

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD**  
**(CIN No. U40109MH2005SGC153646)**

<p><b>From</b> The Chief Engineer (C&amp;M), 5<sup>th</sup> Floor, A-Wing, Prakashganga, C-19, "E" Block, Bandra – Kurla Complex, Bandra (East), Mumbai – 400 051. Tel: 022-2659 5125 (O)/022-2659 5124 (P) E-mail: cecm@mahatransco.in</p>	<p><b>To</b> <b>M/s Transrail Lighting Limited</b> <b>546, Lambent IT Park, Harihar Nagar,</b> <b>Beltarodi Road, Besa,</b> <b>Nagpur-440034</b></p> <p><b>Email:-</b> <a href="mailto:amol.wankhede@transrailighting.com">amol.wankhede@transrailighting.com</a></p>
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MSETCL/CO/CE(C&M)/SE(Tender)/T-1908/TransRail/ **04339** Date: **23 OCT 2020**

**Sub:** Letter of Award for “Establishment of 220/33 kV Substation at Khed City(Retwadi) & LILO on 220kV Kathapur-Lonikand-I line at 220kV Khed City (Retwadi) S/S.-5.94km (220 kV D/C line on M/C Tower) against SRM e tender No. T-1908 (RFx. No. 6000000693) under Pune Zone”.

- Ref:**
- 1) SRM e -Tender No. T-1908/MSETCL/CO/SE(Tender) (RFx No. 6000000693)
  - 2) Your Response No. 4000065575 against subject tender.
  - 3) Scheme B.R. No. 131/44 dt 02.11.2018
  - 4) Tender acceptance B.R. No.139/08 dtd 12.12.2019
  - 5) MERC approval – MERC/Capex/MSETCL/2020-21/E-Letter dtd 31.08.2020.

Dear Sir,

In connection with above subject, we are pleased to inform you that your above referred offer for the work of establishment of of 220/33 kV Substation at Khed City(Retwadi) along-with associated transmission lines under Pune zone on turnkey basis has been accepted. The details are as follows.

<b>Description of works</b>	<b>Final Price quoted in Rs.</b>
Supply,ETC and Civil work of equipments and materials for the work of establishment of 220/33 kV Substation at Khed City(Retwadi) along-with associated transmission lines under Pune zone on turnkey basis for following scope of work:- 1) Establishment of 220/33 kV Substation at Khed City(Retwadi) 2) Work of construction LILO on 220kV Kathapur-Lonikand-I line at 220kV Khed City (Retwadi) S/S.-5.94km (220 kV D/C line on M/C Tower)	<p><b>Supply</b> - Rs.26,43,05,461.27 <b>ETC</b> - Rs. 7,54,37,866.94 <b>Civil</b> - Rs 12,13,74,968.62</p>
	<b>Total -Rs.46,11,18,296.83</b> (Including all Taxes & Duties)

**(Rs. Forty Six Crore Eleven Lakh Eighteen Thousand Two Hundred Ninety Six and Eighty Three paise Only.)**

The activity schedule for supply, ETC & Civil work is enclosed herewith.

It may please be noted that the scope shall also include Supply, ETC & Civil of all equipment's / materials which are not specifically listed in your offer but are necessary in order to meet the requirements of the substation as per tender specifications in all respect. Detailed terms and

conditions will be as per the tender specifications, amendments thereof, your offer, clarifications there on and contract agreement being executed shortly. The balance excess/extra material will not be accepted by MSETCL. Therefore the agency should take care for appropriate supply of material to complete the turnkey project. The work of above substation and line has to be completed within **18 & 10 months** respectively from the date of Handing over of the site (excluding monsoon).

You are requested:-

1. To intimate the acceptance of this LoA within 10 days from receipt of LoA.
2. To submit the bar chart indicating all activities for completion of the work within 10 days to the concerned Superintending Engineer (Project Circle)
3. To submit price schedule with detailed break up of unit rate into ex-works price, tax, freight & insurance etc. within 10 days from receipt of LoA.
4. To complete the formalities like furnishing of Performance Bank guarantee as per the Clause No. 6.0 of Section-II of Book-I in prescribed format so that the contract agreement can be finalized.

Thanking you.

Encl: Activity schedules.

Yours faithfully,

  
(Jayant D. Weekey)

Chief Engineer (C&M))

Copy s.w.rs. to:

- 1) The Director (Projects), MSETCL, Mumbai.

Copy f.w.cs. to:

- 1) The C.E., EHV PC O&M Zone, MSETCL, Pune.
- 2) The C.E., Project Scheme/Civil/D&P, MSETCL, Mumbai.
- 3) The C.G.M. (F&A), MSETCL, Mumbai.

Copy to:

- 1) The G.M. (F&A, Projects), MSETCL, Mumbai.
- 2) The S.E., EHV Projects Circle, MSETCL, Pune.
- 3) The S.E., EHV Civil CCM Circle, MSETCL, Pune.
- 4) The S.E. (Post Tender), C.O. MSETCL, Mumbai.
- 5) The E.E., EHV Projects Division, Pune.
- 6) The E.E., EHV Civil CCM Division, Pune
- 7) The E.E. (D&E-S1)/(D&E-S-2), C.O. MSETCL, Mumbai.
- 8) The E.E., PMT, MSETCL, Mumbai. ....For further needful
- 9) The E.E., FTU, MSETCL, Mumbai. ....For further needful



### Activity Schedule for Supply of Material

**Name of Work: Establishment of 220/33 KV Substation at at Khed City (Retwadi)), Dist: Pune**

Name of Contractor:

Completion Period: 18 months from the date of handing over of site.

Sr.No.	Name of the material	Scheduled period for supply of material from the date of handing over of site	Hold point for payment
1	Soil investigation, Drawing submission i.e. layout, Erection Key Diagram, Gantry Structure, Equipment Structure, Earth mat Design, Cable Trench, Control Room & Foundation Drawing etc.	Submission within 30 days	
2	Gantry Materials	Commencement after 30 days & completion within 180 days.	Gantry material should be as per approved layout & site requirement and equivalent to gantry foundations casted.
3	Equipment Structures	Commencement after 30 days & completion within 180 days.	Equipment structures should be as per requirement worked out from approved layout and equivalent to respective equipment foundations casted.
4	Conductor, Insulators Hardwares etc.	Commencement after 90 days & completion within 240 days.	Completion of 100% gantry foundations & 50% gantry erection.
5	CTs, PTs, LA, Isolator, BPI, CC, WT, Clamp & Connectors, M.K.	Commencement after 120 days & completion within 300 days.	1. Completion of erection of 100% gantries with bus bar stringing. 2. Erection of respective equipment structure.
6	MS Flats, CI Pipes, Earthing Material, Yard Lighting, ACDB, Power & Control Cables, Cable Trays, Modular cable transit system, Inflatable Emergency Lightning System	Commencement after 180 days & completion within 320 days.	Material should be as per finalization of BoQ by Engineer in charge as per actual requirement based on approved drawing and erection of 100% gantries with bus bar stringing.
7	Capacitor Bank, Circuit Breakers, Power Transformer, ICT & Station Transformer	Commencement after 240 days & completion within 360 days	1. Completion of all equipment foundations & erection of it, 100% gantries with bus bar stringing and transformer plinth, completion of 100% cable trench with laying of cable trays. 2. Completion of unfinished main control room * and 100% BCR.

8	PLCC Equipments, HF Cable, PLCC Panels/DCDB, FOTE Panel etc.	Commencement after 240 days & completion within 360 days.	Completion of all bay equipments except circuit breaker, power transformer / ICT and complete finishing of PLCC room.
9	Control & Relay Panels, SCADA, Battery Sets, Battery Chargers& Fire Fighting Equipments.	Commencement after 240 days & completion within 360 days.	Completion of control room, bay control rooms & erection of respective bay equipments& laying of respective control cable.
<p><b>Note:</b></p> <ol style="list-style-type: none"> <li>1. The contractor may supply the material prior to schedule delivery period. However, the payment eligibility will be as per hold points indicated above.</li> <li>2. *Unfinished control room: Completion of slab, brick work &amp; plastering.</li> <li>3. It is mandatory for agency to take possession of site within 30 days from the date of issuance of LOA.</li> </ol>			

### Activity Schedule for Erection Work

**Name of Work: Establishment of 220/33 KV Substation at at Khed City (Retwadi)), Dist: Pune**

Name of Contractor:

Completion Period: 18 months from the date of handing over of site.

Sr.No.	Activity	No.of days/months from the date of handing over of site		Hold point for payments	Remarks
		Commencement	Completion		
	<b>ERECTION</b>				
1	Mobilization of gang	Within 30 days			
2	Arrangement of work and power supply, tests etc.	Within 30 days			
3	Erection of gantry structures and stringing of bus bar	Within 75 days	Within 240 days.		
4	Equipment structures	Within 75 days	Within 240 days.		
5	CT, PT, LA, Isolator, & BPI	Within 180 days	Within 360 days.		
6	Earthing, layout of earth mat, cable laying, cable trenches & yard lighting	Within 210 days	Within 360days.		
7	PLCC equipments i.e. WT CC, DCDB, & PLC terminal	Within 270 days	Within 390days.		
8	Erection of capacitor bank, power transformer and stations transformer	Within 300 days	Within 420days		
9	Installation of C&R panels, battery & battery charger.	Within 300 days	Within 420 days.		
10	Pre commissioning trials/testing.	Within 420 days	Within 480days.		
11	Electrical installation.	Within 300 days	Within 420days.		



### Activity Schedule for Civil Work

**Name of Work:** Establishment of 220/33 KV Substation at at Khed City (Retwadi)), Dist: Pune

Name of Contractor:

Completion Period: 18 months from the date of handing over of site.

Sr.No	Activity	No. of days/months from the date of handing over of site		Hold point for payments	Remarks
		Commencement	Completion		
(A)	<b>CIVIL WORKS</b>				
1	Visit to site, collection of site details. Layout, organizing soil investigation and submission of reports to Corporate Office and field office.	Within 10 days		The in charge S.E., to be contacted and joint visit to be undertaken with official nominated by him.	
2	Establishment of site store	Within 10 days	Within 30 days	Location to be got approved from Engineer in charge.	
3	Fencing, yard leveling	Within 15 days	Within 45 days	The scope of work and estimated cost to be got approved from S.E.(Civil) In charge of works	
4	Approach Roads, Rail track works	Within 45 days	Within 90 days		
5	Collection/finalization of foundation drawings & control room drawing	Within 30 days		Soil details within soil investigation report to be furnished with report of site visit duly certified by Engineer in charge of works (Addl.EE/EE).	
6	<b>Civil foundation for:</b>				
	Gantries	Within 30 days	Within 120 days		
	Equipments	Within 60 days	Within 180 days		
	Transformers	Within 30 days	Within 120 days		
	Capacitor Bank	Within 120 days	Within 150 days		
	End Bays	Within 60 days	Within 120 days		

7	Control Room				
	i)Foundations	Within 30 days	Within 90 days		
	ii)Brick work upto lintel	Within 90 days	Within 135 days		
	iii)Lintel to slab and casting of slab	Within 135 days	Within 180 days		
	iv)Plaster, trench with doors and windows	Within 210 days	Within 300 days		
	v)Painting finishing	Within 300 days	Within 330 days		
8	Construction of store shed & Cycle Stand	Within 330 days	Within 390 days		
9	Compound wall	Within 30 days	Within 210 days		
10	Metal spreading & GI Pipeline	Within 390 days	Within 450 days		
11	Watchmen Cabin/ Sump well	Within 450 days	Within 500 days		

STANDARD ACTIVITY SCHEDULE FOR PAYMENT ELIGIBILITY				
LILO on 220kV Kathapur-Lonikand-I line at 220kV Khed City (Retwadi) S/S.-5.94km (220 kV D/C line on M/C Tower) against SRM e tender No. T-1908 (RFx. No. 6000000693) under Pune Zone on turnkey basis				
COMPLETION PERIOD = 10 MONTHS				
Sr. No.	ACTIVITY	Schedule for completion of activities from date of LOA		Remarks/ Hold points for payments
		Commencement	Scheduled period of completion	
1	Submission of performance B.G. in lieu of S.D.		Within 10 days	
2	Visit to site , verification of scope of work, Establishment of site office and mobilisation of gang	After 5 days	Within 20 days	
3	Signing of contract agreement	After 10 days	Within 30 days	
4	Trial pits and inspection of route	After 7 days	Within 18 days	
5	Preliminary & Detailed Survey	After 12 days	Within 30 days	
6	Check survey	After 10 days	Within 60 days	
7	Approval of detailed /check survey & trial pits	After 18 days	Within 90 days	
8	Requisition of drawings of towers, stubs templates	After 5 days	Within 20 days	
9	Issuance of all drawings for execution by MSETCL	After 10 days	Within 30 days	Copy of trial pits report duly approved by Engineer in Charge be furnished
10	Collection of drawings by Contractor	5 days	15 days	
11	Preparation of shop drawings	15 days	45 days	
12	Proto manufacturing, assembly of tower, submission of call for inspection (if applicable)	After 30 days	Within 45 days	
13	Proto inspection	After 37 days	Within 70 days	
14	Supply of stub & stub setting templates	After 20 days	Within 120 days	Supply to be effected within 15 days after approval of check survey
15	Tower foundation	After 20 days	Within 200 days	
16	Supply of tower material	After 40 days	Within 220 days	The foundation should have been casted for tower under supply. The towers to be supplied on per tower basis within 15 days of casting of foundation.
17	Erection of tower	After 60 days	Within 250 days	50% tower foundations should be completed, Erection @ 6 loc. per month.
18	Supply of conductor, earthwire, insulators for accessories towers & conductor /groundwire & insulator Hardware .	After 90 days	Within 250 days	Contractor's confirmation about complete erection of towers of equivalent route length is ready for stringing
19	Stringing of line	After 150 days	Within 280 days	
20	Miscellaneous works (fixing of tower accessories,tree cutting etc.)	After 200 days	Within 290 days	



Activity Schedule-10M\_2

21	Inspection, testing & commissioning of line	After 210 days	Within 300 days	
<b>Note:-</b>				
1	Contractor may execute the erection works ahead of schedule dates. In such an event the schedule date for supply of respective materials stands preponed accordingly and such supplies will become eligible for payments.			
2	The contractor shall supply the material as per actual requirement only, based on the bill of quantities after check survey & duly approved by Engineer incharge No additional /surplus material shall be accepted except specifically requisitioned by Engineer-In-Charge.			
3	The contractor can supply the material prior to scheduled delivery period,however,the payment eligibility will be from the date as per approved schedule period subject to satisfying conditions of hold points.			