Preamble to BOQ

PREAMBLE TO BILL OF QUANTITIES

- 1. The bill of quantities is to be read, for the purpose of pricing, in conjunction with Specifications and Drawings.
- 2. No change in unit rate shall be allowed for any change in quantity or for any other reaso
- 3. Rates quoted shall be inclusive of all materials, labour, tools & tackles, power, w conveyance and all expenses, including all safety gadgets, adherence of safety etc., unl otherwise.
- 4. The prices inserted in the Bill of Quantities shall be all inclusive of value of the work des all costs and expenses which may be required in and for the construction of work descril with all general risks, liabilities and obligations set forth or implied in the document on v is to be based.
- 5. The quantities stated are to be considered as approximate only and the unit prices enter Quantities shall apply to the quantities actually executed. The quantities measured for t payment shall be limited to two decimals only
- 6. The Tenderer must quote his rate in specified column in the Bill of Quantities for each ite in words as well as in figures. The cost of items against which the tenderer has failed to price shall be deemed to have been covered by other rates and prices entered in the Bil
- 7. The total amount tendered for viz. the total obtained by adding up all the items in the Bi must be written in words as well as in figures.
- 8. Unless mentioned otherwise, all finishing of concrete surfaces shall be unformed finish.
- 9. The Tenderer shall specify the brand of different bought out items offered by him along v
- 10. The Tenderer shall affix his signature and the seal at the space provided in each Quantities and all pages of Tender document.
- 12. The Tenderer shall furnish the makes and details of special items such as water proofing sections, and the like along with the tender.

- 13.Reinforcing steel shall be procured directly from the main suppliers of primary manufact TISCO, SAIL, etc.
- 14. Contractor should furnish the mix design for all grades of concrete works included in Bill
- 15. The contractor shall make his own arrangement and include in the rates the cos excavated earth and debris without causing any infringements.
- 16.Discrepancy observed during evaluation of rates i.e., between amount written in written in figures, least of the two will be considered as final.
- 17.Re-steel used for laps, chairs, etc will not be measured for payment.
- 18.Irrespective of what is contained in different items of Bill of Quantities, surfaces excluding reinforcement shall be metalized with sealer coat on top.
- 19.Samples of all approved makes shall be submitted to the Engineer-in-charge and before the intended supply.
- 20.Various sizes, spacing etc., indicated under various items of work in BOQ are only indica are liable for minor modifications at the time of execution of work. The Contractor will n make any claim whatsoever for incorporating such changes ordered by Engineer-in-char
- 21. The guidelines for classification of soil shall be as follows:
 - a) <u>All kinds of</u> soil:

Any soil which generally yields to the application of picks and shovels, pha jumpers or any such ordinary excavating implements / excavators or organic soil, sand, turf loam, mud, clay, peat, stiff clay gravel, cobble stone etc. fall under this

(Note: Cobble stone is the rock fragment usually rounded or semi-rounded having diameter in any one direction between 80 & 300 mm)

b) <u>Ordinary rock</u>:

This shall include the type of rock and boulders, which may be quarried or split wi bars. Laterite, hard conglomerate and amygdaloidal basalts also come under this

c) <u>Hard ro</u>ck:

This shall include the type of rock or boulder for which quarrying or splitting requi chiseling, wedging or other suitable method where excavation is prohibited plant or blasting. All hard rock excavation shall be carried out only by diamond ro the like.

(NoteBouldeis a rockfragmentsuallyoundedby weatherind) sintegration development exploitation or abrasion by water or ice having minimum dimension in any direction than 300 mm).

- 22.Concreting of all structural elements shall be done by Ready Mix Concrete using Batchin mixer and concrete pump supplied by approved manufacturer. Rates quoted shall include admixtures, mix design & quality control tests for concrete etc.
- 23.'Alternate', under amount column means the particular item could be operated during e of similar item in the BOQ. The tenderer shall quote his rate for this item and i entered in the amount column.
- 24. The tenderers who submitted their offers shall be deemed to have acquainted th conditions such as current water table level up to which the ground water table will rise soil conditions, soil parameters, the existing utilities and other site constraints, etc. The the tenderers against various items in the schedule of quantities shall be inclusiv continuous bailing out water to the extent required, pumping, and making enabling work pumping/bailing and other related works.
- 25.The Successful tenderer, on the approval of the Engineer-in-charge shall dismantle structure, which comes within the site premises and cart away and disposing the debris spot to such a place where the same shall not cause any nuisance and shall be authorities concerned. The Successful tenderer shall exercise all diligence and car dismantling operations and shall get the dismantling scheme approved by the En before commencement of the work.
- 26.The successful tenderer shall keep the excavated surfaces absolutely dry during concreting and laying reinforcement bars. The surfaces shall continue to be kept dry till Engineer-In-Charge. The water shall not be allowed to come in contact with the green control final setting time of the concrete is over. The rate quoted by the tenderer for the works of shoring, strutting by sheet piling or any approved method as approved by the Engineer
- 27. The tenderers shall also note that the rates quoted shall also be inclusive of the cost of necessary to protect water supply lines, sewage lines, power and communication lines a structures wherever required.
- 28. The successful tenderer shall make all precautionary measures to ensure the safety and already constructed structural elements and the cost involved for such items of work sh be incidental.
- 29. If the existing roads used by the successful tenderer for the purpose of construction, the maintained under motorable conditions during entire contract period at his own c Engineer in Charge.
- 30. The successful tenderer shall be responsible to handover the surrounding areas construction in original condition and make good / rebuild / repair the structures

disturbed. The decision of the Engineer-in-Charge shall be final as to what is considered during construction.

- 31.Unless specified otherwise all measurements shall be taken in accordance with Indian st of Measurements of Building and Civil Engineering Works - IS: 1200.
- 32. The Contractor shall be responsible for the design of all Temporary / Enabling Works.
- 33. The Liaison Service shall be done by the contractor includes the following works:
 - Any Electricity Board, starting from getting approval of the drawing, upto servicing the getting the safety certificate.
 - ii) Preparation of detailed drawings required by the Electrical Inspectorate.
 - iii) Obtaining approval of drawings and installation, including carrying out modification Statutory Authorities
 - iv) Renewal of any temporary power supply connection during construction/ secur temporary power.
 - v) All incidental charges/expenses associated with the above work.
 - vi) High voltage testing by voltage Boosters, Relay calibration by secondary injection and Pre-Commission and De- commissioning test will have to be carried out at site. BDA will extend all assistance for the above works.
- 34. The installation price of switchboards, metering panels, DB's or any other it supply and fixing of supporting steel structures/MS channels, grouting of the same, or as required.
- 35.Any error in description or in quantity or omission of items from the contract shall no contract but shall be corrected and deemed to be a variation required by BDA.
- 36.Written approval shall be taken from the BDA, in case of using the material other than lis makes.
- 37.In case of temporary power required to execute the work in time, same shall be contractor in case of power cut by EB during the execution of work.
- 38. The contractor should provide all the required lighting samples to site to make trails and fixed for approval.
- 39.Guarantee period: The guarantee period for LED luminaries shall be for period security deposit corresponding to 5% of the LED luminaries cost will be refunded on exp guarantee period after successful completion & handing over of the entire work. drivers has protection CKT, if voltage goes above 300v ac , Driver will switch OF voltage comes at normal rated voltage automatically it will switch ON the luminaries.

40.Contractor's risks

a. All risks of loss or damage to physical property and of personal injury and death w during and in consequence of the performance of the contract other than the exce are the responsibility of the Contractor.

41.Approval by the employer

- a. The Contractor shall submit Specification and Electrical drawings showing the Temporar Works to the employer, hois to approve hemif they comply with the Specifications and Drawings.
- b. All electrical drawings prepared by the Contractor for the execution of the permanent Works, are subjected to prior approval by Employer before their use.
- 42. Safety
 - a. The Contractors shall be responsible for the safety of all activities on the s KPTCL./BESCOM/Electrical Inspectorate's safety manual.
- 43. Uncorrected defects
 - a. If the Contractor has not corrected Electrical equipments Defect within the time Employer's notice, the Employer will assess the cost of having the Defect corrected Contractor will pay this amount.
- 44. ADDITIONAL CONDITIONS OF CONTRACT
- 44.1 The specifications of the materials not covered in this document but to be used:
 - a. Shall confirm to the current specification adopted by KPTCL/BESCOM and relevant
 - b. For such of the materials for which KPTCL/BESCOM have not finalized the specific notavailable hespecifications such materials hall confirm latest elevares is specifications read with amendments, if any.
 - c. For any such materials, if bidder is not able to obtain the specifications from KPTC the same will be furnished by BDA on specific request by the bidder within a reasonable of the same will be furnished by BDA on specific request by the bidder within a reasonable of the same set of
- 45. Test on equipments / materials wherever insisted by BDA shall be conducted in CPRI in of BDA and test certificate to be issued by NABL/CPRI and other govt. certified agency. T should arrange for such tests and intimate BDA in 15 days advance. The unit to selectedy BDA.Materialsillbe accepted/earedor installationalyafterinspectionand submission of validity certificate by the contractor. All costs towards the above tests sha the Contractor.
- 46. Makes: The makes of the material shall be as follows:

66 KV UG cable : LS cable, Universal-unistar cable,KEI cable,KEC(RPG) cable. 11 KV 3 core U G Cable flat armoured dry-cured: Unistar, Universal, NICCON, CCI. RMU'S: M E I, ABB. Sneider. LT UG cable : SBEE, Unistar,Havells. Insulated wires: PVC insulated copper wires of makes Finolex, polycab, SBEE, Anchor LT & HT Insulators: BHEL, Jayashree. Aerial Bunched Cables: XLPE insulated cable of the makes Unistar, CCI, Nicco, SBEE.

- 47. The Contractor shall strictly follow Line-clear procedures of KPTCL/BESCOM while execution and all safety precautions shall be followed strictly. Contractor shall be solely responsible of any kind to their staff or the general public and loss of public property during execution.
- Statutory payment to KPTCL/ BESCOM / Electrical Inspectorate / BBMP etc., will be made the site and shall observe all the precautionary and safety measures throughout the exe work.
- 49. The contractor shall engage only qualified Engineer/ staff as per the requirement of IE F Inspectorate, Labour Commissioner and the workers shall be provided with all safety equip throughout the execution of work.
- 50.BDA will not be responsible for any unforeseen incidents, mishaps, loss to any practice accidents to the personnel engaged by the contractor and the general public during exercises.
- 51.Any dispute between the contractor and the staff/workers employed by the contractor sl settled as per the prevailing labour laws. BDA will not be responsible to intervene in the reserves the right to terminate the contractor due to any dispute between the contracto employed by the agency as per the terms of the contract.
- 52.All release of naterial sertaining KPTCL/BESCOM/BBMs Pallbe returned or respective authorities/stores.
- 53. Further LED luminaries shall conform to following Indian standards on LED.

16101: 2012	: General Lighting – LEDs and LED modules – terms and Definitions
16102(part 1): 20	18elf- Ballasted LED- Lamps for general Lighting Services Part 1 safety Requirements
16102(part 2): 20	1 9 elf- Ballasted LED- Lamps for general Lighting Services Part 2 safety Requirements
16103(part 1): 20	12EC Modules for general Lighting- Safety Requirements
15885(part 2/ S	ec 13) : 2012 Lamp Control Gear part 2 particular Requirements so 13 d.c or a.c Supplied Electronic Control gear for Led Module
16104 : 2012	: D.C or A.C. Supplied Electronic Control gear for LED Modules – Performance Requirements
16105 : 2012	: Method of Measurements of Lumen Maintenance of Solid – State Light (LED) Sources
16106: 2012	: Method of Electrical and photometric Measurements of Solid –Sta Light (LED) products
16108: 2012	: Photo biological Safety of Lamps and Lamp Systems