



उत्तर प्रदेश मेट्रो रेल कॉर्पोरेशन लि०

UTTAR PRADESH METRO RAIL CORPORATION LTD.

(Formerly Known as Lucknow Metro Rail Corporation Ltd.)
 (भारत सरकार एवं उत्तर प्रदेश सरकार का एक संयुक्त उपक्रम)
 (A JOINT VENTURE OF GOVT. OF INDIA & GOVT. OF U.P.)

No. UPMRC/CE-Contract/ AGKNPSG-01/2022-23


Dated:06.09 2023

ADDENDUM-02

Tender Title/Name of work: Tender AGKNPSG-01: Manufacturing, Supply, Installation, Testing and Commissioning of Signage and Graphics for 06 Nos. of Elevated Stations, 07 Nos. of Underground Stations and 01 No. Depot from Sikandra to Taj East Gate (Agra MRTS-Corridor 1) for Agra Metro Rail Project and 5 Nos. of Elevated Stations, 07 Nos. of Underground Stations from Chunniganj Station to Naubasta Station (Kanpur MRTS-Corridor 1) for Kanpur Metro Rail Project.

Addendum-02 along with Annexure of above tender is being issued and uploaded on CPP Portal.

For any further modifications/changes (if any), bidders are advised to stay updated on e-tendering portal (<https://etenders.gov.in/e procure/app>) for information please.


 (S.N.Jha)

CE/ Contract

Summary Sheet of Addendum No.-02: Tender AGKNPSG-01

Tender AGKNPSG-01: Manufacturing, Supply, Installation, Testing and Commissioning of Signage and Graphics for 06 Nos. of Elevated Stations, 07 Nos. of Underground Stations and 01 No. Depot from Sikandra to Taj East Gate (Agra MRTS-Corridor 1) for Agra Metro Rail Project and 5 Nos. of Elevated Stations, 07 Nos. of Underground Stations from Chunniganj Station to Naubasta Station (Kanpur MRTS-Corridor 1) for Kanpur Metro Rail Project.

S. NO.	Existing Clause / Pg. No.	Clause in Existing Tender Document	Revised Clause	Revised Clause placed as Annexure/ Pg. No.
1	Appendix 6 of FOT/ Vol.-1, Page 74	Note: Tenderer's authorized representative shall be deemed to have authority of the tenderer to receive and deliver any correspondence and attend meetings with DMRC related to the tender.	Note: Tenderer's authorized representative shall be deemed to have authority of the tenderer to receive and deliver any correspondence and attend meetings with DMRC UPMRC related to the tender.	Annexure 01 of Addendum-02, Page 74R
2	Appendix 25 of FOT/ Vol.-1, Page 97	a) EMD/Tender Security will be refunded through NEFT/ RTGS/ IMPS/ DD/ Bankers Cheque/ any other mode of payment, in the name of firm and bank account mentioned in this appendix, which shall be of same firm and account through which EMD/Tender Security has been paid to DMRC.	a) EMD/Tender Security will be refunded through NEFT/ RTGS/ IMPS/ DD/ Bankers Cheque/ any other mode of payment, in the name of firm and bank account Mentioned in this appendix, which shall be of same firm and account through which EMD/Tender Security has been paid to DMRC UPMRC .	Annexure 02 of Addendum-02, Page 97R
3	Appendix 12 of FOT/ Vol.-1, Page 82	We further undertake that the aforesaid tender drawings and documents prepared by Delhi Metro Rail Corporation Limited shall not be used in whole, in part or in any altered form on any other project, scheme, design or proposal that the joint venture, the joint venture parent companies or sub-contractors of the joint venture are, or will be involved with either in India or any other country.	We further undertake that the aforesaid tender drawings and documents prepared by Delhi Uttar Pradesh Metro Rail Corporation Limited shall not be used in whole, in part or in any altered form on any other project, scheme, design or proposal that the joint venture, the joint venture parent companies or sub-contractors of the joint venture are, or will be involved with either in India or any other country.	Annexure 03 of Addendum-02, Page 82R
4	Clause 2 of Employer's Requirement/Scope of Work/Vol.-3, Page- 2	-	<u>m. False ceiling at some stations are already installed. The signage contractor shall interface properly with civil contractor so that no damage to false ceiling occurs. Puncturing and capping shall be provided by signage contractor. However any damage occurring due to his/her work then it will be the responsibility of the signage contractor to repair/replace in coordination with false ceiling contractor.</u>	Annexure 04 of Addendum-02, Page 2R
5	Appendix 1 of Employer's Requirement/Vol.-3, Page- 10 & 11		*Contract Key dates and completion dates has been amended and attached.	Annexure 05 of Addendum-02, Page 10R & 11R

S. NO.	Existing Clause / Pg. No.	Clause in Existing Tender Document	Revised Clause	Revised Clause placed as Annexure/ Pg. No.
6	Clause 2.(3). A of Employer's Requirement/Vol.-3, Page- 4	A. Aluminum profile: Aluminum profile to be of Alloy 6063 with wall thickness of 2 mm_Test for mechanical strength to be done as per IS 1608.	A. Aluminum profile: Aluminum profile to be of Alloy 6063 with wall thickness of 2mm 3 mm (as specified in BOQ) Test for mechanical strength to be done as per IS 1608.	Annexure 06 of Addendum-02, Page 3R
5	Clause 2.(3). G of Employer's Requirement/Vol.-3, Page- 4	G. Polycarbonate: 2 mm thick Opal white polycarbonate sheet of make GE, Axel or equivalent. Material test certificate (MTC) provided by the manufacturer is acceptable, provided it is accompanied with a letter to vendor specifying the purchased quantity of the approved brand by the signage contractor. The MTC to clearly state that the polycarbonate sheet conforms to all the properties mentioned in the technical specification of the tender. The manufacturer's representative may be invited for review of installed signage.	G. Polycarbonate: 2 mm 4 mm/ 3 mm (as specified in BOQ) thick Opal white polycarbonate sheet of make GE, Axel or equivalent. Material test certificate (MTC) provided by the manufacturer is acceptable, provided it is accompanied with a letter to vendor specifying the purchased quantity of the approved brand by the signage contractor. The MTC to clearly state that the polycarbonate sheet conforms to all the properties mentioned in the technical specification of the tender. The manufacturer's representative may be invited for review of installed signage.	Annexure 07 of Addendum-02, Page 4R
6	Clause 1.5 of Technical Specifications/Vol.-4, Page- 3	-	<u>1.5.2 Aluminium extrusions shall be factory made and no cutting or fabrication of aluminium frame shall be allowed at site.</u>	Annexure 08 of Addendum-02, Page 3R

**FORM OF TENDER - APPENDIX 6
GENERAL INFORMATION ABOUT THE TENDERER**

A. TENDERER INFORMATION SHEET		
Tenderer's Legal Name		
Legal status of the Tenderer	Sole Proprietorship Firm / Partnership Firm / Private Limited Company / Public Limited Company / Joint Venture / Consortium (Please tick one)	
In case of JV/Consortium, Legal name of each partner with percentage participation (also provide information of each member in separate sheet (page 2 of 2))	Legal Name of JV/Consortium member	% participation
	1.	
	2.	
	3.	
Lead member of JV/Consortium		
Tenderer's legal address in India, telephone numbers, fax numbers, email address for communication		
Tenderer's authorized signatory (name, designation, address, contact no.)		
Tenderer's authorized representative (name, designation, address, contact no.)		
<p>FOLLOWING NEEDS TO BE SUBMITTED BY THE TENDERER: (by each member in case of JV/consortium) :</p> <ul style="list-style-type: none"> a) Affidavit in case of Proprietary firm. b) Partnership Deed in case of partnership firm. c) Memorandum & Article of Association in case of a Public/Private limited company. d) In case of JV/Consortium, MOU/Agreement (duly notarized) entered into by the joint venture / consortium members, containing intended percentage participation, nomination of Lead Member and division of responsibility to clearly define the work of each member etc. e) Authorization/POA in favour of authorized signatory of tenderer to sign the tender, and also in favour of authorized representative of each member in case of JV/Consortium. <p>Note: Tenderer's authorized representative shall be deemed to have authority of the tenderer to receive and deliver any correspondence and attend meetings with <u>DMRC UPMRC</u> related to the tender.</p>		

FORM OF TENDER- Appendix- 25

Details of Bank Account for refund of Tender Security/EMD

(Applicable if EMD/Tender Security deposited through Demand Draft/

Banker's Cheque/ RTGS/ NEFT/ IMPS)

1. Name of the firm/ Bidder:
2. Complete Address:
3. Name of the Bank:
4. Branch:
5. Address of the Bank Branch:
6. Name of the account holder in bank:
7. Account Type:
8. Account Number:
9. IFS Code of the bank Branch:
10. Whether a copy of cancelled Cheque of the Bidder/Firm submitted: Yes or No (Please tick)
(A copy of cancelled cheque to be enclosed).

Signature of the Authorized person of the Bidder with seal & Date

Notes:-

- a) EMD/Tender Security will be refunded through NEFT/ RTGS/ IMPS/ DD/ Bankers Cheque/ any other mode of payment, in the name of firm and bank account mentioned in this appendix, which shall be of same firm and account through which EMD/Tender Security has been paid to ~~DMRC~~ **UPMRC**.
- b) EMD/Tender Security shall be paid in compliance with ITT Clause C18.1.2 / C18.1.3

FORM OF TENDER- APPENDIX-12
[As per Clause C2.2 (m)] COPYRIGHT UNDERTAKING

To:

Date

The Chief Engineer/ Contract
Uttar Pradesh Metro Rail Corporation
Administrative Building,
Vipin Khand, Gomti Nagar,
Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal,
Lucknow-226010;

LETTER OF UNDERTAKING

We, _____ (name of tenderer / joint venture) hereby undertake that the downloaded tender documents and drawings as a necessary part of our preparation of this tender, shall be used solely for the preparation of the tender and that if the tender is successful, shall be used solely for the design of the temporary and permanent works.

We further undertake that the aforesaid tender drawings and documents prepared by ~~Delhi~~ **Uttar Pradesh** Metro Rail Corporation Limited shall not be used in whole, in part or in any altered form on any other project, scheme, design or proposal that the joint venture, the joint venture parent companies or sub-contractors of the joint venture are, or will be involved with either in India or any other country.

Signed.....

For and on behalf of
(Name of tender / joint venture)

and other specified applications.

- c. Provision and installation of required ducting/conduits, electrical work and cabling to power source associated with illuminated signage limited to the availability of power source within 5 m distance from the location of sign. All cabling, ducting and conducting required up to 'Power Source' from external source including power fittings, boards, switches etc. will not be in the scope of this contract. Here Power Source means the electrical board or switch where signage contractor is required to connect the cable /wire for electrical connection of illuminated signs.
- d. Minor civil works associated with foundations to signage and underground cabling or modifications required for installation of the signage's and restoring to original (pre-work) structures/finishes.
- e. Final coordination of the station signage layouts given at tender stage with the civil and system wide contractors.
- f. Co-ordination with the Civil and system wide contractors on the mounting and the switching and power arrangements of the signage, both during the shop drawing and production and installation phases of the contract.
- g. Programming of the manufacture and installation of the signage.
- h. Preparation of shop drawings and working drawings, fabrication methods, samples mock ups and prototypes, and 'As installed' drawings.
- i. Testing and commissioning.
- j. Supervise and protect all works related to the signage until handing over to the Employer.
- k. Corrections in graphics due to Spelling and Arrow direction errors as per site conditions.
- l. Maintenance for specified period.
- m. **False ceiling at some stations are already installed. The signage contractor shall interface properly with civil contractor so that no damage to false ceiling occurs. Puncturing and capping shall be provided by signage contractor. However any damage occurring due to his/her work then it will be the responsibility of the signage contractor to repair/replace in coordination with false ceiling contractor.**

(2) Concrete Works:

- a) Tools and plant: Contractor has to arrange Concrete mixer machine, Vibrator and proper Plywood shuttering to produce good quality of concrete foundation of all external signage works. Other required T&P will have to be provided as per the direction of 'Engineer' at site.
- b) Finishing: Finishing of all civil works has to be done properly as per the Technical specification and skilled masons have to be engaged by the contractor as per

EMPLOYER'S REQUIREMENTS

APPENDIX 1

CONTRACT KEY DATES AND COMPLETION DATES

S.no.	Key Date	Description of Works	Date of completion
1.	KD-01	<p>Signage Presentation</p> <ol style="list-style-type: none"> 1. Preliminary Design 2. Methodology of Signage Design – Incoming and outgoing strategy, Font selection, graphics and artwork, 3D options, Signage layouts and signage schedules. 3. Production stage methodology 4. Installation methodology 5. Safety and Quality procedures 6. Staff deployment matrix. 	2 weeks from LOA
2.	KD-02	<p>Pre-Final Design Submission</p> <ol style="list-style-type: none"> 1. Pre-Final Design. 2. Final Methodology of Signage Design – Incoming and outgoing strategy, Font selection, graphics and artwork, 3D options, Signage layouts and signage schedules and BOQ 3. Final Installation methodology 4. Shop details of signage. 5. Electrical points layout with power requirement. 6. Samples of graphical artwork, suspenders, signage box in actual scale and material. Working prototype 7. Safety and Quality procedures 8. Works program submission for site works. 	4 weeks from LOA
3.	KD-03	<p>Final Shop drawings submission consisting of:</p> <ol style="list-style-type: none"> 1. Signage GFC submission of drawings with power requirements. 2. Signage schedules 3. Signage Artwork 4. Signage fixing details for typical and specific conditions 5. Signage delivery list with codes. 	<p>7 weeks from LOA</p> <p>(Station wise submissions)</p> <p><u>6 weeks from LOA</u></p>
4.	KD-04	<p>Commencement of works at site</p> <ol style="list-style-type: none"> 1. Site office & store establishment 2. Deployment of site staff. 3. Start of signage location marking at site and 1st 	<p>9 weeks from LOA</p> <p><u>8 weeks from LOA</u></p>

AGKNPSG-01: Manufacturing, Supply, Installation, Testing and Commissioning of Signage and Graphics for 06 Nos. of Elevated Stations, 07 Nos. of Underground Stations and 01 No. Depot from Sikandra to Taj East Gate (Agra MRTS-Corridor 1) for Agra Metro Rail Project and 5 Nos. of Elevated Stations, 07 Nos. of Underground Stations from Chunniganj Station to Naubasta Station (Kanpur MRTS-Corridor 1) for Kanpur Metro Rail Project.

ANNEXURE- 5 of Addendum-02 Page 2 of 2

		degree fix i.e.	
5.	KD-05	Product inspection at factory 1. Product inspection of suspenders, boxes, sign plates, powder coated material quality and screen printing quality checks. 2. Final product check of signage boxes prior to despatch.	12 weeks from LOA. <u>10 weeks from LOA</u>
6.	KD-06	Completion of signage works at site for 3 elevated stations (Taj east gate to Basai) and PAC Depot for Agra Metro.	16 weeks from LOA. <u>12 weeks from LOA</u>
7.	KD-07	Completion of signage works at site for 3 underground stations (Taj Mahal to Jama Masjid) for Agra Metro.	16 weeks from LOA. <u>12 weeks from LOA</u>
8.	KD-08	Completion of signage works at site for 4 underground stations (Chunniganj to Nayaganj) for Kanpur Metro.	20 weeks from LOA.
9	KD-09	Completion of signage works at site for 3 underground stations and 5 elevated stations (Kanpur Central to Naubasta) for Kanpur Metro.	54 weeks from LOA.
10	KD-10	Completion of signage works at site for 4 underground stations and 3 elevated stations (Medical College to Sikandra) for Agra Metro. <u>Completion of signage works at site for 4 underground stations (Medical College to RBS) for Agra Metro.</u>	94 weeks from LOA. <u>44 weeks from LOA</u>
<u>11</u>	<u>KD-11</u>	Completion of signage works for 3 elevated stations (ISBT to Sikandra) for Agra Metro	<u>94 weeks from LOA</u>
	<u>Note:</u>	<u>Signage contractor is bound to complete his scope of works six (06) months beyond the respective KD in case of delay in providing access at site without any additional cost.</u>	

the satisfaction of 'Engineer'.

(3) Fixing of Signage using HILTI Fasteners:

Fixing of Signage over floor, wall and column using HILTI Fasteners is to be done under supervision and certification from HILTI organization. Contractor is to make arrangement for this.

I. Contractor's Site Office:

Site office with all the facility as mentioned in clause 44 of Special Condition of Contract have to be provided by the Contractor.

II. Testing of the materials:

Contractor has to arrange testing of material / signage samples in the laboratory as specified below.

All tests to be done through NABL (National Accreditation Board for Testing and Calibration Laboratories) accredited laboratory.

- A. Aluminum profile: Aluminum profile to be of Alloy 6063 with wall thickness of ~~2mm~~ **3 mm (as specified in BOQ)** Test for mechanical strength to be done as per IS 1608.
- B. Aluminium End Caps: To be of alloy 6063 with wall thickness of 6mm. Test for mechanical strength to be done as per relevant IS 1608.
- C. Anodizing: The quality of anodized finish shall not be less than grade AC-10 of IS1868. Anodic coating on aluminium to be tested as per IS 5523
- D. Powder coating over MS pipe: Pure polyester powder of Berger/ Interpon/ Hard castle/ Nero coat to a minimum thickness of 75 microns.

The powder coating to be Grade A as per IS13871 and tested according to the column 4 of Table 1 (Requirements of powder coating) of IS13871.

- E. LED and Driver: White LED light as per technical specification of the tender are to be used: Material test certificate (MTC) provided by the manufacturer is acceptable, provided it is accompanied with a letter to vendor specifying the purchased quantity of the approved brand by the signage contractor.

The MTC to clearly state that these products conform to all the properties mentioned in the technical specification of the tender.

The manufacturer's representative may be invited for review of installed signage.

- F. Wire: Wire to be minimum 2.5 Sq.mm and shall be LSZH, PVC insulated 1.1 KV grade with multi-stranded copper conductor.

Material test certificate (MTC) provided by the manufacturer is acceptable, provided it is accompanied with a letter to vendor specifying the purchased quantity of the approved brand by the signage contractor.

The MTC to clearly state that the product conforms to all the properties mentioned in the technical specification of the tender.

The manufacturer's representative may be invited for review of installed signage.

- G. Polycarbonate: ~~2 mm~~ **4 mm/ 3 mm (as specified in BOQ)** thick Opal white polycarbonate sheet of make GE, Axel or equivalent. Material test certificate (MTC) provided by the manufacturer is acceptable, provided it is accompanied with a letter to vendor specifying the purchased quantity of the approved brand by the signage contractor. The MTC to clearly state that the polycarbonate sheet conforms to all the properties mentioned in the technical specification of the tender. The manufacturer's representative may be invited for review of installed signage.
- H. Vinyl: Vinyl to be of make 3M (3630 series) or equivalent products of Samsung, LG only. Material test certificate (MTC) provided by the manufacturer is acceptable, provided it is accompanied with a letter to vendor specifying the purchased quantity of the approved brand by the signage contractor. The MTC to clearly state that the product conforms to all the properties mentioned in the technical specification of the contract. The manufacturer's representative may be invited for review of installed signage.
- I. Test for Index of protection: The signage assembly to be tested for ingress of dust and water for the following rating.

I. IP 52

II. IP 65

III. Quality

All the materials used in the works shall be of the best quality of their respective kinds as specified herein obtained from sources and suppliers approved by the Engineer and shall comply strictly with the tests prescribed in the Technical Specifications/ Codes of Practice.

IV. Sampling and Testing

In addition to test certificates, samples of all materials proposed to be employed in permanent works shall be submitted to the Engineer when called for. In such cases, materials will not be brought to the site without prior approval of the Engineer.

- (ii) Transparency - Rating "R" of Table 2 of IS-14443.
- (iii) Colour - Opal White.
- (iv) Coating - Rating "UV" of Table 2 of IS-14443.
- (v) Weight - Min. 1.2 Kg per Sq.m. per mm thickness
- (vi) Dart Drop Impact - >200 NM.
- (vii) Tensile strength at break ->70 N/mm².
- (viii) Flexural modulus - Equal to or more than 2500 N/mm².
- (ix) Light transmissions - Equal to or more than 35%.
- (x) Flame retardancy - Rating UL94HB of Table 3 of IS-14443
- (xi) Sheet shall not be scratch resistant.

1.4.2 Fabrication and installation of polycarbonate sheets shall be as specified in "Annex A – Code of good fabricating practices" of IS-14443-1997.

1.4.3 The tolerances in the width, length & thickness of sheet shall be as specified in Note 2 on page 3 of IS -14443-1997.

1.4.4 The sampling & testing of sheets for the properties given above shall be as per provisions of IS-14443-1997.

1.4.5 The polycarbonate sheet shall be in conformity to the panel widths and sizes shown in the drawings as well as to shape/ profile in plan and elevation. Nothing extra shall whatsoever be payable on this account.

1.5 Aluminum Plates and Sections

1.5.1 Aluminum plates and sections shall conform to aluminum alloy of grade 63400 WP of IS-733.

1.5.2 Aluminium extrusions shall be factory made and no cutting or fabrication of aluminium frame shall be allowed at site.

1.6 CRCA M. S. Sheets

1.6.1 The CRCA mild M.S sheets to be used in the work shall conform to IS 513 - normal D--grade type mild.

1.7 Designed EPDM gaskets of required thickness and width manufactured by Hanu Industries/Anand Lescuyer or equivalent shall be provided.

1.8 Dash Fasteners of required diameter and length manufactured by HILTI/ FISCHER or equivalent shall be provided. The Contractor shall make arrangements with the Dash Fastener suppliers –HILTI/ FISCHER or other approved suppliers to carry out random pull out tests at site of work to the satisfaction and directions of Engineer-in-charge.

1.9 Anodized Aluminium

1.9.1 Aluminum with an anodic coating, produced by an electrolytic oxidation process in which the surface of the aluminum is covered with a coating, generally an oxide, to