



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

<b>From</b> The Chief Engineer (C&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	<b>To</b> <b>M/s. BNC Power Projects Ltd.,</b> 3 <sup>rd</sup> Floor, Butte Patil Complex, Next to Dashbhuja Ganpati Temple, Karve Road, Pune-411038 bnchaudhary@yahoo.co.in
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MSETCL/CO/CE(C & M)/T-1932/BNC/

09245

5 DEC 2019  
Date:

**Sub:** Letter of Award for “Establishment of 220/22 kV Abitghar GIS Substation alongwith LILO on existing 220 kV Padghe-Wada line at loc.98 at prop. 220 kV Abitghar S/S i.220kV NBDCDC line — 9 Km ii.220kV Underground Cable — 1.2 Km under Vashi zone on turnkey basis against tender no. T-1932 (RFx No. 6000000742)”.

- Ref:** 1) SRM e -Tender No. T-1932/MSETCL/CO/SE(Tender) (RFx No. 6000000742)  
2) Your Response No. 4000073970 against subject tender.  
3) Scheme B.R. No. 133/23 dtd. 22.02.2019  
4) Tender acceptance B.R. No.138/05 dtd. 18.09.2019  
5) MERC approval – MERC/Capex/MSETCL/2018-19/691dtd. 03.09.2019

Dear Sir,

In connection with above subject, we are pleased to inform you that your above referred offer for the work of establishment of 220/22 kV Abitghar GIS Substation along-with associated transmission lines under Vashi zone on turnkey basis has been accepted. The details are as follows.

Description of works	Final Price quoted in Rs.
Supply,ETC and Civil work of equipments and materials for the work of establishment of 220/22 kV substation at Abitghar along-with associated transmission lines under Vashi zone on turnkey basis for following scope of work:- 1) Establishment of 220/22 kV Abitghar GIS Substation 2) Work of construction of LILO on existing 220 kV Padghe-Wada line at loc.98 at prop. 220 kV Abitghar S/S i.220kV NBDCDC line — 9 Km ii.220kV Underground Cable — 1.2 Km	<b>Supply-</b> Rs.58,44,03782.09 <b>ETC</b> - Rs. 7,47,13,367.44 <b>Civil</b> - Rs 8,14,91,665.06  <b>Total -Rs.74,06,08,814.59</b> (Including all Taxes & Duties)

(Rs. Seventy Four Crore Six Lakh Eight Thousand Eight Hundred Fourteen and Paise Fifty Nine 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 lines has to be completed within 18 months from the date of Handing over of the site (excluding monsoon).

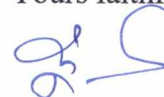
You are requested:-

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.
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,



**R. L. Gaikwad**  
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, Vashi.
- 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, Kalva.
- 3) The S.E., EHV Civil CCM Circle, MSETCL, Kalva.
- 4) The S.E. (Post Tender), C.O. MSETCL, Mumbai.
- 5) The E.E., EHV Projects Division, Kayan.
- 6) The E.E., EHV Civil CCM Division, Kalva
- 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**

Tender No. : SRM e -Tender No. T- 1932 MSETCL/CO/SE (Tender)  
Name of Work : 1) Establishment of 220/22 kV Abhitghar GIS Substation  
2) LILO on existing 220 kV Padghe-Wada line at loc.98 at prop. 220 kV  
Abhitghar s/s:  
i.220kV NBDCDC line — 9 Km  
ii.220kV Underground Cable — 1.2 Km under Vashi Zone

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, Earth mat Design, Cable Trench, Control Room & Foundation Drawing etc.	Submission within 30 days	
2	Conductor, Insulators Hardwares etc.	Commencement after 90 days & completion within 500 days.	Completion of 100% jumpering works.
3	GIS Bays	Commencement after 240 days & completion within 530 days.	Completion of erection of 100% GIS Bays.
4	MS Flats, CI Pipes, Earthing Material, Yard Lighting, ACDB, Power & Control Cables, Cable Trays, Emergency Lightning System	Commencement after 90 days & completion within 500 days.	Material should be as per finalization of BoQ by Engineer in charge as per actual requirement based on approved drawing and erection of earthing equipments, cable trench, laying of earthmat and control cable.
5	T/F, Station Transformer	Commencement after 240 days & completion within 500 days	Completion of ICT plinth, construction/erection of all equipments foundations/structure required for station T/F.
6	HF Cable, DCDB, PLCC Panels etc.	Commencement after 180 days & completion within 500 days	Completion of DCDB room.
7	Control & Relay Panels, SCADA, Battery Sets, Battery Chargers & Fire Fighting Equipments.	Commencement after 240 days & completion within 540 days	Completion of control room and laying of respective control cable. Completion of Battery room.
<b>Note:</b> 1. The contractor may supply the material prior to schedule delivery period. However, the payment eligibility will be as per hold points indicated above. 2. *Unfinished control room: Completion of slab, brick work & plastering. 3. It is mandatory for agency to take possession of site within 30 days from the date of issuance of LoA.			

  
Supdt. Engineer  
(Pretender)  
MSETCL CO MUMBAI

**Activity Schedule for Erection Work**

Tender No. : SRM e -Tender No. T- 1932 MSETCL/CO/SE (Tender)  
Name of Work : 1) Establishment of 220/22 kV Abhitghar GIS Substation  
2) LILO on existing 220 kV Padghe-Wada line at loc.98 at prop. 220 kV  
Abhitghar s/s:  
i.220kV NBDCDC line — 9 Km  
ii.220kV Underground Cable — 1.2 Km under Vashi Zone  
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	
		Commencement	Completion
	<b>ERECTION</b>		
1	Mobilization of manpower and T&P.	Within 30 days	
2	Conductor, Insulators Hardwares etc.	within 180 days	Within 500 days
3	GIS Bays	within 240 days	Within 530 days.
4	MS Flats, CI Pipes, Earthing Material, Yard Lighting, ACDB, Power & Control Cables, Cable Trays, Emergency Lightning System	Within 180 days	Within 500 days.
5	T/F, Station Transformer	Within 240 days	Within 500 days
6	HF Cable, DCDB, PLCC Panels etc.	Within 240 days	Within 500 days
7	Control & Relay Panels, SCADA, Battery Sets, Battery Chargers & Fire Fighting Equipments.	Within 300 days	Within 540 days

  
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### Activity Schedule for Civil Works

Tender No : SRM e -Tender No. T- 1932 MSETCL/CO/SE (Tender)

Name of Work : 1) Establishment of 220/22 kV Abhitghar GIS Substation  
 2) LILO on existing 220 kV Padghe-Wada line at loc.98 at prop. 220 kV  
 Abhitghar s/s:  
 i.220kV NBDCDC line — 9 Km  
 ii.220kV Underground Cable — 1.2 Km under Vashi Zone


Name of Contractor :

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

Sr.No.	Activity	No. of days from the date of handing over of site		Hold point for payments	Remarks
		Commencement	Completion		
1	Visit to site, collection of site details. Layout, organizing soil investigation and submission of reports to Corporate Office and field office.	Within 20 days			The in charge S.E., to be contacted and joint visit to be undertaken with official nominated by him.
2	Establishment of site office/store/labour camp	Within 10 days	Within 30 days		Location to be got approved from Engineer in charge.
3	Collection/finalization of foundation, control room& other drawings	Within 15 days	Within 45 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).
4	Construction of store shed, drilling of bore well, P/F pump etc.	Within 30 days	Within 75 days		
5	Land development	Within 30 days	Within 90 days		
6	Compound wall, retaining wall, chain link fencing, gates & watchman cabin	Within 30 days	Within 210 days		
7	T/F foundations with rail track	Within 60 days	Within 150 days		start date after land development of 110kV yard.

  
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8	Gantry and LM foundations	Within 60 days	Within 180 days		
9	Equipment foundations	Within 90 days	Within 270 days		
10	Cable trenches	Within 180 days	Within 300 days		
11	Control room a) foundations & upto plinth including cable trenches b) RCC work upto lintel c) RCC work upto & including slab d) RCC work for first floor including slab e) Brickwork & plastering f) Flooring, finishing & painting	Within 30 days  Within 90 days  Within 150 days  Within 240 days  Within 255 days  Within 300 days	Within 120 days  Within 150 days Within 240 days Within 300 days Within 330 days Within 360 days		After de-shuttering of main slab.
12	Approach road , WBM roads	Within 150 days	Within 240 days		
13	All foundations grouting, plastering & finishing	Within 210 days	Within 360 days		
14	GI pipeline & metal spreading	Within 300 days	Within 390 days		
15	Asphalting of WBM roads	Within 390 days	Within 450 days		
16	All final paintings	Within 390 days	Within 480 days		
17	Rectifications if any	Within 480 days	Within 500 days		

  
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STANDARD ACTIVITY SCHEDULE FOR LINE FOR PAYMENT ELIGIBILITY				
<b>Establishment of 220/22 kV Abitghar GIS Substation alongwith LILO on existing 220 kV Padghe-Wada line at loc.98 at prop. 220 kV Abitghar S/S i.220kV NBDCDC line — 9 Km ii.220kV Underground Cable — 1.2 Km under Vashi zone on turnkey basis against tender no. T-1932 (RFx No. 6000000742)</b>				
COMPLETION PERIOD = 18 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, Establismment 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 21 days	
5	Preliminary & Detailed Survey	After 15 days	Within 105 days	At the rate minimum 20 km per month
6	Check survey	After 10 days	Within 220 days	At the rate minimum 10 km per month
7	Approval of detailed /check survey & trial pits	After 20 days	Within 145 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 60 days	
13	Proto inspection	After 37 days	Within 70 days	
14	Supply of stub & stub setting templates	After 20 days	Within 300 days	Supply to be effected within 15 days after approval of check survey
15	Tower foundation	After 20 days	Within 400 days	At the rate minimum 15 locations per month
16	Supply of tower material	After 60 days	Within 420 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 80 days	Within 450 days	50% tower foundations should be completed, Erection @ 30 loc. per month.
18	Supply of conductor, earthwire, insulators for accessories towers & conductor /groundwire & insulator Hardware .	After 180 days	Within 480 days	Contractor's confirmation about complete erection of towers of equivalent route length is ready for stringing
19	Stringing of line	After 190 days	Within 500 days	Atleast 50% of towers should have been erected. Progress @ 6 KM/Month
20	Miscellaneous works (fixing of tower accessories,tree cutting etc.)	After 220 days	Within 510 days	

  
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Sr. No.	ACTIVITY	Schedule for completion of activities from date of LOA		Remarks/ Hold points for payments
		Commencement	Scheduled period of completion	
21	Inspection, testing & commissioning of line	After 510 days	Within 540 days	
Note:-				
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.			

  
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