

SECTION - 9

ITEM RATE BOQ PRICE SCHEDULES (FINANCIAL BID)

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**BENGALURU SUBURBAN RAIL PROJECT (BSTP)
PRICE SCHEDULES (FINANCIAL BID)
ITEM RATE TENDER**

Name of Work:

Construction of Boundary wall around Akkupete depot of BSTP project

PREAMBLE TO BILL OF QUANTITIES

1. GENERAL REQUIREMENTS:

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Notice Inviting Tender, Particular Specifications, Tender Drawings, Schedule, Annexure, Addendums and corrigendum.
2. The quantities given in the "Bill of Quantities" are approximate and provisional and are given to provide a common basis for Bidding. The basis of payment will be the actual quantities of work executed at site, as measured and verified by the Engineer and valued at the accepted rates in the priced "Bill of Quantities", where applicable.
3. The bidder should quote his rate only in the Financial Bid / Price Bid Summary sheet provided in the Price bid section of the E-Tender Portal and nowhere else in the technical bid section.
4. The same shall be in Indian Rupees both in figures and in words.
5. If knowingly or unknowingly the rate is quoted / indicated anywhere in the Technical submission / uploading of the entire Bid document / Corrigendum / Addendum, the bid will be rejected outright and will not be considered for any further evaluation.
6. The quoted rates are for completed and finished items of work and complete in all respects. It will be deemed to have included all constructional plant, tools, machinery, labour, supervision, materials, fuel, oil, consumables, electric power, water, transportation, all leads and lifts, dewatering, facilities for quality control, all temporary works and false works, construction of temporary stores and buildings, fencing, watering, lighting, erection maintenance, night working, inspection facilities, safety measures at work sites/casting yard for workmen and road users, establishment and overhead charges, labour camps, insurance costs for labour and works, contractor's profit, all taxes, royalties, duties, cess and other levies will be payable, Custom tariff act etc. and other charges together with all general risks, liabilities and obligations set out or implied in the contract and including remedy of any defects during the Defect Liability Period, unless otherwise provided in BOQ. Applicable GST shall be paid extra.
7. Providing concrete for all works deemed to be inclusive of the cost towards production of concrete by Batching Plant, transit mixer, transportation of concrete with all leads and lifts, form work, shuttering including staging as required, pouring of concrete by pump/tower crane to all heights / depths, tremie or other approved means, compaction by vibrators, curing by approved means such as water, steam or curing compound and all labour, tools, plants, facilities for quality control, machinery required for execution of work complete in all respects including de-shuttering after completion of work.
8. The entire cost of complying with the provisions of the Contract shall be deemed to have been included in the quoted rates.

9. General directions and description of works and materials are not necessarily repeated or summarized in the Bill of Quantities.
10. The method of measurement of completed work for payment shall be in accordance with the requirements as stated in the individual sections of the Particular Specifications, Employer Requirements & Technical Specifications.
11. Errors will be corrected by the Employer for any arithmetical errors in computation or summation as indicated in Contract Document.
12. Bidder may please note that to perform this contract, nothing extra shall be payable on account of field constraints, availability of front, preparation of detailed scheme for taking necessary clearance and approval from the concerned authority and other local bodies etc.
13. Deleted.
14. Identified utilities & unidentified/ buried / hidden utilities (if any left-over) shall be shifted by contractors. Payment for such diversion will be made as extra item under KPWD schedules. If work is stopped due to unidentified / buried / hidden utilities, no claim shall be entertained on this account.
15. The Bidder's offer shall be inclusive of all taxes and duties payable by them, income Tax and any other statutory taxes (If any) excluding GST, will be deducted by the Employer in accordance with the prevailing taxation act, Income Tax Act and any other acts in force and in accordance with instructions issued by the Authorities, from time to time.
16. Rate quoted shall be exclusive of GST.
17. The item description is intended to briefly describe the work to be performed under that item and to identify associated work. It is not a full and complete description of the work to be performed. The Contractor shall carry out all the work necessary to meet the requirements of the Specification to achieve the intended performance.
18. All items of work mentioned in the Bill of Quantities shall be read and executed strictly in accordance with the description of the item in the Bill of Quantities, Technical Specifications, codes, requirement of the Statutory Authorities etc.
19. The Contractor is required to comply with all the applicable & latest codes and standards, statutory requirement, local, State & Central regulatory authorities as applicable. Complete liaison work related to all approvals, visits, documentation, drawings, expenses, official charges, handling charges etc., is deemed to be included in the offer and no extra payment shall be entertained under any pretext.
20. The rate for each item of work (above or below or at par) quoted included in the bill of quantities shall unless expressly stated otherwise includes cost of:
 - 20.1 All materials, fixing materials, accessories, hardware, operations, tools, equipment, consumables, and civil works wherever involved and incidentals required in preparation for in the full and entire execution and completion of the work called for in the item as per specification and drawings completely including any wastage of materials and labour.
 - 20.2 Making good all the damages, openings etc., to the civil works/structures done and cleaning while executing the works under this Contract.
 - 20.3 The rate also includes all charges like packing and forwarding charges, handling, loading, unloading, transportation, transit and other insurance, hoisting to all levels, setting and fixing in position, disposal of debris including all other labour, Liabilities, obligations and risks arising out of conditions of contract and Liasoning for obtaining approval from statutory & Local authorities.
 - 20.4 -Deleted-

- 20.5 In the event of conflict between the bill of quantities and other documents, the order of priority as indicated in clause 1.5 of Part B – Specific provisions of bid document Section 7 shall be applicable and interpretation of the Engineer in this shall be final and binding.
- 20.6 -Deleted-.
- 20.7 Supply of materials shall mean supply of materials at site. The rate for supply shall include all taxes, duties, octroi, and insurance, packing and forwarding charges, transportation and unloading at site.
- 20.8 The contractor shall submit the shop drawings, fabrication drawings with details., to the Engineer for approval prior to supply/commencement of such works. The approval of these drawings will be general and will not absolve the contractor of the responsibility of the correctness of these drawings. At least six copies of the approved drawings shall be submitted to the Engineer for their distribution to various agencies at site at no cost to the Employer.
- 20.9 The contractor must see the site conditions such as type of soil, locations etc., and take all factors into consideration while quoting in the BOQ as no extra cost will be allowed on any ground arising out of or relating to the site conditions.
- 20.10 Any error in description or in quantity or omission of items from the contract shall not violate this contract but shall be corrected and deemed to be a variation required by the Engineer.
- 20.11 All testing and calibrating charges for the Meters shall be included in the installation price of the Meter Cubicle.
- 20.12 -Deleted-.
- 20.13 The contractor shall take into account the expenses of pre-commissioning tests to be conducted as per specification of the complete installation by licensed agencies.
- 20.14 Deleted.
21. Important Notes to Bidders:
1. The bidder should quote the rates in Price Schedule in INR which shall be inclusive of all the taxes, duties, levies, cess, etc. Excluding GST.
 2. The bidder should quote the rate in the "Financial Bid" envelope of e-tender portal.
 3. For comparison of the quoted bid price by the bidders, the grand total of the quoted amount shall be taken into consideration.
 4. Employer reserves the right to omit / partially execute any items in any of the items of the price schedules during construction without any liability to either party.

2. EXPLANATORY NOTES FOR 'BILL OF QUANTITIES' (BOQ)

2.1 General

- 2.1.1 The Contract includes the following but is not limited to:
The revision of design, verification of site data, drawings, programs for execution, schedule of ordering, schedule of receipt.

2.2 – Deleted -

2.3 Tender Prices

The Tenderer's attention is drawn to the following facts while quoting the prices for the Contract:

- 2.3.1 The prices (above or below or at par) quoted in the Bill of Quantities shall be inclusive of all applicable duties and any other charges leviable excluding GST.

A BOCW cess at the rate as specified by 'The Building and Other Construction Workers Welfare Cess Act, 1996, of the Total Bill Amount shall be deducted from each Interim Payment Certificate (IPC) of the Contractor.

- 2.3.2 The prices (above or below or at par) quoted in the Bill of Quantities and accepted by the Employer shall be 'fixed' throughout the Contract Period and are not subject to variation on any account.

2.3.3 **DELETED**

2.3.4 **DELETED**

2.3.5 **DELETED**

2.3.6 **Record of Taxes & Duties**

The Contractor shall maintain complete records in respect of payments made by them for taxes and duties payable to various authorities (except Income Tax or Corporate Tax) and advise the Employer the summary of such payment every month in a format advised by the Employer during execution of the contract.

The detailed records shall however remain open for inspection by the Employer/ Engineer at any time and copies of the records shall be furnished as required by the Employer.

The amount payable/recoverable from the Contractor will generally be calculated based on these records along with supporting documents. However, Employer at his sole discretion, if not satisfied with the veracity of records or records are incomplete or otherwise, may separately determine the amount payable/recoverable from the contractor in accordance with the conditions of the Tender, which shall be final and binding.

The Contractor shall also maintain records of the imported components supplied to local manufacturers and actual utilization of the same in the manufacture of complete equipment. The Contractor shall be fully responsible for any loss or misuse of these components in manufacture of equipment's.

The contractor shall submit the copies of the monthly returns filed, once in three (3) months to ascertain the status of GST refunded claimed on account of inverted duty structure.

The Contractor shall furnish along with the 2nd and subsequent IPCs copies of all the purchases of Goods and Services made within the State of Karnataka in the format prescribed and furnish the details to the Employer, if any required, for claiming reimbursement of state taxes from the Govt. of Karnataka as per approved funding pattern for the project.

2.3.7 **Statutory Clearance**

The Contractor shall be solely responsible for discharging all the statutory payments to the authorities concerned including custom duty, IGST, GST and Income tax, etc.

2.4 Quantities

2.4.1 For the purpose of this Contract, all unit quantities given in the Bills of Quantities and in tender drawings are the estimated quantities (Tentative) of the Works and are intended in the first instance to provide a common basis for Tendering and Tender Evaluation. Quantities may vary as per the site conditions and actual quantity to be procured after preparation of shop drawings and approval of the same. When a Contract has been entered into, the function of the Priced Bill of Quantities is to provide for the valuation of the work executed. No alteration of any rate or price shall be allowed on account of any difference between the quantities billed and the actual quantities measured from the drawings.

2.4.2 The Tenderer shall make himself completely acquainted with all conditions, obligations, specifications, drawings, etc.; of the Tender Documents before quoting his prices. He shall have no right to claim any price revision on the basis of ignorance of the Tender Documents or local conditions, or to make any claims as regards the integrity of the unit prices of the Bill of Quantities.

2.5 Units and Currency

- 2.5.1 All sizes and quantities entered in the Bills of Quantities are in metric units.
- 2.5.2 The currency to be used in the Contract will be Indian Rupees only. The Tenderer shall fill in each column with unit rate or lump-sum as the case may be, for each item of the Bill of Quantity, on the basis of the Tender documents and pre-tender survey. The prices (including percentage above or below or at par) quoted in the Bill of Quantities are for completed and finished items of work and complete in all respects, it is considered to have included all constructional plant, tools, materials, machinery, labour, supervision, fuel, oil, consumables, electric power, water, transportation, all leads and lifts, dewatering, all temporary works, false work, form work, construction of temporary stores and buildings, fencing, watering, lighting, erection, maintenance, night working, inspection facilities, safety measures at worksites, road users overhead charges, labour camps, insurance costs for labour and works, overheads, profits etc.;
- 2.5.3 Any cutting/overwriting/striking off in Bill of Quantities shall be initialled by the authorized representative of the Tenderer before submission of Tender without which it will not be taken into consideration by the Employer.

2.6 Rates & Sums to be for Work Finished Complete

- 2.6.1 Tenderers shall be deemed to have read the Employer's Requirements and other parts of the Tender Documents and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices and shall be deemed to include the full scope of the Contract, including overheads and profits and shall bear a proper relationship to the cost of carrying out the work described.
- 2.6.2 Notwithstanding any limits that may be implied by the wording of the individual items and/or the explanations in the Preamble, the rates and prices, which are entered in the Bill of Quantities, shall be for the work finished complete in every respect.
- 2.6.3 The Tenderer shall be deemed to have taken full account of all requirements, liabilities, obligations and risks, whether expressed or implied, and to have priced the items accordingly. The Items in the Bills of Quantities are the only items against which payment will be made. The cost of any item of work not specifically described or measured in the Bills of Quantities but required for the execution of the Contract shall be included in the rates and prices for the measured items in the Bills of Quantities. The rates and prices shall therefore include for all incidental and contingent expenses and risks of every kind necessary to supply, install, test and commission (including Integrated Testing and Commissioning) complete, and remedying any defects in the whole of the Works in accordance with the Contract.

2.7 Allowances in Rates and Prices

- 2.7.1 Full allowance shall be made in the prices against the various items in the Bills of Quantities for all costs involved in performing the following except to the extent that work is specifically described and paid for in the Bills of Quantities. The list below is not exhaustive and the Tenderers are expected to take all costs involved while quoting the rates and prices that will not be subject to variation on any account.
- a) all setting out and final survey work;
 - b) temporary access roads and bridges, fencing, watching and security, lighting.
 - c) paying fees (subject to GCC / PCC clauses) and giving notices to Authorities;
 - d) payment of all patent rights and royalties;
 - e) reinstatement of the Site;
 - f) safety precautions and all measures to prevent erosion and suppress fire and other hazards;
 - g) interference to the Works by persons, vehicles, and the like being legitimate users of the facilities on or in the vicinity of the Site;
 - h) the protection and safety of the Employer trains and services;
 - i) the protection and safety of Railway trains and services on adjacent tracks;

- j) supplying, maintaining and removing on completion, the Contractors own accommodation, offices, depots, stores, workshops, transport, welfare services and other facilities including telephones and facsimile machines and all charges in connection therewith;
- k) the supply, inspection, testing, packaging and transportation of materials and of the Works as specified including the provision and use of equipment and arrangements for the Engineer's Inspectors and others;
- l) maintaining public thoroughfares and footpaths, and maintaining access upon existing recognised routes;
- m) providing, transporting to the Site, setting to work, operating (including all fuel and consumable stores), maintaining and removing from the Site upon completion all Construction Plant and Contractor's Equipment necessary for the execution of the Works and including the cost of all tests and other requirements in respect of such; plant and equipment;
- n) working adjacent to or across existing services and installations;
- o) complying with the requirements of the Employer in regard to Safety and Health, Quality Assurance, Environmental and project implementation plans and making periodical submissions;
- p) co-ordination and interference to the Works by the works of Designated Contractors and others employed by the Employer being legitimate users of the facilities on or in the vicinity of the Site;
- q) remedying of defects and shrinkage, and works of amendment, reconstruction, replacement of other faults, fair wear and tear excepted, during Defects Liability Periods;
- r) Insurance, including all risks in supply, erection, storage, transit, third party, Workmen's Compensation and others;
- s) All tools, and equipment required for all tests prior and after delivery and for testing and commissioning installed systems;
- t) Carrying out all modifications to the given drawings, preparing construction detailed drawings and supplying originals, copies, and electronic files in accordance with employer's requirement.
- u) Marine Insurance
- v) All risk Insurance after arrival of goods in India
- w) Custom clearance / Port Clearance (if applicable)
- x) Handling at Port of arrival in India (if applicable)
- y) Inland transportation from port of arrival or manufacturer's works to site of work
- z) Various bank guarantees / warranties/undertakings.

2.8 Tender Pricing

2.8.1 The Tenderer shall take regard of the actual site conditions and the estimated quantities entered in the Bill of Quantities. The Tenderer shall price his tender accordingly and the rates and prices entered against a line item shall be the full and only price paid for all work performed against that item except as described in the Tender Documents.

2.8.2 Not used.

2.8.3 The Tenderer shall quote the rates and prices in words as well as in figures. Any cutting/overwriting in Bill of Quantities shall be initialled by the authorized representative of the Tender.

2.8.4 Items against which no rates or prices are indicated in the Bill of Quantities, will not be paid for by Employer when executed and shall be deemed to have been covered in the rates of other item/s and prices in the Bill of Quantities.

2.9 Measurement and Payment

2.9.1 This Contract is primarily a re-measure contract with items that are described herein. For the re-measure items, the total price paid for a work item will be varied by the quantities actually performed. The quantities indicated in the BOQ and tender drawings are tentative quantity may vary as per the site conditions and actual quantity to be procured after preparation of shop drawings and approval of the same. The final quantities shall be based on quantities actually executed, measured and certified as per approved built drawings by the Engineer.

- 2.9.2 The measurement and payment described is for the purpose of making a valuation of the work acceptable to the Engineer, and Interim Payments to the Contractor, as work proceeds. All interim payments shall be without prejudice in accordance with relevant clause of GCC and PCC. The Works as executed will be measured for assessment of progress for interim payments in accordance with the method adopted in the relevant standard/Specification, the Bills of Quantities and under the items as set forth notwithstanding any custom to the contrary.
- 2.9.3 Deleted.
- 2.9.4 Notwithstanding anything stated herein, the Engineer retains the right to withhold payment on any pay item due for payment when the works to be performed are not performed or are not carried out to the Engineer's satisfaction in accordance with Specifications and Drawings.
- 2.9.5 Payment for items shall include for all costs incurred in procurement/manufacture, testing, inspection, shipping, hauling, off-loading, storing at site in Bangalore, installation, testing and commissioning including integrated testing and commissioning.
- 2.9.6 -Deleted-
- 2.9.7 -Deleted-.
- 2.10 -Deleted-.

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Section 9: Price Schedule (Financial Bid)**Name of Work:****Construction of Boundary wall around Periphery at Akkupete Depot of BSTP project.****SUMMARY OF ABSTRACT****SCHEDULE - A**

Sl.no	Description of Item	Unit	Quantity	Rate	Amount
1	Cleaning and grubbing road land including uprooting rank vegetation, grass bushes, shrubs, saplings and trees girth upto 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned including removal and disposal of top organic soil not exceeding 150mm in thickness complete as per specifications by mechanical means , In area of light jungle. MORTH specification no.201.	Ha	51.00		
2	Earth work excavation in Ordinary/hard soil for road work, minor drains, cable trench etc. Either mechanically or manually as per drawing and technical specification, Including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, back filling the excavation earth to the extent required and utilizing/transporting the remaining earth including all leads and lifts including cost of labour, materials and HOM etc., complete.				
a)	In all kinds of soil	Cum	2982.54		
3	Construction of sub-grade and earthen shoulders with approved material Gravel/Murum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller to 97% of proctors density	Cum	2032.66		

Sl.no	Description of Item	Unit	Quantity	Rate	Amount
	and minimum CSR value 10%) MORTH Specification No: 305				
4	Supplying, filling, spreading & levelling stone boulders of size range 5 cm to 20 cm , in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	364.72		
5	Providing rubble and sand filling in layers of 250 to 300 mm including cost of all materials, machinery, labour, watering, ramming and all other ancillary operations complete.	Cum	121.57		
6	Providing and laying in position cement concrete of specified proportion excluding cost of centring and shuttering - All works upto plinth level				
a)	Providing & laying plain cement concrete M20/20 grade in open foundation, stepped foundation, combined footing, raft foundation, retaining walls, return walls, walls, U/G tank, culverts, below pile cap, drains, floorings, below grade slabs, tie beams, basements, levelling course or any other works as directed by the Engineer, etc., complete using granite/ trap/ basalt aggregates and clean sieved approved sand including mixing mechanically and required dosage of admixture In concrete for obtaining required workability and as per specifications, approved drawings, laid In layers not exceeding 15cms thick layers, as per drawing including cost of all material, form work/ shuttering, centering, scaffolding, dewatering during concreting.; vibrating, compacting, hire charges of machinery, all lead and lift, loading, unloading, transporting, stacking, curing, finishing the exposed faces etc., complete.	Cum	183.70		
7	Providing & laying design mix M35/20 grade, reinforced cement concrete for following concrete works: Pile cap, Open Foundation / stepped foundation / Raft,/Plinth beam],Slabs, Column Heads,				

Sl.no	Description of Item	Unit	Quantity	Rate	Amount
	Stairs & Ramps , Walls etc. including excavation up to 4.0 m from lowest ground level through existing water bound macadam road / bituminous road / concrete road /soil/moor rum/ hard rock /soft rock old structures below ground as encountered of all thicknesses, dismantling other structures, dead utilities, dewatering, pumping and bailing out water, strutting and shoring, formwork, backfilling in foundation with good earth/quarry dust/sand watering, compacting with a vibratory plate compactor complete as per specifications. The. Cost shall also include cutting / chipping of pile up to cut off level or up to good concrete and built up of pile up to required level. The cost includes loading, unloading and disposal of surplus excavated material along with pile heads using covered trucks to contractor's dumping yard with all leads and lifts and as directed by the Engineer. The contractor has to ensure that during transportation, the carried material does not spill out. Reinforcement shall be paid separately under relevant item. Rate shall include cost of using required dosage of admixture in concrete for obtaining required workability as per approval of Engineer, curing of concrete 10% of the amount shall be withheld and amount shall be released after disposal of excavated material including pile heads at contractor's dumping yard.	Cum	953.92		
8	Providing and laying design mix M35/20 grade RCC in precast standard BSTP boundary wall panels of required size and thickness as per design and drawing with fluting pattern on one side and. exposed stone aggregate finish on other side including cost of centering and shuttering but excluding the cost of steel reinforcement and including form work, shuttering & moulds, laying,	Cum	562.12		

Sl.no	Description of Item	Unit	Quantity	Rate	Amount
	compacting by vibration & all work , hoisted and installed in all stages with necessary scaffolding with all lead & lifts etc. Note: 40% of the payment shall be released on completion of casting and curing to the satisfaction of Engineer and remaining 60% payment shall be on the completion of this work again to the satisfaction of Engineer.				
9	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6 to brick/ AAC masonry/ concrete block masonry/ concrete works for base of dadoing works with sand of approved quality. Rate includes cost of all materials, curing, scaffolding, labour, hire charges of machineries, with all leads & lift at all levels complete as per drawings, specifications and direction by the Engineer.				
a)	for columns	Sqm	3065.09		
10	Providing TMT-500/550O grade steel bar reinforcement (conforming to IS:1786,HYSD Fe 5000 grade) at all heights & depth including straightening bars, cutting, bending, hooking binding with approved quality 18gauge G.I binding wire, after placing in position tying, lapping and /or welding wherever required and anchoring to the adjoining members wherever necessary as per drawings (Laps , Hooks, spacer bars, standard bars, U-bars, chairs, bend deduction and Wastages shall not be measured and paid) including cost of all materials, bar bending charges, labour, lead & lifts etc., complete as per specifications and as directed including welding involved towards stray current protection effects as per the system approved by Engineer. This would include any additional Reinforcement provided for	MT	123.28		

Sl.no	Description of Item	Unit	Quantity	Rate	Amount
	earthing requirement also.Note: (i) Cost is inclusive of 18 gauge GI binding wire (2 ply) in diamond form at each reinforcement junction.(ii) For pile reinforcement, welding of lap joint shall be without extra cost.(iii) Lap joints are permitted for bar dia. less than 16 mm (including 16mm),else mechanical couplers are to be provided, where in rebar ends shall be cold forged with die.(iv) The cost quoted should cover all welding and providing mechanical couplers, all types of laps, standard laps, spacer bar, Hooks, U-bar, chair, bend deduction as required and nothing extra is payable on this account.				
11	Providing and fixing of punched tape concertina coils of 600mm diameter over the boundary wall with "J" and "U" clips etc., complete as per manufactures specifications (Each coil to spread to 5.4 meter) including all needed barbed tapes I barbed wires for completing the work. a) Coil	RM	2300		
12	Providing and fixing steel work in built up tubular (round, Square or rectangular hollow tubes etc. Including cutting, hoisting, fixing in position and applying a priming coat of steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes including cost of materials labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-charge. ISA 50x50x6mm	Kg	5595.08		