



KOLKATA METRO RAIL CORPORATION LIMITED

East West Corridor of Kolkata Metro

**CONTRACT: Architectural Finishing and Plumbing works for 6
Elevated stations of East West Corridor of Kolkata Metro.**

CONTRACT NO: EWSAF

TENDER DOCUMENTS

VOLUME 1

NOTICE INVITING TENDER

INSTRUCTION TO TENDERERS

SPECIAL CONDITIONS OF CONTRACT

KOLKATA METRO RAIL CORPORATION LTD.

4TH FLOOR, HRBC BHAWAN

MUNSHI PREMCHAND SARANI

KOLKATA 700021.



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VOLUME 1

NOTICE INVITING TENDER

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NOTICE INVITING TENDER

1.1 GENERAL

1.1.1 Name of Work:

KOLKATA Metro Rail Corporation (KMRC) Ltd. invites sealed tenders from eligible Technically Qualified tenderers for the CONTRACT-EWSAF: Architectural finishing works and Plumbing works for 6 Elevated stations of East West Corridor of Kolkata Metro. The detailed Scope of the work is provided in clause 2.0 and the Site information in Clause 3.0.

1.1.2 Key details:

Cost of Tender Document	₹ 10,000 Payment should be made in the form of a Demand Draft issued by a Scheduled Commercial Bank in favour of "Kolkata Metro Rail Corporation Limited" payable at Kolkata
Tender Security amount	₹ 50.00 lacs
Completion period of the Work	24 months
Tender documents on sale	From 30.11.2010 to 10.12.2010 (between 09.00 Hrs to 1700 Hrs) on working days)
Last date of Seeking Clarification	20.12.2010
Pre-bid Meeting	24.12.2010 at 14.30 Hrs at KMRCL Conference Hall (5 th Floor HRBC Bhavan)
Last date of issuing addendum	29.12.2010
Date & time of Submission of Tender	11 January 2011 (between 1100 Hrs and 1500 Hrs)
Date & time of opening of Tender	11 January 2011 at 15.30 Hrs
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents	Chief Engineer (II) Kolkata Metro Rail Corporation Ltd., 4 th Floor, HRBC Bhavan, Munshi Premchand Sarani, Kolkata 700 021

1.1.3 Points to be noted

1.1.3.1 Works envisaged under this contract are required to be completed in all respects within the period of completion mentioned above.

1.1.3.2 Tenders will be received in **two separate packets**, i.e. (1) Technical Bids and (2) Financial Bids. **Financial Bids of only Technically Qualified Bidders would be opened.**

1.1.3.3 Tenders are required to furnish data for execution of works as specified in **Appendix I of ITT**. The Tender documents consist of:

1.1.4 Volume 1

- Notice Inviting Tender (NIT)
- Instructions to Tenderers (ITT)
- Special Conditions of Contract (SCC)

Volume 2

- General Specifications
- Special Specifications

Volume 3 (Drawings)

- Tender Drawings **(To be supplied in CD-ROM)**

Volume 4

- Pricing Document

Following two documents form part of tender document. The work is to be carried out in accordance with GCC & all provisions of conditions of contract of SHE shall be strictly followed. The tenderers while quoting their rates must carefully consider all the requirements of these documents:

- General conditions of contract – construction of finishing works.
- Conditions of contract on Safety, Health & Environment (SHE).

These documents will form integral part of Contract Agreement also.

1.1.5 All Tenderers are hereby cautioned that tenders containing any material deviation or reservations and/or minor deviation **without quoting the cost of withdrawal** shall be considered as non-responsive and shall be liable to be rejected.

- 1.1.6 **Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances**
- 1.1.7 Applicant must not have been blacklisted or deregistered by any govt. agencies or public sector undertaking during last 10 years. Also the applicant must not have rescinded after award of contract. An undertaking to this effect be furnish alongwith tender submission.
- 1.1.8 Prices are inclusive of all taxes, duties, cess, insurance etc. **including Service tax, W.B. V.A.T and Works Contract Tax.**
- 1.1.9 Tenders shall be valid for a **period of 150 days** from the date of submission of Tenders and shall be accompanied with a tender security of the requisite amount as per **FORM B** of ITT in the form of a Bank Guarantee from a Scheduled Commercial Bank in India.

KMRC reserves the right to accept or reject any or all proposals without assigning any reasons, No tenderer shall have any cause of action or claim against the KMRC for rejection of his proposal.

Chief Engineer - II
Kolkata Metro Rail Corporation Ltd.

SCOPE OF WORK

2.0 GENERAL

Name of Work

Contract EWSAF: Architectural finishing works and Plumbing works for 6 Elevated stations of East West Corridor of Kolkata Metro.

2.1 WORK CONTENT

2.1.1 Brief Scope

The scope of work, inter-alia, includes the following but not limited to:

- A. Architectural finishing works and Plumbing works for the 6 elevated stations. Names of the stations are as follows:

- i. SALT LAKE STADIUM
- ii. BENGAL CHEMICAL
- iii. CITY CENTRE
- iv. CENTRAL PARK
- v. KARUNAMOYEE
- vi. SALT LAKE SECTOR-V

Finishing works shall also include submission/audio visual presentation of any computer simulation, graphics to illustrate the works/ arrangement.

These shall consist of, but not limited to all materials, labour, equipment's, tools, plants and necessary machinery as required to completely execute all the works related to Architectural finishes.

- i. All wall treatments including plastering, cladding, tiling and painting.
- ii. Flooring work with Kota stone/marble/granite & ceramic tiles etc. as specified at various locations.
- iii. Cavity flooring on pedestal supports as specified.
- iv. Veneering to walls and columns using kota stone/marble/granite/ceramic tiles/glass mosaic tiles in column and walls as specified.
- v. Aluminium/pre-laminated particle bounded doors with aluminium frames, aluminium windows with glazing and steel doors with steel frames.
- vi. Railing, handrails, balustrades in mild steel/stainless steel as specified.
- vii. Gates-Rolling shutters and steel gates with architectural elements e.g. fins, etc.
- viii. Paints shall be synthetic enamel, distemper, oil bound distemper, plastic/acrylic emulsion, water proofing cement paste and any other as specified.
- ix. Site development works i/c grading, precast concrete/interlocking tiles, paver blocks, kerb stones, bituminous road, water bodies, mounds, etc.

- B Plumbing (Public Health Engineering) works like water supply, sanitary and drainage. Plumbing & sanitary works for toilets and drinking water coolers for staff and handicaps including provision of water tanks, treatments, boosting and installation of various sanitary fixtures and appliances as per requirement, soil & waste pipe and disposal of sewage into MCD sewer line or by other alternative method as per BOQ.
- Plumbing works including the below listed works, but not limited to:
- a. Sanitary fixtures and fittings for the entire Station building.
 - b. Internal Soil, Waste and vent piping.
 - c. Internal water supply systems for Drinking & Flushing.
 - d. External Water distribution systems, from Municipal water/ indicated source nearby.
 - e. External sewerage/storm water lines including connection to municipal sewer/storm water line.
 - f. Connections to all mechanical equipments as per requirements.
 - g. Materials and components not specifically mentioned in the specification, but necessary for satisfactory installation and operation of the system mentioned therein shall be deemed to have been included in the scope of work of this specification.
- C. Any other item of work as may be required to be carried out for completing the finishing and Plumbing works for elevated station including all necessary interfaces works with KMRC & its authorized station contractor and system-wide contractors in all respects in accordance with the provisions of the Contract.
- 2.1.2 The value of the work shall be on item rates accepted in letter of acceptance subject to such additions thereto or deductions there from as may be made under the provisions of the Contract.
- The rates are inclusive of all cost but not limited to the cost such as for Plants, Equipments, tools, all types of labour, supervision, all materials from the source of supplies as approved by Engineer/Employer including all lead and lifts, transport, all temporary works, erection, maintenance, contractors profits & establishment/overheads together with preparation of designs and drawings etc, all general risks, taxes, royalties, duties, cess, octroi and other levies, insurance liabilities and all other obligations set out or implied in the contract for completion of work except otherwise specified in Bill of Quantities.
- 2.2 **INSPECTION**
- KMRC may appoint an independent agency to ensure the quality checking of all finishing works. The Contractor shall ensure the complete co-operation with the agency to perform their work satisfactorily. In addition KMRC also reserves right to undertake quality check and inspection directly by itself.
- 2.4 **REFERENCE TO THE STANDARD CODES OF PRACTICE**
- 2.4.1 All Standards, Technical Specifications and Codes of practice referred to shall be latest editions including all applicable official amendments and revisions. The Contractor shall make available at site all relevant Indian Standard Codes of practice and IRSC & IRC Codes as applicable.
- 2.4.2 Wherever Indian Standards do not cover some particular aspects of design/construct

relevant British German Standards will be referred to. The Contractor shall make available at site such standard codes of practice.

2.4.3 In case of discrepancy among Standard codes of practice, Technical Specifications and provisions in sub clauses in this NIT, the **order of precedence** will be as below :

- i) Provision in NIT
- ii) Technical Specifications,
- iii) CPWD specifications
- iv) Standard Codes of Practice.

In case of discrepancy among Standard Codes of Practice, the order of precedence will be IRS, IRC, IS, BS, DIN

2.5 DIMENSIONS

2.5.1 As regards errors, omissions and discrepancies in Specifications and Drawings, relevant clause of Special Conditions of Contract and Schedule of Dimensions will apply.

2.5.2 The levels, measurements and other information concerning the existing site as shown on the conceptual / layout drawings are believed to be correct, but the Contractor should verify them for himself and also examine the nature of the ground as no claim or allowance whatsoever will be entertained on account of any errors or omissions in the levels or strata turning out different from what is shown on the drawings.

2.6 DELETED

2.7 ASSOCIATED WORKS

Works to be performed shall also include all general works preparatory to the construction and works of any kind necessary for the due and satisfactory construction, completion and maintenance of the works to the intent and meaning of the drawings adopted and technical specifications, to best Engineering standards and orders that may be issued by the Engineer from time to time, compliance by the agency with all Conditions of Contract, supply of all materials, apparatus, plants, equipment, tools, fuel, water, strutting, timbering, transport, offices, stores, workshop, staff, labour and the provision of proper and sufficient protective works, diversion, temporary fencing, lighting and watching required for the safety of the public and protection of works on adjoining land; first –aid equipment, sanitary accommodation for the staff and workmen, effecting and maintenance of all insurances, the payment of all wages, salaries, fees, royalties, duties or the other charges arising out of the erection of works and the regular clearance of rubbish, clearing up, leaving the site perfect and tidy on completion.

2.8 DRAWINGS

Tender Drawings are provided as Volume 3 : Drawings in CD –ROM. Good For Construction drawings for the finishing work of the elevated stations will be issued before execution. However, the shop drawings as applicable will have to be prepared and submitted by the Contractor for approval.

2.9 TIME SCHEDULE

The agency shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall **completion period of 24 months**. The detailed programme in the form of a quantified bar chart or CPM network shall include all activities starting from design to completion.

2.10 TRAFFIC MANAGEMENT

The Contractor shall make the detailed traffic diversion plans, wherever required, in consultation with Kolkata Traffic Police. The work is to be executed with proper liaison with Kolkata Traffic Police. Necessary assistance will be given by KMRC. The scheme should be such that minimum of two lanes of traffic on each direction of the road should be available for the smooth flow of traffic. The Contractor should inspect the site. The Contractor shall also strengthen the road where the diversions are planned by widening, repairing to the road surface etc at his cost.

2.11 The tender price as mentioned in Clause 5.0 of Instructions to Tenderers (ITT) shall include all the above listed items in the scope of the work (Clause 2.1 to 2.10).

2.12 For eligibility requirements, refer Clause 2.0 of ITT.

SITE INFORMATION

3.1 WORK SITE

- 3.1.1 The Project site is located in and around the Salt Lake City of Kolkata (W.B). The location of the work and the general site particulars are shown in the Street level plans in the Drawings Volume of tender document.
- 3.1.2 The elevated stations form part of East west Corridor of Kolkata Metro Rail Project.
- 3.1.3 The Contractor shall plan his works keeping in view restriction of approach and availability of space and time.

3.2 GENERAL CLIMATIC CONDITIONS

- 3.2.2 The area in which the work lies is coastal and mostly plain terrain. This area lies in the tropic zone and hence the climate is also tropical
- 3.2.3 Annual mean temperature is 26.8 °C and monthly mean temperatures varies from 19 °C to 30 °C. The recorded highest and lowest temperatures in the past 10 years are 45.8 degree Celsius and 12.4 degree Celsius respectively.
- 3.2.4 Summer season is from March to June and winter season is from November to Feb.
- 3.2.5 Mean average annual rainfall in the area over a five-year period is of the order of 1235 mm, a good portion of which is concentrated during July to mid September, when about 75% of the annual rainfall occurs. The heaviest rainfall recorded during 24-hour period is 391 mm.

3.3 SEISMIC ZONE

Kolkata falls in Seismic Zone III.