಂಧಿಸಿದ ಜಿ.ಎ.ಡಿಯನ್ನು ಲಗತ್ತಿಸಿದೆ. ವಿವರಗಳನ್ನು ತುರ್ತಾಗಿ ಘನ ಸರ್ಕಾರಕ್ಕೆ ಸಲ್ಲಿಸಬೇಕಾಗಿರುವುದರಿಂದ ಈ ಬಗ್ಗೆ ತುರ್ತು ಕಮ ವಹಿಸಲು ಕೋರಿದೆ.

ತಮ್ಮ ವಿಶ್ವಾಸಿ.

ಮುಖ್ಯ ಇಂಡನಿಯರ್ (ವಿ), ಬೆಂಗಳೂರು ಘುಹಾನಗರ ಕ್ಷೇತವಲಯ. ಬೆ.ವಿ.ಕಥ/, ಬೆಂಗ್ರಳೂರು.

Produces produces

ಬೃಹತ್ •ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಕೆ

ಸಂ: ಮು.ಅ(ಯೋ-1)/ಪಿಆರ್/ 1/51/2010-11

ಮುಖ್ಯ ಅಭಯಂತರರು (ಯೋಜನೆ–1) ರವರ ಕಛೇರಿ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಕೆ ಎನ್.ಆರ್.ಚೌಕ, ಬೆಂಗಳೂರು. ದಿನಾಂಕ: 30–11–2010.

ೆ, ಮುಖ್ಯ ಅಭಿಯಂತರರು (ವಿದ್ಯುತ್), (ಸಿ.ಪಿ ೩ ಎಂ), ಅ.ಎಂ.ಎ.ಜಡ್ ನಂ 14/3, 3ನೇ ಹಂತ, ಮಹರ್ಷ ಅರವಿಂದ ಭವನ, ನೃವತುಂಗ ರಸ್ತೆ.

ಮಾನ್ಯರೇ,

ಬೆಂಗಳೂರು.

ವಿಷಯ: ಠಾಜಾಜನಗರದ ಕಾರ್ಡ್ ರಸ್ತೆಯ ಆಯ್ದ ಕೂಡು ರಸ್ತೆಯ ಭಾಗದ ಅಭವೃದ್ಧಿ ಕಾಮಗಾರಿ ಬಗ್ಗೆ

ಉಲ್ಲೇಖ: ಸರ್ಕಾರಿ ಪತ್ರ ಸಂಖ್ಯೆ UDD/493/MNY/2010 Dt: 16-11-2010.

ರಾಜಾಜನಗರದ ಕಾರ್ಡ್ ರಸ್ತೆಯ ಅಯ್ದ ಕೂಡು ರಸ್ತೆಗಳ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳ ಯೋಜನಾ ವರಬಯನ್ನು ಸರ್ಕಾರದ ಅನುಮೋದನೆಗೆ ಸಲ್ಲಸಲಾಗಿತ್ತು.

ಉಲ್ಲೇಖ ಪತ್ರದಲ್ಲ ಸರ್ಕಾರವು. ಸದರಿ ಯೋಜನೆಯ ಕೂಡು ರಸ್ತೆಯ ಸ್ಥಳಗಳಲ್ಲ ಹಾಅ ಇರುವ ವಿದ್ಯುತ್ ಮಾರ್ಗ ಸ್ಥಳಾಂತರಿಸುವ ಬಗ್ಗೆ ವಿವರವಾದ ಅಂದಾಜ್ಪುಪ್ಪಟ್ಟಿಯನ್ನು ಸಲ್ಲಸಲು ಕೋರಿರುತ್ತಾರೆ.

ಈ ವಿವರಗಳನ್ನು ಶುರ್ತಾಗಿ ಸಲ್ಲಸಬೇಕಾಗಿರುವುದರಿಂದ ಕೂಡಲೇ ಸದರಿ ಕಛೇರಿಗೆ ಅಂದಾಜುಪಟ್ಟಿಯನ್ನು ಕಳುಹಿಸಿಕೊಡಲು ಕೋರಿದೆ. ಈ ಪತ್ರದೊಂದಿಗೆ ಯೋಜನೆಗೆ ಸಂಬಂಧಿಸಿದ ಜಿ.ಎ.ಡಿಯನ್ನು ಲಗತ್ತಿಸಿದೆ. ವಿವರಗಳನ್ನು ತುರ್ತಾಗಿ ಫನ ಸರ್ಕಾರಕ್ಕೆ ಸಲ್ಲಸಬೇಕಾಗಿರುವುದರಿಂದ ಈ ಬಗ್ಗೆ ತುರ್ತು ಕ್ರಮ ವಹಿಸಲು ಕೊಲದಿ.

Date:

Da

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned Government of Karnataka undertaking)

CEE/BMAZ/SEE (O)/AEE-4/F-165 Encl:

11.900-02

Office of the Chief Engineer, Ele., [C,O&M], BMAZ, No. 14/3, 3rd Floor,

2 FEB 2012

Ph.No.:080-22113868 Fax No.:080-22113839

Maharshi Aravinda Bhavan, Nrupatunga Road, Bangalore-01. Date:

Mob.No:9449045888

Email ID: ceebmaz.work@gmail.com

The Superintending Engineer (Ele),

C,O&M, North Circle, BESCOM, N.T. Road

Bangalore-560001

Sir,

Sub:-

Shifting of DTC's, HT & LT Lines of F-3, F-16, F-17, F-23, F-31 of NRS at west of Chord road as per the request of chief Engineer, BBMP for carring out the work of fly over & under pass under rate contract basis.

1. Ltr. No EEE (Ele) /RD/AEE(o)/AE-3/2011-12/7907-09 of Executive Engineer (Ele.,) Rajajinagar Division BESCOM. 3

2. Ltr. No. CE (Ele),/GL/89/2011-12 dtd 24.01.2012 of chief Engineer (Ele), BBMP, Bangalore.

Inviting your attention to the above subject, Chief Engineer (Ele), BBMP vide letter cited under reference (2) has intimated to carry out Electrical utilities Shifting work under Rate Contract Basic (Copy enclosed for your ref) but the estimates furnished by Executive Engineer (Ele.,) Rajajinagar are prepared under current schedule of Rate.

Therefore, you are hereby directed to re-submit the estimates under rate contract basis which will enable T.O. to take up'the work on priority basis.

Please treat the matter as "MOST URGENT."

Morray Can

Yours faithfully,

(Ashok Angadi) Chief Engineer Ele., (C, O&M)/BMAZ, BESCOM.

Y. Executive Engineer (Ele.), (C,O&M, Rajajinagar Divisions, BMAZ, BESCOM, Bangalore to ensure and to prepare estimates under RC.

2. Asst. Executive Engineer (Ele.), (C,O&M), N-3 sub division, BESCOM, Bangalore to ensure and to prepare estimates under RC

3. AEE-4/MF/F-165.

ny'

(ca)

BANGALORE ELECTRICITY SUPPLY COMPANY

ESTIMATE No. AE-9/ BV.J- 122 / dt-23.12.2011

Estimate For Shifting of DTC's, DPS's, HT & LT Lines F-3, F-16, F-17, F-23, F-31 NRS at WCR as per Request of Chief Engineer B.B.M.P For Carrying the Fly over and Under pass Work in O&M-9 N3 Sub-division. Under Self Execution Works.

	Temparary Shifting I	Materials F	Required	F-3. F	ART-A	
Sl.no	Particulars	Code	Unit	Qty	Rate	Amoun
1	9 mts RCC Poles	200105	Nos	26	4755	123630
2	Spun Pole 11Mts Long	200120	Nos	5	13250	66250
3	Coyote Wire	284116.	mts	400	82.791	33116.4
4	Special 3Pin xarm	279013	Nos	40	580	23200
5	Brace for Special 3Pin Xarm	279083	Nos	40	174	6960
6	Rabbit Wire	284108	mts	200	23.9	4780
7	45 KN Disc Insulator	283040	Nos	15	313.5	4702.5
8	11 mts Spun Pole Structure Kit	279128	SET	5	20800	104000
9	2 Pole TC Set	279120	SET	7	8087	56609
10	Earthing Materials	281674 600095 607054	Nos	31	1010	31310
11	95Sqmm Copper Terminals	288531	Nos	200	150	30000
12 .	240Sqmm Copper Terminals	288536	Nos	70	546	38220
13	185 Sqmm Copper Terminals	288534	Nos ·	· 15	225 ·	3375
14	11 KV Pin Insulator With G.I Pins	283005, 283055	Nos	50	71	3550
5	P.G Clamps (coyote-coyote)	285515	Nos	30	228	6840
6	P.G Clamps (coyote-Rabbit)	r 285518	Nos	36	251	9036
7	G.I Wire 8 S.W.G	281008	KG	100	57.35	5735
8	Guy Wire 7/10	281110	KG	120	57.9	6355
9	Bolts & Nuts	733618	KG	100	55.71	5571

11	Fixing of 3 pole Structure kit (4439x7)			7	4439	31073
12	Releasing & Refixing HG Fuse unit (1.9x168x10)			10	168	3192
13	Releasing & Refixing DTC Metering Box (1.9x812x7)	•		7	812	10800
14	Releasing & Refixing of H Frame for GOS (1.9x136x34)			34	136	8/86
15	Releasing & Refixing of Distribution Box (1.9x322x7)			7.	322	4283
16	Cable trench Exvation (600x0,7x102)			102	32	4284
17	Laying of Cable in trench (1x26.751x700)				26.751	18725
18:	Refilling and Consolidation (550x1x32x0.7)				550	12320
19:	Making of Straight through Jointing kit (1260x9)			g 1/8.	260	11340
20 .	Making of Pot head outdoor (1120x25)			25	1120	28000
21	Covering the Cable with tiles (1x1843x0.7)				1843	1290
22	Spreading Sand forming with round the cable (6475x0.7)	•			6475	4533
23	Laying of GI pipe (100x32)				32	3200
24	Laying of Route Indicating Stone (20x0.7x48)				40	672
25	Releasing Double pole set (2303x0.9x2)			2	2303	4606
26	Involving Excavation of soil(26.751x785)	*				21,000
27	Laying of 3x400 Sqmm XLPE U.G Cable Involving Excavation of soil(28.158*670)					: 18866
.8	Misc Labour					1015
	Total		Aggs II			246050

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	Alkathine tube	821900	COIL	12	480	5760
20	0.55 (S. O.)		0012	5	9477	47385
21	Concreting Materials 11 mts Spun Pole	287340	mts	20	596	11920
22	11 KV 3X95 Sqmm XLPE U.G Cable 11 KV 3X95 Sqmm Straight Through	24/0/0	Nos	2	4115	8230
23	Jointing Kit ALPE	'n		2	2212	4424
24	11 KV 3X95 Sqmm Pot Head Out Door XLPE		Nos	-		1,011
25	Misc Maerials					641,970
	· T	OTal		П		
	LABOUR CHARGES			-		Amount
5ì.no	Particulars	Code	Unit	Qty	Rate	
1	Releasing 9 mts RCC Poles			20	483	8,694
	(483x0.9x20) Releasing 8 mts PCC Poles			10	483	4,347
2 .	. (483x0.9x10)			6.	483	2,608
3	Releasing 8 mts RCC Poles (483x0.9x6)			3	861	2,325
4	Releasing 11 mts Spun Poles (861x0.9x3)			+	71.4	2313
5	Releasing Horizontal Xarm (71.4x0.9x36)			36		- H
6	Releasing & Refixing 4Pin Xarm (71.4x1.9x23)			23	71.4	31,20
	Releasing & Refixing 2Pin Xarm		1	9	71.4	1221
7	(71.4x1.9x9) Releasing Coyote Conductor			1710	3.225	4963
8	(3.225x0.9x1710)			433	1.846	719
9	Releasing Rabbit Conductor (1.846x0.9x433)			455		
10	Errection of 9 mts RCC Poles(483x26))		26	483	12558
	Errection of 11 mts Spun Poles (861x			5	861	4305
11	Restringing of Coyote Wire			2050	3.225	6611
12	(3.225x2050)	+.	· ·	400	1.846	738
13	Restringing of Rabbit Wire (1.846x40	0)_		400	1.040	

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		1	то	TAL		145,860
33	Misc Labour					1013
32	Making of Pot Head			2	1120	2240
31	Making of Straight Through 3x95 Sqmm Jointing Kit			2	1260	2520
30	: Laying of 11 KV 3x95 sqmm XLPE (25.343x20)					507
29	Digging of pit for 11mts Spun Pole (805x3)			3	805	2415
28	Digging of pit for 9mts RCC Pole (267x26)			26	· 267	6942
27	Fixing Of Brace for Special 3Pin xarm (71.4x31)			31	71.4	2213
	Fixing of Special 3Pin xarm (71.4x31)			31	71.4	2213
25	Releasing & Refixing of Distribution Box (1.9x322x7)			7	322	4283
24	Releasing & Refixing of Lighting Arrester(1.9x50.4x8)			8	50.4	766
23	Releasing & Refixing of DTC Metering Box (1.9x812x7)			7	812	10800
22	Releasing & Refixing of H-Frame for GOS (1.9x136x11)			11	136	2842
21	Releasing & Refixing of HG Fuse Unit (1.9x168x7)		*	7	168	2,234
20	Releasing & Refixing of 400Amps GOS (1.9x311x3)			3	311	1265
19	Releasing & Refixing of 200Amps GOS (1.9x311x8)			8	311	4,727
18	Providing of Earthing (406x31)			31	406	12,586
17	Releasing & Refixing Double Pole T.C Structure Kit (2303x5)	<u> </u>		5	2303	11515
16	Fixing of Spun Pole Structure Kit (1439x5)			5	1439	7195
15	Releasing Spun Pole Structure Kit (1439x3x0.9)			3	1439	3,885
14	Releasing & Re Errection of 250KVA DTC (966x1.9x5)			5	966	9177

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	Permanent Shifting Mater	ials require	d F-3 NR	S, PAR	т-в	
Sl.no	Particulars	Code	Unit	Qty	Rate	Amount
1	11mts spun pole	200120	Nos	3	13250	39,750
2	spun pole structure kit	279128	Nos	3	20800	62,400
3	400 Amps D/B GOS	304224	Nos	25	14256	356,400
4	45 KN DISC Insulator	283040	Nos	42	313.5	13,167
5	3x400sq mm 11 KV UG CablexLPE	287350	Mts	. 670	1318.6	883,462
6	3x400sq mm·11KV Straight through Jointing kit	288329	Kit	4	5672	22,688
7	3x240sq mm 11KV UG CableXLPE	287345	Mts	785	862.4	676,984
8	3x240sq mm 11KV Straight through Jointing kit XLPE	288324	Nos	54	4695	23,475
9	3x240sq mm 11KV Outdoor pot Head XLPE	288304	Nos	20	. 2742	54,840
-10	3x240sq mm-11KV Outdoor termination kit	288305	Mts	5	2763	13,815
11	3Pole Structure kit for XLPE Cable		Nos	7	12900	90,300
12	GI pipe 150mm dig for dram, crossing cable, raising Etc.	768058	Nos	100	948	94,800
13	Earthing Materials	281674, 600095, 607054	Nos	30	1010	30,300
14	95sq mm Copper terminals	288,531	Nos	220	150	33,000
15	240sqmm Copper terminals	288536	Nos	96	546	52,416
16	185sqmm Copper terminals	288534	Nos	99	225	22,275
17	PG Clamps Coyote to Coyote	285515	Nos	75	228	17,100
18	PG Clamps Rabbit to 240sqmm Insulated lead wire	285565	Nos	50	282	14,100
19	Concreting materials for 11 mts spunpole .		Nos	3	9457	28,371
20	PG Clamps Rabbit&Rabbit	285508	Nos	50	73	3,650
21	GI wire 8SWG	281008	Kgs	100	57.35	5,735

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22	Guy Wire 7/10	281110	Kgs	130	57.9	7,527			
23	Bolts&Nuts	733618	Kgs	150	55.71	8,357			
24	Alka thine tube	821900	COIL	. 12	480	5,760			
25	3x95 sqmm 11 KV UG Cable XLPE		mts	0.03	476713	14,301			
26	3x95 sqmm 11 KV jointing kit straight Through XLPE	288322	Nos	2	4115	8,230			
27	3x95 sqmm Pot head out Door XLPE	288302	Nos	. 2 .	2212	4,424			
28	Cable Covering tails	801035	mts	400x7	8	22,400			
29	. River Sand	800650	cmt	42	1040	43,680			
30	Rout & jointing Indicating Stone	802460	Nos	15	115	1,725			
31	: Misc Maerials	\$ 1				5,009			
		тот	AL .			2,660,441			
	Labour Charges for Permanent Shifting F-3 NRS								
Sl.no	Particulars	Code >	Unit	Qty	Rate	Labour Cos			
2	Releasing Coyote Wire (0.9x3.225x1916)			1916	3.225	5561			
3	Erection of Rabbit Wire (1.846x600)			600	1.846	1,108			
4	Releasing & ReErection of 250KVA DTC (1.9x966x5)			5	966	9,177			
	Releasing & ReErection of 250KVA DTC (1.9x644x1)			1	644	1,224			
5	Erection of spun pole 11mts (861x3)			3	861	2,583			
6	Digging of pit for 11mts spun pole (805x3)			3	805	- 2415			
7	Providing of Earthing (406x30)			30	406	12180			
8	Fixing of 11mts spun pole Structure kit (1439x3)			3	1439	4,317			
	Releasing & Refixing 200Amps-GOS (311x1.9x8)			8	311	4,727			
9	(21111.270)								

	Temparary Shifting Ma	1				
Sl.no	Particulars	Code	Unit	Qty	Rate	Amoun
1	9 mts RCC Poles	200105	Nos	23	4755	109365
2	Spun Pole 11Mts Long	200120	Nos	5 .	13250	66250
3	Special 3Pin xarm	279013	Nos	24	580	13920
4	Brace for Special 3Pin Xarm	279083	Nos	14	174	2436
5	Rabbit Wire	284108	Mts ·	300	23.9	• 7170
6	"45 KN Disc Insulator	283040	Nos	39	313.5	12226.5
7	11 mts Spun Pole Structure Kit	279128	Nos	5	20800	104000
8	2 Pole TC Set	279120	Set	3.	12900	38700
9	Earthing Materials	281674 . 600095 . 607054	Nos	20	1010	20200
10	95 Sqmm Copper Terminals	288531	Nos	70	150	10500
11	240 Sqmm Copper Terminals	288536	Nos	50	546	27300
12	185 Sqmm Copper Terminals	288534	Nos	15	. 225	3375
13	11 KV Pin Insulator With G.I Pins	283005, 283055	Nos	60	71	4260
14	P.G Clamps (coyote-coyote)	285515	Nos	56	228	12768
15	P.G Clamps (coyote-Rabbit)	285518	Nos	21	251	5271
16	G.I Wire 8 S.W.G	281008	Kgs	70	57.35	4014.5
17	Guy Wire 7/10	281110	Kgs	100	57.9	5296
18	Bolts & Nuts	733618	Kgs	125	55.71	6964
19	Alkathine tube	821900	Coil	8	480	3840
20	Concreting Materials 11 mts Spun Pole		Nos	5	9477	47385
21	11 Kv 3x400 Sqmm U.G Cable	287350	Mts	0.020	959000	19180
22	Straight Through Jointing Kit 3x400Sqmm XLPE	288305.	Nos	2	5672	11344
23	Pot Head 3x400 Sqmm XLPE	288305	Nos	1	2763	2763
24	400 Sqmm Double Break GOS	304224	Nos	1	14256	14256
25	G.I Pipe 100 mm Dia		Mts	10	948	9480
26	Route and Joint Indicating Stone		Nos	3	115	345
27	Misc Materials					1521
			Tota	ıl		564130

3	400 Amps D/B GOS	304224	Nos	14	14256	199,584
4	45 KN DISC Insulator	283040	Nos	36	323.5	11,646
5	3x400sq mm 11 KV UG CablexLPE	287350	Mts	656	1648	1,081,088
6	3x400sq mm 11KV Straight through - Jointing kit	288329	Kit	4	5672	22,688
7	Rabbit Wire	284108	. Mts	400	23.9	9,560
8	3x240sq mm-11KV Outdoor termination kit	288305	Nos	14	2763	38,682
9	3Pole Structure kit for XLPE Cable		Nos	4	19633	78,532
10	GI pipe 150mm dig for dram,crossing cable,raising Etc	. 768058	Mts	100	948	94,800
1,1	Earthing Materials	281674, , 600095, 607054	Nos :	. 20	1010	20,200
12	95sq mm Copper terminals	288,531	Nos :	. 66	150	9,900
13	240sqmm Copper terminals	288536	Nós	. 50	. 546	27,300
14	185sqmm Copper terminals	288534	Nos	80	225	18,000
15	PG Clamps Coyote to Coyote	285515	Nos	20	228	4,560
16	PG Clamps Rabbit to 240sqmm Insulator	285565	Nos	50	282	14,100
17	PG Clamps (Rabbit & Rabbit)	285508	Nos	20	73	1,460
18	GI wire 8SWG	281008	Kgs	80	57.35	4,588
19	Guy Wire 7/10	281110	Kgs	100	57.9	5,790
20	Bolts&Nuts	733618	Kgs	100	55.71	5,571
21	3x95 Sqmm XLPE U.G Cable		Mts	0.015	596.2	9
22	3x95 sqmm jointing kit XLPE straight through	288322	Nos	1	4115	4,115
23	3x95 Sqmm pot Head XLPE out Door	288302	Nos	1	2212	2,212
24	Alka thine tube	821900	coil	8	480	3,840
25	Cable Covering tails	801035		480	. 8	3,840
26	River Sand (1040 cmt x 0.550x60)	800650	cmt	550	60	34320

27	Rout & jointing Indicating Stone(0.550Mtsx20x115)	802460				1265
28	Concreting Materials 11 mts Spun Pole		Nos	3	9477	28,431
29	Misc Maerials		W. S.			1,009
			Tot	al		1,829,240
	Labour for Permanent Shifting	F-23 NRS				
Sl.no	Particulars	Code	Unit	Qty	Rate	Labour Cost
1	Releasing for 2pinxarm (0.9x71.4x20)			20	71.4	1,285
2	Releasing Coyote Wire (0.9x3.225x1063)			1063	3.225	3085
3	Erection of Rabbit Wire (1.846x700)			700	1.846	1,292
4	Releasing & ReErection of 250KVA DTC . (1.9x966x4)	•	:	. 4	966	7,342
	Releasing & ReErection of 100KVA DTC (1.9x581x1)		:	. 1	581	1,104
5	Erection of spun pole 11mts (861x3)			. 3	861	2,583
6	Digging of pit for 11mts spun pole (805x3)			3	805	2415
7	Providing of Earthing (406x20)			20	406	8120
8	Fixing of 11mts spun pole Structure kit (1439x3)			3	1439	4,317
9	Releasing & Refixing 200Amps-GOS (311x1.9x6)			6	311	3,545
10	Fixing of 400Amps D/B-GOS (311x14)			14	311	4354
11	Fixing of 3 pole Structure kit (4439x4)			4	4439	17756
12	Releasing & Refixing HG Fuse unit (1.9x168x6)			6	168	1915
13	Releasing & Refixing DTC Metering Box (1.9x812x5)			5	812	7714
14	Releasing & Refixing of H Frame for GOS (1.9x136x9)			9	136	2326
15	Releasing & Refixing of Distribution Box . : (1.9x322x5)			5	322	3059

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		Tot	tal			164,420
26	. Misc Labour .					1,048
25	Releasing Double pole set (2303x0.9x5)			5	2303	10364
24	Laying of Route Indicating Stone (20x48x0.550)	,		20	40	528
23	Laying of GI pipe (100x100)			100	100	10000
22	Spreading Sand forming with round the cable (6475x0.550)				6475	3561
21	Covering the Cable with tiles (1x1843x0.550)			1843	1843	1014
20	Making of Pot head outdoor (1120x14)	,		14 .	1120	15680
19	Making of Straight through Jointing kit (1260x4)		4	4	1260	5040
18	Refilling and Consolidation (550x1x32x0.550 mts)				550	9680
17	Laying of Cable in trench (1x28158x0.058 mts)					1633
16	Cable trench Exvation (600x102x0.550 mts)			102	32	33660

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Temparary Shifting Materials Required F-17. PART-A SI. **Particulars** Code no Unit Qty Rate Amount 1 9mts RCC Poles 200105 No 15 4755 71325 2 Spun pole 11 mts. Long 209120 No 4 13250 53,000 3 Coyote Conductor 284116 Mts. 400 82.791 33,116 5 Brace for 11 KV Special 3Pin Xarm 2790832 Nos 25 174 4350 6 **RABBIT Conductor** 284108 Mts. 300 23.9 7170 7 45 KN disc Insulator 283040 Nos 313.5 12 3762 11mts Spun Pole Structure Kit 279128 Nos 4 20800 83,200 9 Double Pole TC Set 279120 ·Nos 1 12,900 12900 281674-490 10 Earthing materials 600095-300 Nos. 10 1010 10100 607054 11 95 sqmm Copper Trrminals 288531 Nos 50 150 . 7500 12 240Sqmm Copper Terminals -288536 Nos 16 546 8,736 13 185sqmm Copper Terminals 288534 Nos 39 225 8775 14 11 KV Pin insulators 283,005 Nos 30 71 2130 15 P.G Clamp (coyote-coyote) 285515 Nos 25 251 6275 16 P.G Clamp (coyote-rabbit) 285518 Nos 15 251 3765 17 G.I Wire 8 SWG Kgs. 25 57.55 1438.75 18 **Bolt & Nuts** 733612 Kgs. 50 55.79 2789.5 19 Guy wire 7/10 swg Kgs. 50 57.96 2898 20 AIKATHENE TUBE 821900 Coils 4 480 1920 Concreting materials for 11 mts . 21 spunpole a) Base concreting Nos 4 1:4:8,1000x1000x2500m 437 1748 b) pole concreting 1:2:4 Nos 1000x1000x2500mm 4 8500 34000 c) Copying 1:2:4 as per actuals No. 4 520 2080 22 Misc. materials L/S 10,011 Total 372,990

T	Releasing & Re	fixing Labo	our F-17			
SI.	Particulars	Code	Unit	Qty	Rate	Labour Cost
1	Releasing 9 mts.RCC Pole.(13x0.9x483).		: No	13	483	5,651
2	Releasing 8Mts PCC pole (8x0.9x483)		No	8	483	3,478
3	Releasing 8 mts.RCC Pole (5x0.9x483).	-ds	No	5 .	483	2,174
4	Releasing 11 mts Spun Pole (2x0.9x861)		No	2	861	1,550
5	Releasing HT top support (13x0.9x49).	•	No.	13	49	573
6.	Releasing Horizontal		No.	13	71.4	835
7	xarmy.(13x0.9x71.4). Releasing Refixing of 4 pin x		Nos.	15	71.4	964
8	arms(71.4x0.9x15) Releasing Refixing of 2 pin x		Nos.	13	71.4	835
9	arms(71.4x0.9x13) Releasing Coyet wire .(3.2256x791x0.9)	•	Mts.	791	3.225	2296
10	Releasing Rabbit wire.(1.846x500x0.9)		Mts.	500	1.846	831
11	Errection of 9mts RCC Pole(15x483)		Nos	15	483	7245
12	Errection of 11mts Spun Pole		Nos	4	861	3444
13	Restringing of Coyote Wire (1137x3.225)		Mts.	1137	3.225	3667
14	1500 A BAS)		Mts.	500	1.846	923
15	Releasing ReErrection of 250 KVA DTC		Nos.	2	966	3,671
16	(2x966x1.9) Releasing Spun pole structure kit		Nos.	. 1	1439	. 1295
17	(1x0.9x1439) Fixing of Spun pole Structure kit		Nos.	4	1439	5756
18	Releasing & Refixing of Double pole TC		Set	2	. 2304	8,755
19	Set (2304x1.5x2)		Set	1	2304	2,304
20	(10, 405)		Nos	10	406	2900

21	Releasing & Refixing of 200.Amps GOS		Set	2	311	1,182
	(311x1.9x2)		-			
22	Releasing & Refixing of HG Fuse unit(2x168x1.9)		Set	2	168	638
23	Releasing & Refixing of DTC Metering Box (1.9x812x2)		Nos	2	812	3086
24	Releasing & Refixing Distribution Box(322x2x1.9)	-	Nos.	2	322	1,224
25	Releasing & Refixing Lighting arrester (1.9x42x6)		Nos.	6	42	479
26	Fixing of Special 3pin Xarms		Nos.	25	71.4	1785
27	Fixing of Brace to Special 3pin Xarms	:	Nos.	25	71.4	1785
28	Releasing & Refixing of H Frame for GOS (1.9x136x2)	•	Nos.	2	136	517
29	Digging of pit for 9mts RCC pole		· Nos.	15	267	. 4005
30	Digging of pit for spun pole		Nos.	4	805	3220
31	Misc. labour	•	L/S		1.00	3,002
31	. Milot 1000		To	otal		80,070
	Permanent Shifting	ng F-17 NRS,	PART-	В		
SI.	Particulars	Code	Unit	Qty	Rate	Amount
1	Spun pole 11 mts. Long	209120	No	2	13250	26,500
2	11mts Spun Pole Structure Kit	279128	Nos	2	20800	41,600
3	400 Amps D/B GOS	304224	Nos	11	14256	156,816
4	45 KN disc Insulator	283040	Nos	28	313.5	8778
5	3x400sqmm 11KV UG Cable XLPE	287350	Mts.	450	1648.35	741757.5
6	3x40Osqmm 11KV Strraight through JointingKit	288329	Nos	3	5672	17016
7	3x400sqmm 11KV Out Door Pot head XLPE	288336	Nos	5	. 2763	13,815
8	3x240 sqmm 11 KV out door pot head XLPE	288302	Nos	8	2212	17,696
9	3x240sqmm 11KV UG Cable XLPE	287345	Mts.	460	1078	495,880
10	3x240sqmmi 11KV Straight ThroughJointing Kit XLPE	288324	Nos	4	4695	18,780
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12	7/10 Guy Wire		Kgs.	100	57.9	5,790
13	95 sqmm Copper Triminals	288531	Nos	50	150	7500
14	240Sqmm Copper Terminals	288536	Nos	16	. 546	8,736
15	185sqmm Copper Terminals	288534	Nos	39	225	8775
16	11 KV Pin insulators	283,005	Nos	30	71	2130
17	P.G Clamp (coyote-coyote)	.285515	Nos	39	228	8892
18	P.G Clamp (coyote-rabbit)	285518	Nos	12	251	3012
19	Cable Covering Tails (250x250x40)	801.035	Nos	1000	8	8000
20	Sand (68x0.8=48)	800650		48	1040	49920
21	Rout & Jointing Indicating stone	802460	Nos	115	10	1150
22	G.I Pipe 150mm dia for drain, Crossing Cable raising etc	768058		104	948	98592
23	· 3 Pole Structure kit	279015	set	2	5110	10220
24	AIKATHENETUBE	821900	Coils	3	480	1440
25	Concreting materials for 11 mts spunpole					
	a) Base concreting 1:4:8,1000x1000x2500m		Nos	2	437	874
	b) pole concreting 1:2:4 1000x1000x2500mm		Nos	2	8500	17000
	c) Copying 1:2:4 as per actuals		Nos.	2	520	1040
6	Misc. materials			L/S		10,009
				T	otal	1,785,160
1	Permanent Sh	ifting F-17 NF	RS Lab	our Char	rges	
1.	Particulars	Code	Unit	Qty	Rate	Labour Cost
	Releasing for 2Pin Xarm (0.9x71.4x19)		No	19	71.4	1,221
	Releasing Coyet wire .(3.2256x1137x0.9)		Mts.	1137	3.2256	3301
	Releasing ReErrection of 250 KVA DTC (2x966x1.9)		Nos.	2	966	3,671
F	Releasing & Refixing of Double pole TC Set (1645x1.9x2)		Set	2	2303	8,751
	Providing of Earthing		Nos	12	406	4,872
1	Errection of 11mts Spun Pole		Nos	2	861	1722
1	Diggi ng of Pit Spun Pole		Nos	2	805	1610

	Total					181,617
8	Providing of Earthing (10x290) MIsc. Labour		Nos	10	406	1004
7	Refixing double pole TC set (1x1645)	•	Set	2	2303	4,606
5	Laying of Route & Jointing Indication stone (10x48)			10	67	670
4	Laying of G.I pipe			104	8	832
23	spreading sand forming with sand round the cable(6475x0.8)			0.8	6475	5180
22	Covering the cable with tiles(0.8x1843)			0.8	1843	1474
21	Making of termination kit 3x240 Sqmm XLPE	•		8	1120	8960
20	Making of straight through jointing kit 3x240 Sqmm XLPE			4	1260	5040
19	Making of straight through jointing kit 3x400Sqmm XLPE	•		3	1260	3780
18	Making of Termination kit 3x400 Sqmm XLPE Out Door		Nos	5	1120	5600
17	Refilling and Consolidation(550x0.8x32)			** **		14080
16	Laying of Cable in trench (0.8x26751)					~ 21401
15	Cable trench Excavation (600x0.8)			480	143	68640
14	Releasing & Refixing of L.T.D . Box(1.9x322x2)		Nos	2	322	1224
13	Releasing & Refixing of H Frame for GOS (1.9x136x6)		Nos.	6	136	1551
12	Releasing & Refixing Lighting arrester(1.9x51x6)	-	Nos	6	51	582
11	Releasing & Refixing of DTC Metering Box (1.9x812x2)	*	Nos	2	812	3086
10	Releasing & Refixing of HG Fuse unit(2x168x1.9)	,	Set	2	168	639
9	Fixing of 11mts Spun Pole Structure Kit		Nos	2	1439	2,878
8	Releasing & Refixing of 200 Amps GOS (311x1.9x2)		Set	2	311	1,182

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	Permanent Shifting of F-3	Liviateri	als kec	uneu	3	г
	PART-A					
Sl.no	Particulars .	Code	Unit	Qty	Rate	Amount
1	11 KV Class 3x400 Sqmm XLPE UG Cable	287350	mts	0.500	1318625	659,313
2	Straight Through Jointing Kit H.S Type Suitable for 400Sqmm U.G Cable		Nos	3	5672	17,016
3	G.I Pipe 150mm Dia drain Crossing Cable raising & drain Crossing	768058	mts	10	948	9480
4	Cable Covering tiles 250x250x40mm	801035	Nos	1200	8	9600
5	Sand River	800630	cmt	18	1040	18720
6	Rout & jointing Indicating Stone		Nos	10	115	1,150
7	Misc Materials					1121
				716,400		
	Labour Charges of F-	31 NRS				
Sl.no	Particulars .	Code	Unit	Qty	Rate	Labour Cost
1	Cable Trench Exvation (1000x0.6x1=600)		Cmts	0,5	143	42,900
2	Laying of Cable in trench		Kms	0.5	28158	14079
3	Refilling and Consolidation		Cmts	0.165	45	7,425
4	Making of Straight through Jointing kit	:	Nos	3	1260	3,780
5	Making of Cable Termination		Nos	2	1120	2,240
7	Spreading Sand forming with sand round the cable		Kms	0.3	6475	1,943
9	Laying of Route & Jointing Indicating Stone		mts	10	48	480
19	Laying of RCC Hume Pipe		Nos	10	28	280
23	Misc Labour					2003
			To	otal		75,130

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Si.no	Feeder		Materials charges	Labour charges	
1	F-3	Temporary Shifting	641970	145860	
		Permanent Shifting	2660441	246050	
		Total	3302411	391910	
2	F-31	Permanent Shifting	716400	75130	
		Total .	716400	75130	
3	F-16	. Permanent Shifting	1273970	143610	
		Total	1273970	143610	
-4	F-17	Temporary Shifting	387490	80070	
		Permanent Shifting	1785160	181617	N S
		Total	2172650	261687	
5	F-23	Temporary Shifting	564130	249060	
		Permanent Shifting	1829240	164420	
		Total	2393370	413480	

	Materials charges	Labour Charges	
F-3	3302411	391910	
F-31	716400	75130	
F-16	1273970	143610	
F-17	2172650	261687	
F-23	2393370	413480	
Total	9858801	1285817	

···.

Credit Materials

SI.No	Feeder	Feeder coyote		D.P Set	Rail Pole	Horizontal Xarm	Spun pole D.F	
1	F-3	1700Mts	Nil	1 No	2 No	20 Nos	1 No	
2	F-16	2025mts	Nil	1 No	2 Nos	Nil	NII	
3	F-17	900Mts	NII	Nil	Nil	13Nos	1 NO	
4	F-23	800 Mts	1 no		Nil	15 Nos	Nil	
5	F-31	Nil	Nil	Nil	NÎI	Nil	Nil	
•		5425	1	2	4	48	2	

Released Good Not used 30 Nos 9 mts RCC Pole to be Returned to Stores.

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Materials		unit	Qnty	Rate	Amount
Coyote onductor	5425mts	Kgs	2712.5	64	173600
GOS	1 no	Kgs	20	·16	320 .
D.P SET	2 nos	Kgs	40	18	720
Rail Pole	4 nos	Kgs	400	24	9600
Horizontal xarm	48 nos	Kgs	96	18	1728
Spun Pole D.P	2 nos	Kgs	60	18	1080
			Total		187048

BANGALORE ELECTRICITY SUPPLY COMPANY Self execution work Amount (in Rs.) **Particulars** SI.No 9858801 Materials Cost 1285817 2 Labour Charges Locality Allowance @ 15% on Labour charges 192873 3 (applicable for areas mentioned in page no.----) *Contingencies @ 2% on Total material & labour 222892 Employees cost @ 10% on total labour Charges * 119522 5 (2+3)1821104 Total labour charges Statutory charges such as Road cutting charges 0 payable to BBMP or local authorities as per Government electrical inspectorate charges as per 0 8 actuals. 20000 Restoration Charges

1) All the materials required for execution of works have to be arranged by the 10% Supervision charges Rg. 11, 56,050=00. agencies.

11699905

2) No material shall be supplied by ESCOMs.

Total Cost of Estimate in Rs.

3) The materials shall conform to ESCOMs specifications and shall be got inspected execution of work. The material shall be procured by the agencies from the before approved vendors.

Certificate: Certified that I have personally inspected the spot and prepared this estimate by using current rates in force and safe way of executing the work.

REPORT:- Estimate amounting of Rs -11699905 /- is Prepared for Shifting of Temparary & permanent Electric Utilities Like DTC, DP, HT & LT lines in feeder F-3,F-16,F-17,F-23,F-31 NRS at WCR as per request of chief engineer BBMP for carrying the Fly Over and Under Pass work. In O & M9 N3 Sub division, Under self execution works.

東京議員の第八大本代、中部二十二

	Labour for Tem	parary Sm	Tung		-	
+	Particulars	Code	Unit	Qty	Rate	Amount
no	Releasing 9 mts RCC Poles (483x0.9x30)		Nos	30	483	13,041
1	Releasing 8 mts PCC Poles (483x0.9x8)		Nos	8	483	3,478
2	Releasing 8 mts RCC Poles (483x0.9x6)		Noş	6	483	2,608
3			Nos	1	861	775
4	Releasing 11 mts Spun Poles (861x0.9x1)		Nos	·29	71.4	1864
5	Releasing Horizontal Xarm (71.4x0.9x29)				71.4	835
6	Releasing & Refixing 4Pin Xarm (71.4x1.9x13)		Nos	13		678
7.	Releasing & Refixing 2Pin Xarm (71.4x1.9x5)	•	Nos	5	71.4	
. 8	Releasing Coyote Conductor (3.225x0.9x1471)		Mts	1471	3.225	4309
	Releasing Rabbit Conductor		Mts	700	1.846	1163
9	(1.846x0.9x700)		Nos	23	483	11109
10	Errection of 9 mts RCC Poles(483x23)		Nos	5	861	2583
11	Errection of 11 mts Spun Poles (861x5)		Mts	1063	3.225	3429
12	Restringing of Coyote Wire (3.225x1063)	-	-	1.846	1108
13)	Mts	600	-	+
14			Nos	4	966	734
15	Releasing Spun Pole Structure Kit (143	9	. Nos	1	1439	1,43
16	Fixing of Spun Pole Structure Kit	4	Nos	5	1439	719
	Releasing & Refixing Double Pole T.C		Nos	5	2303	115
17	Structure Kit (2303X3)		Nos	20	406	8,12
1	Providing of Earthing (406x20) Releasing & Refixing of 200Amps GO	S	Nos	6	311	3,54

B.B.M.P has taken Up the Fly over and Under Pass works at WCR and Requesting for Shifting of electrical utilities Like D.T.C's, D.P's, HT & LT Lines at WCR But Proposing places are not available and consumer Will not allowed for shifting of DTC & DPs and HT& LT Lines. Hence it is Proposed to Shift the DTC & DP's any Convinient places temporarly HT Line Will Proposed for shifting on Existing LT lines by Providing HT Brackets and some 8 mts Pole to be Replaced by 9mts RCC Poles, after Compleating the Fly over and under Pass Work once again the DTC and DP. HT line Will be Shifted Permanently to same Existing Places. By Providing HT UG Cable System, (Loop in and Loop out). The LT Line will be Shifted to existing HT. Bracket (Place). Released some Coyote and Rabbit Wires and other Materials Will be Used for Jumps and other Purposes. F-16 Over Head Lines is carrying 2 Nos of Feeder F-14 and F-16. F-14 pertain's N1 Sub Division. Hence materials like Horizonal Xarm and RCC Pole to be Released by N1 Sub Division. and Power Supply Interruption Will be Occured While Carrying this Shifting Work These are Feeding From F-16,F-3,F-17,F-23,F-31 N R S Station.

All the Necessary Materials & labour are Menctioned in This Estimate Some Released Materials are Shown as Credit. Hence this Estimate may Kindly be sanctioned at Earliest. Under Self Execution Work.

Asst.Engineer, Elecl., O&M-9 Unit.

N3 Sub-Division (Elec)

Sub-Dyn., BANGALORE

Asst.Executive Engneer, Elecl.,

ASSISTATE N-3 Sub-Dyn.

Basayashara ayan, Basaya ara

	Permanent Shifting of F		T	$\neg \neg =$		- Control	
Sl.no	Particulars	Code	Ur	it C	ity R	ate	•
1	11 KV Class 3x400 Sqmm XLPE UG Cable	28735				8625	Amour
2	Straight Through Jointing Kit H.S Type Suitable for 400Sqmm U.G Cable	288329				572	22,688
3	Cable Termination Kit Out Door 3x400 Sqmm XLPE	288305	Kit	: 2	2 27	63	5,526
4	G.I Pipe 150mm Dia drain Crossing Cable raising & drain Crossing	768058	mts	30	94	18	28440
5	5 Cable Covering tiles 250x250x40mm 8010		Nos	320	00 8	1	25600
6	Sand River	800630 cmt 48			+	49920	
7	Rout & jointing Indicating Stone		Nos	16	111	5	1,840
8	11 mts Spun Pole	200120	Nos	1	1350		13;500
9	Spun Pole Structure Kit	279128	Set	1	2080	0	20,800
ro .	Earthing Materials	281674, 600095, Nos 607054		2	1010		2,020
1	D.P Set		Set	1	11320		11,320
2	H-Frame for 400Amps GOS		Set	1	2950	+	2950
3	400Amps Double Break GOS	304224	Nos	1	14256		14256
1	185 sqmm Copper terminals	288534	Nos	18	225		4050
	PG Clamps Coyote to Coyote	285518	Nos	9	251	+	2259
	Alkathine tube	821900	Coil	1	480	-	480
	G.i Wire 8 S.W.G	281008	Kgs	25	57.35	+	33,75
	Bolt & Nuts	733618	Kgs	25	55.71	-	393
	Concreting Materials for Spun Pole			1	9477		477
1	Misc Materials					-	117
			Tot	al			3,970
	Labour Charges of F-16 NRS	. [T			,,	

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20	Releasing & Refixing of 400Amps GOS (1.9x311x3)		Nos	3	311	1773
21	Releasing & Refixing of HG Fuse Unit (1.9x168x6)		Nos	6	168	1,915
22	Releasing & Refixing of H-Frame for GOS (1.9x136x9)		Nos	9	136	2326
23	Releasing & Refixing of DTC Metering Box (1.9x812x5)		Nos	5	812	7714
24	Releasing & Refixing of Lighting Arrester(1.9x50.4x6)		Nos	6	50.4	575
25	Releasing & Refixing of Distribution Box (1.9x322x5)		Nos	5	322	3059
26	Fixing of Special 3Pin xarm (71.4x24)		Nos	24	71.4	1224
27	Fixing of Brace for Special 3Pin xarm (51x14)		Nos	14	51	1714
28	Digging of pit for 9mts RCC Pole (267x23)		Nos	23	267	6141
29	Digging of pit for 11mts Spun Pole (805x3)		Nos	5	805	4025
30	Laying of Cable in trench for Horizontal drilling With 6 inch boresize with HDPE Pipe (0.2x900=180)			180	700	126000
31	Making of straight Through Joints 3x400sqmmXLPE			3	1260	3780
32	Making of Cable Termination 3x400 Sqmm XLPE Out door			1	, 1120	1120
33	Laying of G.I pipe			10	32	320
34	Laying of Route and Indication Stone			4	48	192
35	Misc Labour					1,046
			Tota	1		249,060
	Permanent Shifting Materials	required	F-23 NR	S, PAR	т-в	
no	Particulars	Code	Unit	Qty	Rate	Amount
1	11mts spun pole	200120	Nos	3	13250	39,750
2	spun pole structure kit	279128	Nos	3	20800	62,400

Sl.no	Particulars	Cod	e Unit	Qty	Rat	te Labour Co
1	Cable Trench Exvation (1000x0.6x1=600)x0.8		Cmts	480	143	
2	Laying of Cable in trench		Kms	0.8	2815	58 22526
. 3	Refilling and Consolidation		Cmts	440	32	14,080
4 Making of Straight through Jointing kit			Nos	4	1260	
5	Making of Cable Termination		Nos	2	1120	
6	Covering the Cable with tiles		Kms	0.8	1843	-,-,-
7	Spreading Sand forming with sand round the cable		Kms	0.8	6475	1,
8.	Laying of G.1 Pipe	.i	Nos	25	45	1,125
9	Laying of Route & Jointing Indicating Stone		mts	16	67	1,072
10	Releasing Coyote Wire(2250x30225x0.9)		Nos	2250	30225	6,531
11	Digging of Pit For 11 mts Spun Pole		Nos	1	805	805
12	Errection of Spun Pole		Nos	1	861	861
13	Fixing of Spun Pole Structure Kit		Nos	1	1439	1,439
14	Releasing Rail Pole		Nos	2	483	966
15	Releasing 9mts RCC Pole		Nos	3	483	1,449
6	Releasing 2Pole D.P Set (1645x0.9x1)		Set	1	2303	2,073
7	Releasing Horizontal Xarm		Nos	3	71.4	153
8	Providing of Earthing		Nos	2	406	580
)	Laying of RCC Hume Pipe		mts	50	39	1960
Re	Pleasing & Refixing of H-Frame for 400 Amps GOS (1.9x136x2)		Nos	2	136	517
	Releasing & Refixing of 400 Amps GOS (1.9x311x1)		Nos	1	311	591
	Fixing of D.P Set		Set	1	2303	2303
	Misc Labour					2005
			Total			143,610

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Fax: 080-22945105

Phone: 22945124

BANGALORE WATER SUPPLY AND SEWERAGE BOARD

Cauvery Bhavan. K.G.Road, Bangalore-560009

No. BWSSB/EIC/ACE(M)-II/DCE(M)/TA-8/ 2870 /2012-13 Date: 34/4/2012

10

The Engineer-in-Chief Bruhat Bangalore Mahanagara Palike, N.R. Square, Bangalore,

Sir.

Sub: Estimate for the work of providing and laying different dia MS & DI water supply pipeline along WOC road due to improvements to corridor along WOC road from Manjunathanagar main road junction to Basaveshwaranagar main, road junction under deposit contribution work of BBMP coming under Rajajinagar S/stn. of West-2 Sub-div.

Ref: BWSSB/EE(W)/PB/2953 / 2012-13 Dated: 27.06.2012

Please find herein enclosed three sub-estimates amounting to Rs.2.30.50,0000-Rappes Two Cares Thirty Takhs Fifty Thousand only) for the above work. The estimate is based on the S.R of 2012-13: of BWSSB.

The report accompanying the estimate explains the necessity of work and on visions made herein. Necessary provisions for E.T.P. charges at 5 % are made to the estimate.

Further, as per para-243 (ii) of KPWD Code Volume-Line Board does no maintenance complete the work within the estimated cost and any excess that maintenance is and above the estimated cost has to be borne by the counter signing and wife.

The estimate may kindly be retransmitted duly countersigned with funos for again the action in the matter.

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Engineer-In-Ch241711

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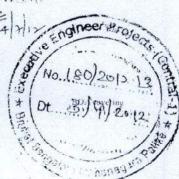
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REPORT ACCOMPANYING THE ESTIMATE

for the work of providing and laying of 610 mm, 508mm,457mm & 324mm dia MS & 150mm dia DI pipeline along W.O.C road under deposit contribution work of BBMP due to improvements of corridor along W.O.C road from Manjunathnagar main road junction to Basaveshwara main road junction coming under Rajajinagar service station of West- 2 sub division, BWSSB

An estimate for the above work is framed amounting to Rs. 269.50 lakhs based on BWSSB SR 2012-13 for labour portion and BWSSB Store issue rates for material portion.

The water supply to Rajajinagar, Shivanhalli, Dasarahalli and Magadi road is being maintained by BWSSB using the existing 600 mm dia CI line running from Ist block Rajajinagar to Magadi road all along W.O.C road with several lateral branches at all encountered cross roads. Now, the BBMP authorities have informed that the work of improvements to corridor along W.O.C road from Manjunathnagar main road junction to Basaveshwaranagar main road junction has to be taken up and have requested BWSSB to estimate the amount required for the work of shifting / providing new water supply pipelines all along the W.O.C road at proposed under pass and flyovers. Acordingly, an estimate is prepared for providing and laying of different dia MS & DI water supply pipeline along W.O.C road at the proposed locations of flyover and underpass. The following are the provisions made in the estimate

Cutting asphalt road

- Earthwork excavation in 0-2 mtrs depth in all soils, in DIR & in HR by chistellimg.
- Manufacturing, providing, transporting, rolling, lowering, laying & jointing, testing, commissioning of SAW MS pipe (Fe-410 grade) conforming to IS 3589-2001.
- Manufacturing, providing, transporting, rolling, lowering, laying & jointing, testing, commissioning of MS Specials
- Supplying and fixing of CI valves
- Supplying Ductile iron pipes conforming to IS:8329-2000

- Providing and laying vibrated cement concrete of 1:2:4 proportion for RCC work with 20 mm for thrust blocks
- Providing TMT steel reinforcement for RCC work
- · Refilling pipeline trenches

Under the said circumstances explained above, the estimate may be kindly approved under Deposit Contribution work of BBMP for the year 2012-13.

AE (Rajajinagar)

Asst Ex Engineer
West-2 Sub Division, BWSSB,
Ist 'N' Block, Rajajinagar, Bangalore.

Executive Engineer

West Division, BWSSB,

RPC layout, Vijayanagar II stage,

Bangalore.

ESTIMATE FOR THE WORK OF PROVIDING AND LAYING OF 610 MM, 508MM,457MM & 324MM DIA MS & 150MM DIA DI PIPELINE ALONG W.O.C ROAD UNDER DEPOSIT CONTRIBUTION WORK OF BBMP DUE TO IMPROVEMENTS OF CORRIDOR ALONG W.O.C ROAD FROM MANJUNATHNAGAR MAIN ROAD JUNCTION TO BASAVESHWARA MAIN ROAD JUNCTION COMING UNDER RAJAJINAGAR SERVICE STATION OF WEST- 2 SUB DIVISION, BWSSB

ABSTRACT

SL NO	PARTICULARS	: AMOUNT (in Rs)
1	MANJUNATHNAGAR MAIN ROAD JUNCTION (Sub Estimate -1)	2334000.00
2	SHIVANAGAR IST & 8THMAIN ROAD JUNCTION (Sub Estimate -2)	13881000.00
3.	BASAVESHWARANAGAR IST MAIN ROAD JUNCTION (Sub Estimate -3)	3012000.00
	SUB TOTAL 'A' (SL NO 1 TO 3) = Rs	19227000.00
4	Add for Tender Premium 25% on Labour Portion 25% on (Rs22,41,749+Rs1,31,66,367+Rs.30,12,000) = Rs.1,84,20,116/-	4605029
5	Add for Escalation 15% on Materials portion 15% on (Rs.91750+Rs.714436) = Rs 8,06,186/-	120928
	SUB TOTAL 'B' (SL NO 1 TO 5) = Rs	23952957
6	Add for ETP charges 12.5% on sub total 'B'	2994120
7	MISC & ROUNDING OFF	2923
	GRAND TOTAL = Rs.	26950000.00

AE(Rajajinagar)

Asst Ex Engineer
West-2 Sub Division, BWSSB,
Ist 'N' Block, Rajajinagar, Bangalore.

West Division, BWSSB, RPC layout, Vijayanagar II stage,

Bangalore.

SUB ESTIMATE - 1

FOR THE WORK OF DEVIATION OF 24" CI WATER SUPPLY RISING MAIN BY PROVIDING 610MM DIA (OD)7.9MM THK SAW MS PIPE IN SERVICE ROAD OF W.O.C ROAD FROM CHURCH NEAR 32ND CROSS (BBMP FLYOVER CHAINAGE 320 MTR) TO KEB QUARTERS (BBMP CHAINAGE 480 MTRS) MANJUNATHNAGAR MAIN ROAD JUNCTION , 2ND BLOCK, RAJAJINAGAR, WARD NO.99 COMING UNDER RAJAJINAGAR S/STN OF W-2 SUB DIVISION, BWWSB, UNDER DC WORKS OF BBMP DUE TO IMPROVEMENTS OF CORRIDOR OF W.O.C ROAD

SL	PARTICULARS	UNIT	NO'S	L	В.	D	QTY	RATE (in Rs)	AMOUNT (in Rs)
0.								6	
	PART 'A' :- MATERIAL POR	1						(45a-1)	
1)	150 mm dia DI pipe with rubb	er gasket	K-7 clas	Ś					
		Rmt	· · · I				50.00	1415.00	70750.00
2)	150mm-dia CI sluice valve w	ith TP set							
		No's	Г	•	· T		.2	10500.00	21000.00
		1403				411 A 11 A 11	torial po	rtion =Rs	91750.00
-					Total Pa	irt"A" ivia	iteriai po	rtion =Rs.	
B)	PART B' :- LABOUR PORT	TION	1:				165 m	2	
1	Cutting road surface for excavated stuff as directed the following classifications					g etc., in			
a	Asphalt road				1.2	0.3	75.60		
i	for pipeline trenches	Cum		210		0.3	2.16		
ii	for linking pits	Cum	2	1.5	2.4	Total =	77.76	258.50	201 01.0
-1							11.10		
	Earth work excavation for including depositing on bar	or pipeline nk up to a	trenche lead of	30 mtrs	of building	strutting,			
2	lighting and using sight rais	100 mtrs v	vhereve	r necess	ary as di	rected in			
2	lighting and using sight rails bailing out water at every the following strata (BWSSI 0-2 mtr depth	100 mtrs v	vhereve	r necess	ary as di	rected in			
	lighting and using sight rails bailing out water at every the following strata (BWSS)	100 mtrs v	vhereve	r necess	sary as di	rected in	453.60		
	lighting and using sight rails bailing out water at every the following strata (BWSSI 0-2 mtr depth for pipeline trenches	100 mtrs v B SR 2008	vhereve -09, P -	7 necess 3, I - 1.B	sary as di	rected in	453.60		
	lighting and using sight rails bailing out water at every the following strata (BWSSI 0-2 mtr depth	100 mtrs v B SR 2008	vhereve -09, P -	3, I - 1.B	sary as di 3) 0 1.2 5 2.4	rected in			
	lighting and using sight rails bailing out water at every the following strata (BWSSI 0-2 mtr depth for pipeline trenches	100 mtrs v B SR 2008 Cum	vhereve -09, P -	210 2 1.9	(a) (b) (c) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a	1.8 2.25 Total =	16.20		
	lighting and using sight rails bailing out water at every the following strata (BWSSI 0-2 mtr depth for pipeline trenches	100 mtrs v B SR 2008	vhereve -09, P -	210 2 1.9	sary as di 3) 1.2 5 2.4 ty vide ite	1.8 2.25 Total =	16.20 469.80		

Str NO.	PARTICULARS	UNIT	NO'S	Ĺ	В	D_	QTY	RATE (in Rs)	AMOUNT (in Rs)
b)	 do - In disintegrated rock, soft comprising of lime stone, sand h rock without resorting to blasting 	nard sha				30%	117.612		
(c)	- do - in hard rock by chistelling					20%	78.41	828.30	64945.00
	Manufacturing, providing, transp testing, commissioning of SAW IS 3589-2001 with latest amer welding of joints to correct pos pipes and materials with all lea	MS pip ndment ition in d and	s including lift, cos	410 grading pectors cost and tof all	de) cont rfectr lind nd conve labour a	forming to aking and eyance of and giving			
i i	satisfactory hydraulic test as per for pressure test and working promplete as per detailed specininimum 10 mm thick upto 610 mm OD and outside 1:3 over 50 x 50 mm weeld me	oresuur ificatior 10 mm minim	e both with OD & um 25	at fact inside (minim mm thic	ory and CM 1:1. um 12 i	site etc., 4 linig of mm thick ng in CM			
P T O	inloading of pipes for the following balate as noted below, including both he rates are inclusive of all taxes own arrangements for procuring v2-33, Item No. 1.9.4)	ng diam ailing o es and	neters nout of warduties.	ad spec ater who (contra	cified thic erever ne ctor will	ckness of ecessary. make his	170		
F	or 610 mm dia (OD) 7.9mm nick	Rmt		160			160.00	9852.70	1576432.00
lte co lin in pr m	lanufacturing, providing, transpo- esting, commissioning of MS enforming to IS 7322-1985 with aking and welding suitable to Spi to the pipe line system, including oper alignment and tightening aterials, all labour, transportation omplete (Approved Data Rates of	special specia	amendo sockets introducts ats and	f minir ments i of CI pi cing the bolts, i	mum 8i ncluding pes afte rubber ncluding	mm thk perfectr er setting gasketto cost of			
for	600 mm dia size	set .	. 4		: 1		4.00	15910.00	63640.00
tes con link cor sat for cor foo mic app min of 1 cate all t	anufacturing, providing, transporting, commissioning of MS Soforming to 7322.1985 with laking and welding of joints to inveyance of materials with all levisfactory hydraulic test as per I pressure test and working propolete as per detailed specificated grade epoxy painting of appearon, thick(after dry) over one proved make with minimum of 5 mm thicks coating in 13 gauge, including loading and gard coating to arrive at the raise and duties. The weight of gand coating to arrive at the raise and duties arrive at the raise and duties.	pecials atest a correct ad and S 3589 esuure ation we proved coat of CM 1:3 d unload /PVC pf MS st	of min mendm t positi lift, cost 2-2001 v both a ith inside make v f food v on thick over 50 ding of pipes.Th	ents in on included to factor de linig with ear grade e (after colors to more than the colors that the colors than the colors than the colors than the colors that the colors than the colors than the colors than the colors that the colors than the colors than the colors than the colors that the colors than the colors than the colors than the colors that the colors than the colors than the colors than the colors that the colors than the colors than the colors than the colors that the colors than the colors than the colors than the colors that the colors	8mm the cluding adding company and sign of two control of the form the form are including the control of the control	perfectrest and diving dments at etc., soats of of 250 imer of outside d mesh allowing asive of			

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SL.	PARTICULARS '	UNIT	NO'S	Ė.	В	D	QTY	RATE (in Rs)	AMOUNT (in Rs)
. b)	 do - In disintegrated rock, soft comprising of time stone, sand rock without resorting to blasting 	hard sh	and me	dium hai niest, fiss	rd rock, sured ·	30%	117.612	169.40	19923.0
c)	- do - in hard rock by chistelling			•		20%	78.41	828.30	64945.0
	Manufacturing, providing, transposed testing, commissioning of SAW IS 3589-2001 with latest ame welding of joints to correct popipes and materials with all lessatisfactory hydraulic test as perfor pressure test and working complete as per detailed speminimum 10 mm thick upto beyond 610 mm OD and outsid 1:3 over .50 x 50 mm weeld munloading of pipes for the follow plate as noted below, including The rates are inclusive of all tallown arrangements for procuring P-33, Item No. 1.9.4)	MS pi endmen sition in ad and er IS 35 presuu cificatio 610 mn de minin nesh of ving diam bailing xes and	pe (Fe- ts inclu ncluding lift, cos 889-200 ure both n with n OD 8 mum 25 13 gau meters out of w d duties	410 gra ding pe cost ar st of all 1 with la at fact inside (& minim mm thic ige, included vater who (contra	de) conformed conversel labour a labour and CM 1.1.4 cok coatifuding load cified this erever new labour will	orming to king and eyance of nd giving nedments site etc., I linig of mm thick ng in CM eding and ckness of ecessary.			manus .
	For 610 mm dia (OD) 7.9mm thick	Rmt		160			160.00	9852.70	1576432.00
4	Manufacturing, providing, transpotesting, commissioning of Maconforming to IS 7322-1985 which will be suitable to Sinto the pipe line system, include proper alignment and tightening materials, all labour, transported complete (Approved Data Rates)	MS specific spigots and	ecials at amen and socket d introduts an anateria	of minion of minion of minion of classification of classification of the classification	imum 8 including pipes afte e rubber including	mm thk perfectrer setting gasketto cost of			
1	for 600 mm dia size	set .	. 4				4.00	. 15910.00	63640.0
tt control of the con	Manufacturing, providing, transposesting, commissioning of MS conforming to 7322.1985 with inking and welding of joints conveyance of materials with all satisfactory hydraulic test as performed pressure test and working complete as per detailed spectood grade epoxy painting of micron, thick(after dry) over or approved make with minimum of minimum 25 mm thickk coating of 13 gauge, including loading sategory to suit PSC /MS/CI/AC all taxes and duties. The weight	Special latest to correct lead are IS 35 presuu approvene coat in CM and un and un c/DI/PV0	als of ramend amend lift, constant l	minimum Iments in sition incost of all 1 with later factors and lining e with edgrade ick (after 50 x 50 of pipes. The rate	n 8mm to the color of the color of two each color of the	perfectres and giving edments site etc., coats of to f 250 orimer of doutside eld mesh following elusive of			

SŁ NO.	DADTICIII ADC	UNIT	NO'S	L	В	D	QTY	RATE (in Rs)	(in Rs)
	The thickness of plate will be make his own arrangements for SR 2008-09, P-33, Item No. 1.9	or proci	uring wa	ater for					
	above 500 mm dia of pipe	Kgs	2.7				750.00	101.20	75900.0
	4No's bend of 1.50 mtr length ea	ach.				1			
	Wt=1) 4 no's* 3.14*0.602*0.007 2) 600 X 150 mm branch =				s				
	Labour charges for laying Du 2000 with latest amendments lowering into trenches, true to testing and commissioning, in destinations and cuts of pipes v DI pipes and specials (excludin jacking & fixing to perfect consoft soap, waste, etc., and g required pressure as per IS with materials (contractor will make water for testing) (BWSSB SR 20	, conve line, le cluding whereve g cost litions in iving n all lead this or	eying to vel and loading or neces of spec ncluding ecessar I and lift wn arra	work perfect and usary indicates ials) with cost of y hydra including	site, ro linking nloading sluding j h rubbe f soap aulic tes ng cost o	olling and at joints, g at both ointing of er gasket, solutions, at to the of jointing	÷ 		
1	for 150 mm dia K-7 class	Rmt	T	50			50.00	49.50	2475.00
1	Labour charges for fixing of C tail pieces (rubber insertyion, nu and fixing in pipeline and etc.,(BV	ts & bo	Its to be	supplie	ed by th	e board)	#0.EZ.		
1					,	1			
1	150 mm dia	No's	2				2.00	96.80	194.00
F F b is is s p	Providing and laying vibrated cer RCC work with 20 mm and do proken granite, trap, basalt or wincluding cost of conveyance of including machine mixing, cer caffolding, tamping, curing, corroportion, 12mm thick excluding	ment co own size of all natering, ement g cost	2 oncrete te of ap other ap naterials plywoo mortar of reinfo	of 1:2:4 oproved oproved s with a d / ste	1 propo gradati hard ag all lead eel forn	rtion for on hard ggregate and lift n work, CM. 1:3	2.00	96.80	194.00
F b ir ir s p	Providing and laying vibrated cer RCC work with 20 mm and do proken granite, trap, basalt or with including cost of conveyance of including machine mixing, cer caffolding, tamping, curing, cor proportion, 12mm thick excluding 1008-09, P28, I6.1.) for Thrus	ment co own size of all natering, ement g cost	2 oncrete te of ap other ap naterials plywoo mortar of reinfo	of 1:2:4 oproved oproved s with a d / ste	1 propo gradati hard ag all lead eel forn	rtion for on hard ggregate and lift n work, CM. 1:3	2.00	96.80	
FF F b irrium s p 2	Providing and laying vibrated cer RCC work with 20 mm and do proken granite, trap, basalt or wincluding cost of conveyance of concluding machine mixing, certain caffolding, tamping, curing, corportion, 12mm thick excluding 008-09, P-28, I-6.1.) for Thrus RSRB 4-9.2: Providing TMT steel acluding straightening, cutting, but apping and or welding wherever inchoring to the adjoining member design (laps and wastages sheaterails, laobur, HOM of machines 4.6.3) PWD SR 2011-12 P-1	ment coown size with any of all not block Cum reinforce equired ers when all not baery co	poncrete te of apother	of 1:2:4 pproved pproved with a d / ste plasteri procemer 3 t for RC p, placing ith bindin ecessar ured and as per sp	propo gradati hard agail lead eel form ing in it. (BWS	rtion for on hard ggregate and lift work, CM. 1:3 SSB SR 2.5			194.00 365191.00
FF F b irris s p 2	Providing and laying vibrated cer RCC work with 20 mm and do proken granite, trap, basalt or wincluding cost of conveyance of concluding machine mixing, cer caffolding, tamping, curing, corportion, 12mm thick excluding 008-09, P-28, I-6.1) for Thrus SRB 4-9.2: Providing TMT steel coluding straightening, cutting, but the piping and or welding wherever inchoring to the adjoining member design (laps and wastages sheaterails, laobur, HOM of machin	ment coown size with any of all not block Cum reinforce equired ers when all not baery co	poncrete te of apother	of 1:2:4 pproved pproved with a d / ste plasteri procemer 3 t for RC p, placing ith bindin ecessar ured and as per sp	propo gradati hard agail lead eel form ing in it. (BWS	rtion for on hard ggregate and lift work, CM. 1:3 SSB SR 2.5			
FF F b ir ir s p 2	Providing and laying vibrated cer RCC work with 20 mm and do proken granite, trap, basalt or wincluding cost of conveyance of concluding machine mixing, certain caffolding, tamping, curing, corportion, 12mm thick excluding 008-09, P-28, I-6.1.) for Thrus RSRB 4-9.2: Providing TMT steel acluding straightening, cutting, but apping and or welding wherever inchoring to the adjoining member design (laps and wastages sheaterails, laobur, HOM of machines 4.6.3) PWD SR 2011-12 P-1	ment coown size ith any of all not be reinforced in the reinforced	poncrete te of apother	of 1:2:4 oproved oproved s with a d / ste plasteri orcemen at for RC g, placing ith bindin ecessar ured and as per sp 50mm C	propo gradati hard ag all lead eel forn ing in int. (BWS 1.8 C work g in posi ng wire a y compl d paid) o pecificat /C skin	rtion for on hard ggregate and lift work, CM. 1:3 SSB SR 2.5 cition, and ete as cost of ion No.	54.00	6762.80	365191.06

NO.	PARTICULARS		по.г		В	. D.	QTY	RATE (in Rs)	AMOUNT (in Rs)
	Supplying and fixing pre of 600x600x200mm for valve city valve (data rate approved by A	stern (per	r slab) f	or 100n	nm & 15	0mm dia			
		No's	2				2	1165.00	2330.00
		No's	2		Total	Part"B"	2 labour po		2330.00 2241749.00
12	Misc and rounding off	No's	2		Total	Part"B"	2 labour po		2000.00

. AE(Rajajinagar)

Asst Ex Engineer

West-2 Sub Division, BWSSB, Ist 'N' Block, Rajajinagar, Bangalore.

West Division, BWSSB,
RPC layout, Vijayanagar II
stage, Bangalore.

SUB ESTIMATE - 2

FOR THE WORK OF DEVIATION OF 24" CI WATER SUPPLY RISING MAIN BY PROVIDING 610MM DIA (OD)7.9MM THK SAW MS PIPE IN SERVICE ROAD OF W.O.C ROAD FROM KEB STATION (BBMP UNDERPASS CHAINAGE 560 MTR) TO 18TH A MAIN (BBMP CHAINAGE 1200 MTRS) SHIVANAGAR IST & 8THMAIN ROAD JUNCTION, 3RD & 5TH BLOCK, RAJAJINAGAR, WARD NO.107 & 108 COMING UNDER RAJAJINAGAR S/STN OF W-2 SUB DIVISION, BWSSB, UNDER DC WORKS OF BBMP DUE TO IMPROVEMENTS OF CORRIDOR OF W.O.C ROAD

THE REAL PROPERTY.	PARTICULARS	UNIT	NO'S	L.	В	D	QTY	RATE (in Rs)	AMOUNT (
A)	PART 'A' :- MATERIAL POR	TION							
1)	150 mm dia DI pipe with rubb	er gasket	K-7 cla	ss					
		Rmt					110.00	1415.00	155650.0
2)	CI sluice valve with TP set					1			
a)	600 mm dia .	No's	4				2	108461.00	216922.0
b)	450 mm dia	No's					4	55380.00	- 221520.0
c)	300 mm dià	No's					4	25245.00	100980.0
d)	150 mm dia	No's					2	9682.00	19364.0
	···				Total	Part"A"	Material po	ortion =Rs.	714436.0
1			1						
3)	PART 'B' :- LABOUR PORTI	ON							
a)	the following classifications (E	300228.21	2008-	U9, P - 5	, 1 - 4.2)				
	WOC road	Cura		1400		0.2	522.00		
1)	for pipeline trenches	Cum		1480	1.2	0.3	532.80		
-						0.01	10.00		
i) f	for linking pits	Cum	12	1.5	2.4	0.3	12.96		
1	Cross roads 41st cross &		. 12	1.5	2.4	0.3	12 96		
t	Cross roads 41st cross &		12	1.5	0.6	0.3	12.96		
t i) fo	Cross roads 41st cross &	50	12						
i) fo	Cross roads 41st cross & h cross	50 Cum		110	0.6	0.3	19.80	258.50	147314.00
i) for	Cross roads 41st cross & h cross	Cum Cum pipeline tr up to a le nd boning mtrs wh	enches ead of 3 rods incerever	110 1.5 (except 30 mtrs cluding s	0.6 2.4 building	0.3 O.3 Total = g works) g danger strutting,	19.80	258.50	147314.00
i) for the liquid the	Cross roads 41st cross & th cross or pipeline trenches or linking pits Earth work excavation for including depositing on bank ghting and using sight rails a ailing out water at every 100	Cum Cum pipeline tr up to a le nd boning mtrs wh	enches ead of 3 rods incerever	110 1.5 (except 30 mtrs cluding s	0.6 2.4 building	0.3 O.3 Total = g works) g danger strutting,	19.80	258.50	147314.00
i) for the line of	Cross roads 41st cross & th cross or pipeline trenches or linking pits Earth work excavation for including depositing on bank ghting and using sight rails a ailing out water at every 10th ine following strata (BWSSB S	Cum Cum pipeline tr up to a le nd boning mtrs wh CR 2008-0	enches ead of 3 rods incerever	110 1.5 (except 30 mtrs cluding s	0.6 2.4 building	0.3 O.3 Total = g works) g danger strutting,	19.80	258.50	147314.00
i) for the liquid by the liqui	Cross roads 41st cross & th cross or pipeline trenches or linking pits Earth work excavation for including depositing on bank ghting and using sight rails a ailing out water at every 10th the following strata (BWSSB SI-2 mtr depth	Cum Cum pipeline tr up to a le nd boning mtrs wh CR 2008-0	enches ead of 3 rods incerever	110 1.5 (except 30 mtrs cluding s	0.6 2.4 building	0.3 O.3 Total = g works) g danger strutting,	19.80	258.50	14731.4.00

SL NO.		UNIT	NO'S	L	В	D.	QTY	RATE (in Rs)	AMOUNT (in
i)	for pipeline trenches	Cum		110	1.2	1.2	158.40		
ii)	for linking pits	Cum	4	1.2	2	1.5	14.40		
						Total =	3466.80		
	. dedu	uct for a	sphalt ro	pad (Qty	vide iten	n No.1)=	-569.88		
			i		. N	let Qty =	2896.92		
a)	- do -In all soils mixed with bo exclusive of disintegrate rock	ulders o	f 30 cm	s size up	to and	50%	1448.46	89.10	129058.00
-	- do - In disintegrated rock, so rock, comprising of lime stone, s fissured rock without resorting to	sand har	d shale,	edium ha , schiest,	rd	30%	869.076	169.40	147221.00
c)	- do - in hard rock by chistelli	ng				20%	579.38	828.30	479904.00
1 u p T o P	conveyance of pipes and material and giving satisfactory hydraulice amnedments for pressure test a site etc., complete as per detaile of minimum 10 mm thick upto peyond 610 mm OD and outside 3 over 50 x 50 mm weeld mentologing of pipes for the following late as noted below, including the rates are inclusive of all tax who arrangements for procuring 19-33, Item No. 1.9.4)	test a nd work d specifi 610 mm minimum esh of 1 ng diam mailing out es and of water for	s per IS ing pres ication v n OD & um 25 m 3 gauge eters na ut of wat duties. (i	S 3589-2 uure both with inside minimur nm thicvke, including d specified ter where contractor) (BWSS	Q01 with at fact to at	h latest ory and 1.4 linig m thick g in CM ng and ness of essary.			
	or 610 mm dia (OD) 7.9mm lick (Along Chord Road)	Rmt		640			640.00	9852.70	6305728.00
th	or 508 mm dia (OD) 7.1mm ick (Along 59th cross for ajajinagar)	Rmt		120	2 2 2 2 2		120.00	7575.70	909084.00
thi Sh to	or 457 mm dia (OD) 6.4mm ick (Along service road of nivanagar side from Ch 1040 Ch 1180 Shivanagar & in Ist ain Shivnagar)	Rmt		220			220.00	6359.10	139900 2.00
thic	r 323.9 mm dia (OD) 5.6mm ck (Along service road of ivanagar side from Ch 540 to 1040 Shivanagar)	Rmt :		500			500.00	4154.70 2	077350.00

NO 4			IIT NO'S		В	D	QTY	RATE (in Rs	1
	Manufacturing, providing jointing, testing, committhe conforming to IS.73 perfectr linking and welding after setting into the piper rubber gasketto proper a including cost of materials and plants etc., complete.(/	ssioning 322-1985 g suitable line syst lignment a all labou	of MS sp with lates to Spigotem, inclusion and tighter	st amend ots / social ding and ening the	f minimu Iments in kets of C introduc nuts and	m 8mm noluding I pipes ing the	n 9 8		
a)	for 600 mm dia size	set	5				5.00	15910.0	79550.00
b)	for 508 mm dia size	set	2				2.00		
c)	for 457 mm dia size	set	4						
4)	for 323.9 mm dia size	set					4.00		
-	Manufacturing, providing,						6.00	6959.00	41754.00
2 a	ite etc., complete as per do oats of food grade epoxy po 50 micron, thick(after dry) of pproved make with minimum	over one composition of 50 miles	approved pat of food	make with d grade e	n each co	oat of ner of	April 19 1		
2 m of ca all lin	50 micron, thick(after dry) of pproved make with minimum aninimum 25 mm thick coating 13 gauge, including loading tegory to suit PSC /MS/CI// I taxes and duties. The weining and coating to arrive at the suit provided in	ainting of a over one come of 50 ming ing in CM on ing and unlight AC/DI/PVC ight of MS the rate. T	approved pat of food icron thick 1:3 over 50 loading of pipes. The shell only	make with grade epock (after drug of x 50 mr pipes for the case and th	n each co poxy prim y) and ou n weeld n the follo re inclusiv	pat of ner of stside mesh wing we of	Xuis		
2 m of ca all lin	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading ategory to suit PSC /MS/CI// I taxes and duties. The weining and coating to arrive at the cove 500 mm dia of pipe	ainting of a over one come of 50 ming ing in CM on ing and unling and unling AC/DI/PVC ight of MS the rate. T	approved pat of food icron thick 1:3 over 50 loading of pipes. The shell only	make with grade epock (after drug of x 50 mr pipes for the case and th	n each co poxy prim y) and ou n weeld n the follo re inclusiv	pat of her of htside mesh wing we of efore spec	1102.00	101.20	111522.00
2 a m of ca all lin ab	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading ategory to suit PSC /MS/CI// I taxes and duties. The weining and coating to arrive at 10 ove 500 mm dia of pipe 10's bend of 1.50 mtr length	ainting of a cover one come of 50 ming in CM on and unlaw of MS of	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness	make with digrade epoint (after dr. 0 x 50 mr. pipes for the rates and be consess of plat	n each co poxy prim y) and ou n weeld n the follo re inclusiv	pat of her of htside mesh wing we of efore spec		101.20	111522.00
2 an of ca all lin	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading ategory to suit PSC /MS/CI// I taxes and duties. The weiging and coating to arrive at 10 ove 500 mm dia of pipe 10 s bend of 1.50 mtr length 11 6 no's* 3.14*0.602*0.00	ainting of a cover one come of 50 ming in CM ing and unless of the cover of the cov	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness 850=1055	make with digrade epock (after dr. 0 x 50 mr pipes for the rates at y be consess of plate.	n each co poxy prim y) and ou n weeld n the follo re inclusiv	pat of her of htside mesh wing we of efore spec		101.20	111522.00
2 a m of ca all lin ab VVt	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading letegory to suit PSC /MS/Cl// I taxes and duties. The weiging and coating to arrive at 10 cove 500 mm dia of pipe 10 s bend of 1.50 mtr length 11 6 no's* 3.14*0.602*0.00 2) 600 X 150 mm branch 12 co. & inclusive of 500 mm dia 50 mm dia 50 mm dia 60 co.	ainting of a period of the common of 50 ming in CM on the common of 50 ming and unlaw of the common	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness 850=1055	make with digrade epock (after dr. 0 x 50 mr pipes for the rates at y be consess of plate.	n each co poxy prim y) and ou n weeld n the follo re inclusiv	pat of her of itside mesh wing we of efore spec		101.20	111522.00
2 and most of case all lin with the lin with the lin with the line with	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading letegory to suit PSC /MS/Cl// I taxes and duties. The weiging and coating to arrive at 10 cove 500 mm dia of pipe 10 s bend of 1.50 mtr length 11 6 no's* 3.14*0.602*0.00 2) 600 X 150 mm branch 12 co. & inclusive of 500 mm dia 50 mm dia 50 mm dia 60 co.	ainting of a period of the company o	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness to be sto	make with digrade epoint (after dr. 0 x 50 mr. pipes for the rates at y be consess of plate (ags, (for 45 gs, (for 45 gs, (for 32 dis include the limit of the linit of the limit of the limit of the limit of the limit of the li	n each copoxy primy) and oun weeld rethe follower inclusive will be seen will be se	pat of her of he	1102.00		-
2 and of case all fin about the second of possible and of the second of	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading ategory to suit PSC /MS/CI// I taxes and duties. The weiging and coating to arrive at the cost bend of 1.50 mtr length are 10.6 no's* 3.14*0.602*0.00 and 1.50 mm branch are 1.0 and 1.50 mm branch are 1.50 m	ainting of a over one come of 50 ming in CM on and unling and unling and unling and in CM of the rate. The come of the rate. The come of the rate. The come of the	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness 50=1055 Total = 11 as 50=526 K 50=426 K	make with digrade epoint (after dr. 0 x 50 mr. pipes for the rates at y be consess of plate (ags, (for 45 gs, (for 45 gs, (for 32 dis include the limit of the linit of the limit of the limit of the limit of the limit of the li	n each copoxy primy) and oun weeld rethe follower inclusive will be seen will be se	pat of her of he	163.00	110.00	127930.00
2 and most of post of	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading ategory to suit PSC /MS/CI// I taxes and duties. The weiging and coating to arrive at a cove 500 mm dia of pipe to be bend of 1.50 mtr length = 1) 6 no's* 3.14*0.602*0.00 a) 600 X 150 mm branch = 0 & inclusive of 500 mm dia pipe = 1) 4 no's* 3.14*0.500*0.006 a) 4 no's* 3.14*0.324*0.006 a) 4 no's* 3.14*0.324*0.006 a) 1163 Kgs our charges for fixing of pieces (rubber insertyion, infixing in pipeline and etc., (Bitch in the country i	ainting of a period of the company o	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness to be supposed to be	make with digrade epoint (after dr. 0 x 50 mr. pipes for the rates at y be consess of plate (ags, (for 45 gs, (for 45 gs, (for 32 dis include the limit of the linit of the limit of the limit of the limit of the limit of the li	n each copoxy primy) and oun weeld rethe follower inclusive will be seen will be se	pat of her of he	163.00	110.00	926,00
2 and most of post of	50 micron, thick(after dry) of pproved make with minimum inimum 25 mm thick coating 13 gauge, including loading ategory to suit PSC /MS/CI// I taxes and duties. The weiging and coating to arrive at a cove 500 mm dia of pipe to be bend of 1.50 mtr length = 1) 6 no's* 3.14*0.602*0.00 2) 600 X 150 mm branch = 0 & inclusive of 500 mm dia pipe = 1) 4 no's* 3.14*0.500*0.006 2) 4 no's* 3.14*0.450*0.006 3) 4 no's* 3.14*0.450*0.006 at = 1163 Kgs our charges for fixing of pieces (rubber insertyion, in fixing in pipelime and etc., (Butter the country of the commodia in the control of the country	ainting of a cover one come of 50 ming in CM on and unling and unling and unling and unling area. The rate. The rate. The rate. The rate of the rate. The rate of the rate of the rate. The rate of the rate of the rate. The rate of the rate of the rate of the rate of the rate. The rate of the ra	approved pat of food icron thick 1:3 over 50 oading of pipes. The shell only he thickness 50=1055 Total = 11 as 50=526 K 50=426 K	make with digrade epoint (after dr. 0 x 50 mr. pipes for the rates at y be consess of plate (ags, (for 45 gs, (for 45 gs, (for 32 dis include the limit of the linit of the limit of the limit of the limit of the limit of the li	n each copoxy primy) and oun weeld rethe follower inclusive will be seen will be se	oat of her of stside mesh wing ve of efore spec	163.00	110.00	127930.00

. 7	PARTICULARS	TINU		L	В	D	QTY	RATE (in Rs)	AMOUNT (i
	Manufacturing, providing, tresting, commissioning of N to IS 7322-1985 with latest a including proper alignment cost of materials, all labour, etc., complete.(Approved Dates)	amendmen and tighter transports	of minir ts (MS f ning the	num 8m langes f nuts an	m thk co	nforming valves)		(103)	Rs)
a)	600 mm dia								
b)	450 mm dia	No's	4				4.00	7900.00	31600.00
c)	300 mm dia	No's	8	(319)			8.00	6405.00	51240.00
d)	150 mm dia	No's	8				8.00	3460.00	27680.00
	Labour charges for laying	No's	2				2.00	2100.00	4200.00
to Pr	required pressure as per IS with materials (contractor will materials (contractor) (BWSSB SR) for 150 mm dia K-7 class for 150 mm dia K-7	2008-09, P	-32 , I -	1.2)	for proc	curing	110.00	49.50	5445.00
br	oken granite, trap basalt or	with any ot	of appi her appi	roved gr	adation indaggre	hard			
inc sca pro	cluding cost of conveyance cluding machine mixing, coaffolding, tamping, curing, operation, 12mm thick excluding 18-09, P-28, I -6.1) for thrust	cement m	ywood	/ steel	form w	ork,			
pro 200	cluding machine mixing, ceaffolding, tamping, curing, poortion, 12mm thick excluding 08-09, P-28, I -6.1) for thrus	cement many of cost of st block. Cum	ortar pl reinforc	/ steel astering ement. (form w in CM BWSSB	ork, 1:3 SR	11.00 6	762.80 52	17787 00
KSI appropriate (BS)	cluding machine mixing, ce affolding, tamping, curing, oportion, 12mm thick excludi	cement mang cost of st block. Cum control reinforce bending, ho required type all not be no paery compiled to the control of	ment for oking, plang with the presence of the	astering ement. (3 or RCC walacing in binding wassary cold and pa	form w in CM BWSSB 1.8 /ork position, //re and /mplete as id) cost o	ork, 1:3 SR 2.5 8			17787.00
KSI production appropriate to the control of the co	cluding machine mixing, ceaffolding, tamping, curing, poportion, 12mm thick excluding the composition of the	cement ming cost of st block. Cum el reinforce bending, ho required type ers whereever all not be no paery comple 21 I No.4.4	ment for oking, plang with the ver necesured at as p 5) 150m	astering ement. (3 ar RCC was lacing in binding was sary could and part of the country of th	form w in CM BWSSB 1.8 /ork position, //re and /mplete as id) cost of fication Notes kin	ork, 1:3 SR 2.5 8			12500
KSF included application of the company of the comp	cluding machine mixing, ceaffolding, tamping, curing, poportion, 12mm thick excluding the compart of the compar	cement ming cost of st block. Cum control reinforce bending, ho required type all not be not be not been completely comp	ment for oking, plant at easured at eas possible to the selection of the s	astering ement. (3 astering ement. (3 astering ement. (3 astering ement. (4 astering ement. (5 astering ement. (6	form win CM BWSSB 1.8 Fork Position, vire and emplete as id) cost of fication Nokin ilabe earth positional insolidation	ork, 1:3 SR 2.5 8 f o.			

SL NO.		UNIT	NO'S	L	В	D	QTY	RATE	AMOUNT (in
a)	for 600mm dia valve	No's	2		-	7-1-2-11		(in Rs)	Rs)
	for 450 mm dia valve						2	42000.00	84000.00
-		No's	8				8	32000.00	
- 1	Supplying and fixing pre ca 600x600x200mm for valve cis valve (data rate approved by Ad	tern (nor	clob) 6	400					
- 1	600x600x200mm for valve cis valve (data rate approved by A	CE(M)-II	Clob) 6	400					
- 1	TO VAIVE CIS	tern (nor	Clob) 6	400	nm & 15 00 Dt:27/	50mm dia 7/2007.)	2	1165,00	2330.00
	valve (data rate approved by A	CE(M)-II	Clob) 6	400	nm & 15 00 Dt:27/	50mm dia 7/2007.)	2		2330.00 13166367.00
	TO VAIVE CIS	CE(M)-II	slab) f vide ltr	400	nm & 15 00 Dt:27/	50mm dia 7/2007.)	2 labour por		13166367.00
	valve (data rate approved by A	CE(M)-II	slab) f vide ltr	400	nm & 15 00 Dt:27/ - Tota	50mm dia 7/2007.) I Part"B"	2 labour por	rtion =Rs.	

AE(Rajajinagar)

Asst Ex Engineer
West-2 Sub Division, BWSSB,
Ist 'N' Block, Rajajinagar, Bangalore.

A

Executive Engineer
West Division, BWSSB,
RPC layout, Vijayanagar II
stage, Bangalore.

SUB ESTIMATE - 3

FOR THE WORK OF DEVIATION OF 24" CI WATER SUPPLY RISING MAIN BY PROVIDING 610MM DIA (OD)7.9MM THK SAW MS PIPE IN SERVICE ROAD OF W.O.C ROAD FROM MEAN LIGHT & CO (BBMP FLYOVER CHAINAGE 1300 MTR) TO HOTEL MADHU (BBMP CHAINAGE 1540 MTRS)

BASAVESHWARANAGAR IST MAIN ROAD JUNCTION, 5TH BLOCK, RAJAJINAGAR, WARD NO.108

COMING UNDER RAJAJINAGAR S/STN OF W-2 SUB DIVISION, BWSSB, UNDER DC WORKS OF BBMP DUE TO IMPROVEMENTS OF CORRIDOR OF W.O.C ROAD

SL NO.	PARTICULARS	UNIT	NO'S	L	В	. D	QTY	RATE (in Rs)	AMOUNT (i
A)	PART 'A' :- LABOUR PORTI	ON							
1	Cutting road surface for excavated stuff as directed in the following classifications (B	cluding ba	arricadir	g, dang	er lightin	na etc.	e		
a)	Asphalt road :	T		1		T			
	for pipeline trenches .	· Cum		240	1.2	0.:	86.40		
ii)	for linking pits	Cum	: 2	· · 1.5	2.4	0.3	1.		
2						Total =	88.56	258.50	22893.0
	Earth work excavation for princluding depositing on bank lighting and using sight rails are bailing out water at every 100 the following strata (BWSSB S	up to a le nd boning mtrs wh	ead of 3 rods inc erever r	0 mtrs i cluding s necessar	ncluding horing,	g dange strutting		ř	
(0-2 mtr depth	T	T	T	T				
i) f	or pipeline trenches	Cum		240	1.2	1.8	518.40		
	or linking pits	Cum	2	1.5	2.4	2.25	16.20		
						Total =	534.60		
	ded	uct for asp	halt roa	nd (Qty v	de item		-88.56		
					N	et Qty =	446.04		
e	do -In all soils mixed with bou xclusive of disintegrate rock					50%	223.02	89.10	19871.00
C	do - In disintegrated rock, soft comprising of lime stone, sand lock without resorting to blasting	hard shale	d mediu e, schies	m hard r t, fissure	ock,	30%	133.812	169.40	22668.00
) -	do - in hard rock by chistelling					20%	89.21	828.30	73891.00
pip sai for con mir bey 1:3 unle plat	anufacturing, providing, transposting, commissioning of SAW 3589-2001 with latest ame elding of joints to correct postes and materials with all least isfactory hydraulic test as perpressure test and working implete as per detailed specinimum 10 mm thick upto 6 yond 610 mm OD and outside over 50 x 50 mm weeld me oading of pipes for the following as noted below, including the rates are in clusive of all tax in arrangements for procuring 3, Item No. 1.9.4)	MS pipe ndments sition included and lift, r IS 3589-presuure cification value minimum esh of 13 ng diamet pailing out es and du	(Fe-410 including colors to cost of 2001 when the colors are colors and colors are colors.	g grade) g perfect est and of f all label ith latest factory ide CM inimum in thick of including specified wherev entractor	conforred tr linking conveya amned amned and situated to the conting gloading thickner necewill mail	ming to ng and nce of giving Iments e etc., inig of thick in CM g and ess of ssary ke his			

-	PARTICULARS	UNIT	NO'S	. L	В	D	QTY	RATE (in Rs)	AMOUNT (
	For 610 mm dia (OD) 7.9mm thick	Rmt		240			240.00	9852.70	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME
4	Manufacturing, providing, transp testing, commissioning of M conforming to IS 7322-1985 wit linking and welding suitable to setting into the pipe line syster gasketto proper alignment and cost of materials, all labour, tran etc., complete (Approved Data R	S spetth lates Spigon, inclutighten sportat	ecials It amend It amend It amend It is a solution of medials It is a solution of medials It is a solution of medials	of mini dments ockets o nd introd nuts an naterials	mum 8 including f CI pip ucing the dolts,	mm thk perfections es after e rubber including			
	for 600 mm dia size	set	2				2.00	15910.00	31820.0
1 i	Manufacturing, providing, transport testing, commissioning of MS conforming to 7322.1985 with linking and welding of joints to conveyance of materials with all I satisfactory hydraulic test as per for pressure test and working promplete as per detailed specification food grade epoxy painting of a micron, thick(after dry) over one approved make with minimum of minimum 25 mm thick coating in 13 gauge, including loading a category to suit PSC /MS/CI/AC/I all taxes and duties. The weight ining and coating to arrive at the	Special latest of correlation of CM 1 and unloading the coat of MS rate.	amenda ect pos d lift, co 39-2001 e both with ins d make of food cron thic 3 over s bading of pipes. T shell or	ments ir ition incomest of all I with late at factor ide linig with early grade of the control of pipes. The rates of the control of the cont	8mm the cluding control abour are st amnoring and so of two ach coat epoxy production of the form week for the form are including and are	perfectres and giving edments site etc., coats of of 250 rimer of outside ld mesh ollowing usive of disperse.			
In	The thickness of plate will be sp make his own arrangements for	procur	by the	engineer	(contra	ctor will			
S	SR 2008-09, P-33 , Item No. 1.9.4	1) For	Bends	er for te	sung) (t	377333			
a	SR 2008-09, P-33 , Item No. 1.9.4 bove 500 mm dia of pipe	gs [Bends	er for te	sung) (t	30000	750.00	101.20	75900.00
a 4	SR 2008-09, P-33 , Item No. 1.9.4	(gs 1.50*78	Bends 850=703	3 Kgs,	isung) (t		750.00	101.20	75900.00
P R bring incidence of the second of the sec	SR 2008-09, P-33, Item No. 1.9.4 bove 500 mm dia of pipe No's bend of 1.50 mtr length each (Vt=1):4 no's* 3.14*0.602*0.0079*	f) For (gs 1.50*78 1.	850=70: Total = oncrete e of apother a	3 Kgs, 750 Kgs of 1:2: oproved oproved s with a d / ste plasterir	4 propor gradation hard agg	tion for hard gregate and lift work,	750.00	101.20	75900.00
P R bring incidence of the second of the sec	SR 2008-09, P-33, Item No. 1.9.4 bove 500 mm dia of pipe No's bend of 1.50 mtr length each of 1.50 mtr length each of 1.50 mtr length each of 2) 600-X 150 mm branch = 4 providing and laying vibrated cer of cover with 20 mm and do roken granite, trap, basalt or with cluding cost of conveyance of cluding machine mixing, centre of conveyance of conveyance of cluding machine mixing, centre of conveyance of c	f) For (gs 1.50*78 1.	850=70: Total = oncrete e of apother a	3 Kgs, 750 Kgs of 1:2: oproved oproved s with a d / ste plasterir	4 propor gradation hard agg	tion for hard gregate and lift work,	750.00	6762.80	75900.00 365191.00
P R briming scoping and per mark KB	SR 2008-09, P-33, Item No. 1.9.4 bove 500 mm dia of pipe No's bend of 1.50 mtr length each of 1.50 mtr length each of 1.50 mtr length each of 2) 600-X 150 mm branch = 4 providing and laying vibrated cer of cover with 20 mm and do roken granite, trap, basalt or with cluding cost of conveyance of cluding machine mixing, centre of conveyance of conveyance of cluding machine mixing, centre of conveyance of c	th. 1.50*78 7 kgs; ment cown size the any of all ment grost of the control of	Bends 850=703 Total = Oncrete e of apother a	3 Kgs, 750 Kgs of 1:2: oproved oproved s with a d / ste plasterir orcement 3 t for RCC n, placing ith bindin ecessary ured and	4 propor gradation hard aggill lead a lead forming in Ct. (BWS: 1.8 C work in positing wire and comple paid) coecification and coecifica	tion for hard gregate and lift work, M 1:3 SB SR			

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人	PARTICULARS		NO'S	100	В	D.	QTY	RATE (in Rs)	AMOUNT (in Rs)
from	lling pipeline trenches trench excavation and yer of 15 cms thicknes	foundation s including	includir dispos	ng wate	ring, cons the surp	solidation lus earth			
with	all lead and lifts of 20 ml	trs (BWSS	B 5K 2	008-09,	P-5,I-	2)			
with	all lead and lifts of 20 ml	Cum	B 5R 2			tem 1+ 2	534.60	26.40	14113.00
	all lead and lifts of 20 ml		B SR 20			1.0	534.60	26.40	14113.00 255.00

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Chapter 7
Conclusion

CHAPTER 7 CONCLUSION

7.1 The Project Corridor is a part of Chord Road and is one of the busiest stretches in the City. The Project Corridor is located in North West Quadrant of Bangalore and connects NH - 4 at Yeshwanthapura on northern side with Mysore Road (SH - 17) on southern side and it starts at Manjunath Nagar Main Road Junction, which is 450m away from the Modi Hospital Junction, and ends at Chord Road - Magadi Road Junction. Such is the density of vehicles that the Traffic Signals have become redundant along this Corridor. Stretching around 10 km between Yeshwanthpur and Mysore Road, the peak hour traffic along the Chord Road Corridor is more than 6000 PCU / hr. This Road is not spared even on Holidays as it is the Gateway to Wonderla in Bidadi, Mysore, etc. on Southern Side and to Tumkur, Hassan, Chikmagalur, etc. on northern side. The movement of vehicles has increased on Chord Road as it connects NH - 4 to Mysore Road. The Study Area is located in Thickly Developed Residential and Commercial Area and is surrounded by some of the well know establishments like Yeshwanthpur Railway Station, Iskon Temple, Vivekananda College, Mother Teresa Hospital, Navarang Theatre, Modi Hospital, etc.

The National Highway Authority of India (NHAI) is developing Elevated Corridor along NH - 4, this Development will definitely will increase the afflux of Traffic in this Corridor. Further, in this Corridor, Metro Work is being carried upto Modi Hospital Junction on the northern side and Chord Road - Magadi Road Junction downwards on the southern side. But, this Metro Rail Facility will not cater to the need of the to and from Traffic between Yeshwanthpura and Mysore Road. Further, with the spurt in the economy, the Land Use Patterns of this Northern Part of the City Area have been changing at a very fast pace since 10 years. Many of the Self Containing Residential Areas in and around this Corridor, such as Rajajinagar, Mahalakshmi Layout, Malleshwaram, Basaveshwara Nagar, are being converted into Partial Commercial Establishments. With this change in the Land Use Pattern, Traffic along this Corridor has been increased considerably in last 10 years time. Many large Residential Site are being converted into Apartments / Flats, Mini Township (Brigade Gateway) in and around this Corridor and a site that would house either a family or two now will be able to house multiple number of families and with this the number of Vehicle / Traffic also will increase manifold in a couple of years. The existing Grade Separators along this Corridor (Flyover at Yeshwanthpura Circle, Underpass at Modi Hospital Junction and Underpass at Chord Road - Magadi Road Junction) are providing Uninterrupted, Seamless Traffic Flow along a part of this Corridor.

These being the Background, the Bruhath Bangalore Mahanagara Palike has proposed to construct Grade Separator at Major Junctions and to close Median at Minor Junctions with Appurtenant Link Improvements from Manjunath Nagar Main Road Junction to Chord Road – Magadi Road Junction along Chord Road covering a total of 6 Junctions (out of which, 4 Junctions have been taken for improvement) for a total length of 2.9 km in order to provide Uninterrupted, Seamless Traffic Flow and to Increase Level of Service along the Corridor.

7.2 Existing Junctions along the Project Corridor

The following Junctions are present along the Project Corridor.

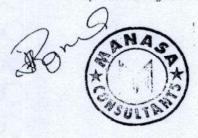
The following Junctions are present along the Project Corridor.

- Manjunath Nagar Main Road Junction Three Arm ('T' Shaped) Junction.
- Shivanagar 8th Main Road Junction Four Arm Junction.
- Shivanagar 1st Main Road Junction Four Arm Junction.
- Basaveshwara Nagar 1st Main Road Junction Three Arm ('T' Shaped) Junction.
- Junction near Fire Station Four Arm Junction.
- · Chord Road Magadi Road Junction Four Arm Junction.

7.3 Junctions proposed for Improvements

The following Junctions have been taken for the proposed Improvements.

- · Manjunath Nagar Main Road Junction.
- Shivanagar 8th Main Road Junction.
- Shivanagar 1st Main Road Junction.
- Basaveshwara Nagar 1st Main Road Junction.
- 7.4 For the proposed Corridor Improvement Scheme, the total Cost of the Project has been worked out as Rs. 5800.00 Lakh including Land Acquisition and Utility Shifting Cost.
- 7.5 To keep pace with the High Density of Traffic, it is Techno Economically Feasible to take up this Project along the mentioned stretches of Chord Road.



Chapter 8
Photographs

EXISTING VIEWS OF MANJUNATH NAGAR MAIN ROAD JUNCTION



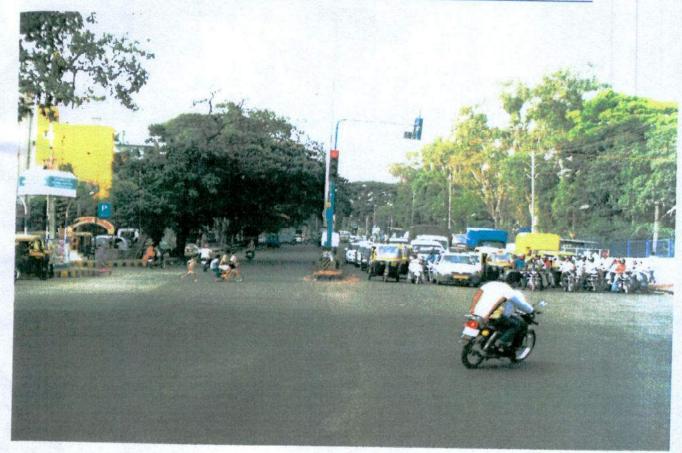


EXISTING VIEWS OF MANJUNATH NAGAR MAIN ROAD JUNCTION





EXISTING VIEWS OF SHIVANAGAR 1st MAIN ROAD JUNCTION





EXISTING VIEWS OF SHIVANAGAR 1st MAIN ROAD JUNCTION



