

SECTION - 9

ITEM RATE BOQ PRICE SCHEDULES (FINANCIAL BID)

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

Tender No: KRIDE/2023-24/BD/WORK_INDENT19

Name of Work:

“Shifting of Signaling & Telecommunication underground utilities in KSR Bengaluru city Jn. to Yelahanka section via Yeshwanthpur, Lottegollahali of Bangalore Division to facilitate Bangalore Suburban Railway Project (BSRP) Corridor-1A”.

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, preparation of design and drawings pertaining to the casting yard, staging, shuttering, form work, stacking yard etc., establishment and overhead charges, labour camps, insurance costs for labour and works, contractor's profit, ail taxes, royalties, duties, cess and other levies payable as per GST, 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. Reinforcement (supply, cutting, bending, placing in position, tying etc.) Shall not be paid separately unless otherwise mentioned in BOQ.
7. The entire cost of complying with the provisions of the Contract shall be deemed to have been included in the quoted rates.
8. General directions and description of works and materials are not necessarily repeated or summarized in the Bill of Quantities.

9. 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.
10. Errors will be corrected by the Employer for any arithmetical errors in computation or summation as indicated in Contract Document.
11. 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.
12. The Bidder's offer shall be inclusive of all taxes, GST and duties payable by them, income Tax and any other statutory taxes (If any), 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.
13. Rate quoted shall be inclusive of GST both on materials as well as works contract and will not be reimbursed.
14. 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.
15. 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.
16. 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.
17. The rate for each item of work and lump sum amount for each schedule quoted included in the bill of quantities shall unless expressly stated otherwise includes cost of:
 - 17.1 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.
 - 17.2 Making good all the damages, openings etc., to the civil works/structures done and cleaning while executing the works under this Contract.
 - 17.3 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 Liaisoning for obtaining approval from CEIG/KSFES, Electrical Inspectorate & Local authorities.
 - 17.4 All requirements of system whether such of them are mentioned in the item or not the specifications and drawings are to be read as complimentary to and part of the schedule of quantities and any work called for in one shall be taken as required for all.
 - 17.5 In the event of conflict between the bill of quantities and other documents, the most stringent shall apply and interpretation of the Engineer in this shall be final and binding.
 - 17.6 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.

- 17.7 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.
- 17.8 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.
- 17.9 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.

18. Important Notes to Bidders:

1. The bidder should quote his total amount in Summary of Price Schedule -A against Schedule -B, Schedule -C, Schedule - D and Schedule – H Schedule-J, Schedule-K, Schedule-L & Schedule-N. In the financial bid section, the bidders should enter in the template provided for abstract of amount of all schedules (Summary sheet) by filling in the last column of quoted INR against each of the schedules which shall be inclusive of all the taxes, duties, levies, cess, etc. including GST.
2. For comparison of the quoted bid price by the bidders, the grand total of the quoted amount from all Schedules (i.e. **schedule A,B,C,D,H,J,K,L & N**) shall be taken into consideration.
3. Employer reserves the right to omit / partially execute any items in any of the **Schedules** during construction without any liability to either party.
4. In the financial bid section, the bidders should enter in the template provided for abstract of amount of all schedules (Summary sheet) by filling in the last column of quoted INR against each of the schedules which shall be inclusive of all the taxes, duties, levies, cess, etc. including GST.

2. **EXPLANATORY NOTES FOR E&M '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.
- 2.1.2 The procurement of the whole equipment including:
a) Spare parts,
b) Tools, testing equipment,
- 2.1.3 The on-site erection and setting to work of the electrical fixed installations and technical buildings described in the Technical Specification.
- 2.1.4 The in-plant testing, and acceptance tests.
- 2.1.5 The on-site testing.
- 2.1.6 The commissioning of installation and acceptance protocols.
- 2.1.7 The supply of relevant documentation mainly including:
a) Installation, execution, and as-made drawings,
b) Test procedures,
c) Maintenance operation manuals: The Contractor is required to submit soft copies of all the documents,
- 2.1.8 Training in India and Overseas (if required).

2.2 Procurement Program

The procurement of the material shall be planned in a phased manner such that the material reaches site in time. The Contractor shall submit a detailed works program as per the provisions of the General Specification and Technical Specification and obtain approval from the Engineer before commencing with the procurement of material.

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 (lump sum to be quoted for each schedule) quoted in the Bill of Quantities shall be inclusive of all applicable duties and any other charges leviable including GST payable.

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 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.

2.3.3 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.

2.3.4 Deleted

2.3.5 Deleted

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 (lump sum to be quoted against each schedule) 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.;

2.6 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 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 All bills shall be submitted by prime bidder only (to whom contract has been awarded) to the authority mentioned in Preamble. Subject to any deductions or recovery which the K RIDE may be entitled to make under contract, the Contractor will be entitled to be paid from time to time by way of 'on account payment' for supply of goods and 'progress payment' for works as in the opinion of the Engineer he has executed in terms of Contract.

2.9.2 ON ACCOUNT PAYMENT FOR SUPPLY ITEMS:

"On Account Payment" for supply of equipment, materials will be made on receipt of equipment/ materials, as indicated in Schedule **A, B, C, D, H, J, K, L & N** by K-RIDE. On Account payments made will subsequently be adjusted against payments due on Provisional Acceptance or Final Acceptance.

90% (Ninety Percent) of the value of each consignment shall be paid on receipt of materials at K-RIDE nominated site duly accepted by the Purchaser's Engineer and on production of the following documents:

- i) Acknowledgement of receipt of materials by Engineer.
- ii) Original Inspection certificates issued by Inspecting Officer.
- iii) Manufacturer's inspection certificate/warranty certificate that the materials are in accordance with the specifications of the contract.
- iv) Challan/ Invoice in duplicate.
- v) Indemnity Bond in the approved form (see Section 10).

10% (Ten percent) value of the supply items shall be paid after the successful completion of installation, testing & commissioning of whole system covering all materials and services as per schedule of works and issue of "Provisional Acceptance Certificate" by Engineer.

100% payment against Supply of Spares, Measuring **Instruments**, Tool Kits, and if any similar items, which is not part of installation and commissioning, will be made on receipt of materials, acceptance of the same and production of documents listed in Para above.

2.9.3 PROGRESS PAYMENT FOR EXECUTION ITEMS:

Progress payment shall be made separately for each pure execution item/ sub-item of work given in the schedule **A, B, C, D, H, J, K, L & N** as follows.

75% (Seventy five percent) of the progress payment for the items in schedule of work for trenching and protective works and cable laying activities shall be made (cable trenching, refilling, laying of cables, cable trench on bridges/culverts). The balance **15% (Fifteen percent)** of the progress payment for these items shall be made after terminations and end to end testing from relay room to function end are completed and jointly tested by the Engineer to his satisfaction.

For all other items of work (**schedule A, B, C, D, H, J, K, L & N**), progress payment for **90% (ninety percent)** value of the work/ services will be made after the works are completed to full satisfaction of K RIDE.

10% value of the works/ services completed shall be made after the issue of Provisional Acceptance Certificate and submission of all 'As made' documents of the relevant schedules if applicable.

2.9.4 ON ACCOUNT PAYMENT FOR SUPPLY AND INSTALLATION ITEMS:

'On Account' payments in respect of items involving supply and installation, 75% of the accepted rate of the schedule item will be paid on complete supply of the equipment listed in the schedule after due inspection, against production of indemnity bond and other formalities as applicable to other supply items in the schedule. The remaining 15% payment will be released only after successful installation of the equipment under the schedule. The balance 10% will be released on submission of all 'As made' documents of the relevant schedule if applicable.

2.9.5 FINAL PAYMENT:

On the basis of provisional acceptance certificate issued by the Engineer for all the works in all the sections covered in this contract, the final bill for the balance payment for each item/sub-item of work shall be submitted by the Contractor along with a clear "NO CLAIM CERTIFICATE". The provisional acceptance certificate shall be issued by the Engineer only when he has accepted the work wholly after conducting the acceptance tests on each item of work.

2.9.6 FINAL SETTLEMENT:

On expiry of the maintenance period/warranty period and issue of certificate by Engineer-in-charge regarding satisfactory completion of work and final acceptance of the entire installations in all respect, **Performance Guarantee/Security Deposit** will be released to the Contractor after adjustment of any dues payable by the contractor.

2.9.7 DEDUCTION FROM ON ACCOUNT PAYMENT BILLS

All costs, damages or expenses, which K-RIDE may have paid or incurred, which under the provisions of contract are Contractor's obligations, will be deducted by K-RIDE from progress payment bills/invoice of Contractor, as and when it is understood that such an expense have been incurred or paid for.

All such claims of K-RIDE shall, however, be duly supported by appropriate and certified vouchers, receipts or explanations as are available to enable the Contractor to identify such claims.

2.10 PRICE ADJUSTMENT: applicable for all schedules

2.10.1 PRICE ADJUSTMENT CLAUSE FOR WORKS CONTRACTS: Refer Particular Conditions of Contract, Clause: Price adjustment clause

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***For Detailed BOQ please refer to Section-12 (Detailed Bill of Quantities with reference to this Pricing Schedule)**