



JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED

1st Floor, Administrative Building Wing - A, Bhriugu Path,

Mansarovar Metro Depot, Jaipur - 302020

CIN: U60221RJ2010SGC030630

Tel: No. 0141- 2822780

Website: transport.rajasthan.gov.in/jmrc email: dp@jaipurmetrorail.in



No.- F.7(C-352)/JMRC/ Com Opening 1B/2019/ **434**

Dated: 01.10.2020
20

Head of Department,
Department of Civil Engineering,
Indian Institute of Technology, Roorkee,
Roorkee-247667 Distt. Haridwar,
Uttrakhand, India.

Kind attention : Dr. Satyendra Mittal

Sub: Request for Thirrd Party Technical Audit by IIT Roorkee for 2 Nos Bored Tunnels of Jaipur Metro Phase 1-B Project to confirm adequacy of structural strength/Integrity/ Quality of tunneling works during all adverse conditions.

Dear Sir,

Commissioner of Metro Railway Safety, Western Circle, Mumbai has inspected this section from 16-18th March, 2020 and issued the authorization for commencing public carriage of passengers. He has also advised JMRC for the following:

"To confirm adequacy of structural strength/Integrity/ Quality of tunneling works during all adverse conditions, third party audit should be carried out from IIT."

JMRC requests IIT Roorkee to take up this "Thirty Party Audit of Tunnels section to confirm adequacy of structural Strength/integrity/Quality of tunneling work during all adverse conditions" and submit your financial proposal as per the terms of conditions of the Enclosed terms of reference latest by **2/11/2020** upto 15:00 Hrs at placed mentioned below:

**Director (Project),
Jaipur Metro Rail Corporation Limited,
1st Floor, Administrative Building Wing - A, Bhriugu Path,
Mansarovar Metro Depot, Jaipur - 302020**

Thanking you.

Yours sincerely,

(M.K. Singh)

Director (Project)

0141-2822780

1. Notice Inviting Bids (NIB)

JMRC hereby invite proposal on Single Source BID for Third Party Audit by IIT for the Tunnelling work executed under Phase-1B Project of Jaipur Metro Rail Corporation.

BID Notice reference No: F7(C-352)/JMRC/Com. Opening 1B/2019 dated 20/10/2020

Bid Submission Deadline: On all working days upto 15:00 Hrs of 2/11/2020

Opening of Bid: 2/11/2020 at 15:30 Hrs

Description of Assignment : Third Party Audit Report by IIT for the Tunnelling work executed under Phase-1B Project of Jaipur Metro Rail Corporation.

Project Name/Title : Jaipur Metro Rail Project for Phase 1B

BID Type : Single Source Tender

Proposal should be submitted at the following address:

**JMRC Project Directorate
1stFloor, A-Wing, Admin Building,
Bhriugu Path, Mansarovar Depot, Jaipur – 302020.**


08/10/2020
Director (Project)
Jaipur Metro Rail Corporation
Jaipur

2. Instructions to Bidders (ITB)

- 2.1 Bidder is required to submit the proposal with all requisite documents listed under 'Checklist' in sealed envelope.
- 2.2 Bidder shall submit all the relevant documents duly attested to establish the proof for qualification.
- 2.3 This bid is a single stage-single envelop bidding system.
- 2.4 Bidder shall sign a contract agreement with JMRC after the award of BID.

3. Bidding Form (Format of Financial Offer)

SN	Work	Offered Price
1.	Third Party Audit Report by IIT for the Tunnelling work executed under Phase-1B Project of Jaipur Metro Rail Corporation as per attached Terms of Reference (ToR)	
	GST (to be paid by the Corporation)	
	Grand Total	

Signature & Name with Address of the Professional

38
ED/C/JMR

4. Condition of Contract (Terms of Reference)

TERMS OF REFERENCE

1. Introduction & Objective of Audit

- 1.1 Jaipur Metro Rail Corporation Ltd. (JMRC), hereinafter referred to **the "Corporation"**, is a Special Purpose Vehicle (SPV) formed by Government of Rajasthan, as a wholly owned State Enterprise for execution of the Jaipur Metro Rail Project.
- 1.2 The Corporation has already commissioned Phase 1A from Mansarovar to Chandpole and commercial opening of Phase-1B from Chandpole to Badi Chaupar shall being started on 20.09.2020.
- 1.3 The safety inspection of Phase-1B section has been done on 16-18 March 2020 by Commissioner of Metro Railway Safety, Western Circle, Mumbai and issued the authorization for commencing public carriage of passengers.
- 1.4 Jaipur Metro Rail Project Phase-1B is entirely underground and located in the heritage walled city of Jaipur covering a length of 2.01 km, consisting of two underground stations i.e. Chhoti Chaupar and Badi Chaupar. These station along with the existing operational section of Phase-1A are connected near Chandpole underground stations with 1525.85 m Bored Twin Tunnels (5.80 meter inner dia) arrangement.
- 1.5 Due to the sensitiveness of the tunnelling work, Commissioner of Metro Railway Safety (CMRS) has advised Jaipur Metro to carry out Third Party Audit of tunnelling work from IIT to confirm adequacy of structural strength, integrity, quality of tunnelling works during all adverse condition.
- 1.6 To implement these works, services of experienced Professionals of Indian Institute of Technology (IIT) is required those are capable in getting the work done so that the compliance of CMRS will be submitted.

2. Scope of Work and Duties of the Professional:

- 2.1 The scope of work would include evaluation of the design of 2 Nos. Bored Tunnels, field inspection by IIT team and carried out required test to confirm adequacy of structural strength, integrity, quality of tunnelling works during all adverse condition and submitting the Audit report within 2 month of getting clear commercial order from JMRC.

38.

2.2 The scope of the work in accordance with these Terms of References (ToR) includes working and maintains close co-ordination at field level so as to ensure consistent and timely execution of work.

2.3 Details of 2 Nos. Bored tunnel from Chandpole to Badi Chaupar as under:

Tunnelling work has been carried by erecting pre-cast segmental lining using tunnel boring machine (TBM). The Twin Bored Tunnel are connected with 5 nos. cross passage of 1.2 x 2.1 m. The length of bored tunnel from Chandpole to Chhoti Chaupar is 905.12 m and length of bored tunnel from Chhhoti Chaupar to Badi Chaupar is 620.73 m. The depth of the tunnel invert varies in between 11m to 19m from ground level in the section.

M/s Continental Engineering Corporation, Taiwan has executed the work of tunnel. Omikron Kappa, Greece is the structural design consultant and TBM by Robbins, USA was used for Tunnelling Work. Details of salient features enclosed as Annexure-A.

3. Professional Qualifications:

3.1 Professional must have vast experience of auditing of Underground Tunnel work on behalf of IIT.

3.2 Professional must be a Professor/Faculty of IIT and having Structure/Geotechnical background.

4. Commencement of Work:

4.1 The Professional shall commence his audit work with the date of issue of LOA (Letter of Acceptance) and submitting the Audit Report within 2 Month of LOA (Letter of Acceptance).

5. Financial Proposal

5.1 In preparing the Financial Proposal, the Professional is expected to take into account the requirements and conditions of the TOR. The Professional shall indicate all costs associated with the work, JMRC will not provide any accommodation, expenses for boarding, lodging, travel etc

6. Payment Schedule

6.1 The charges for Third Party audit work will be paid after the issue of Letter of Acceptance (LOA) as an advance payment of work. The applicable GST will be borne by Jaipur Metro Rail Corporation Ltd.

32

7. Conflict of Interest

The Corporation requires that the Professional must provide his services with a professional objective and impartial manner and at all times hold the Corporation's interests paramount, avoid conflicts with his other assignments or interests.

I have read, understand and hereby accept the Term of Reference (TOR).

Signature & Name
of the Professional

38

Signature & Name
of the Authorised Signatory

5. Submission Checklist(to be filled and submitted)

SN	Documentation / Requirement	Yes	No	If "No" Reason
1	Signed Bid Document (Page 1 to 2)	<input type="checkbox"/>	<input type="checkbox"/>	
2	Signed Bidding Form (Page 3)	<input type="checkbox"/>	<input type="checkbox"/>	
3	Signed Condition of Contract (Page 4 to 6)	<input type="checkbox"/>	<input type="checkbox"/>	

All other information and documentations that we have not provided automatically implies our fully compliance with the requirements, terms and conditions of the RFQ.

Full Name:

Signature: _____

Date Signed:

32.