

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

<b>From</b> The Chief Engineer (DC&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> M/s BNC POWER PROJECTS LTD 3 <sup>rd</sup> Floor, Butte Patil Complex, Paud Phata, Karve Road, Pune: 411038
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MSETCL/CO/DC&M/SS Pre Tender/ 220

Date: 06/01/2018

**Sub: Letter of Award for “Work of Establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis against tender no. T-1755 (RFx no. 6000000320)”.**

- Ref:**
- 1) Tender No. T-1755/MSETCL/CO/DC&M/D&T/SS Pre Tender
  - 2) Your offer dtd. 17.10.2017 against subject tender.
  - 3) Scheme Approval No. CMD/626 dtd. 19.06.2017
  - 4) Tender acceptance B.R. No. 124/13 dtd. 26.12.2017

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 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis against tender no. T-1755 (RFx no. 6000000320) has been accepted. The details are as follows.

**Part A- Supply of materials**

Sr. No.	Description of works	Final Price quoted in Rs.
1	Supply of equipments and materials for the work of establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis for following scope of work:- <ol style="list-style-type: none"> <li>1. Supply &amp; ETC of 2 nos. of 220 kV end bays including Civil Works at Nerul S/s.</li> <li>2. Supply &amp; ETC of 2 nos. of 220 kV end bays including Civil Works at Seawood S/s.</li> <li>3. Supply, Laying &amp; Termination of 220 kV underground D/C cable through underground Cable Trench, from 220 kV Nerul S/s to 220 kV Seawood S/s- 1.7 km underground cable.</li> <li>4. Supply &amp; ETC of Metering of CT/PT (Main &amp; Check), Isolator at Seawood TSS premises.</li> <li>5. Supply &amp; ETC of ADSS cable from 220 kV Nerul S/s to 220 kV Seawood S/s along with fiber optic terminal equipment's (FOTE) along with fiber optic cable for communication at both ends.</li> <li>6. Construction of Air Conditioned metering room at Seawood TSS premises.</li> <li>7. Supply &amp; ETC of SCADA system for remote monitoring of TSS switchyard to be installed at 220 kV Nerul S/s and remote data communication to SLDC Kalwa.</li> <li>8. ABT meters along with associated software, data concentrator and other accessories</li> </ol>	<p><b>Rs. 25,94,90,840.00</b></p> <p>(Including all Taxes &amp; Duties)</p> <p>1.58% below tender estimate cost for supply work</p>

(Rs. Twenty Five Crore Ninety Four Lakhs Ninety Thousand Eight Hundred and Forty Only.)

Sub: LOA for work of Establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis against tender no T-1755

The activity schedule for supply work is enclosed herewith.

It may please be noted that the scope shall also include supply of all equipments/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 thereon 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 has to be completed within 06 months from the date of handing over of site (including monsoon).

**Part B – ETC of materials**

Sr. No.	Description of works	Final Price quoted in Rs.
1	<p>Erection, Testing &amp; Commissioning of equipments and materials for the work of establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis for following scope of work:-</p> <ol style="list-style-type: none"> <li>1. Supply &amp; ETC of 2 nos. of 220 kV end bays including Civil Works at Nerul S/s.</li> <li>2. Supply &amp; ETC of 2 nos. of 220 kV end bays including Civil Works at Seawood S/s.</li> <li>3. Supply, Laying &amp; Termination of 220 kV underground D/C cable through underground Cable Trench, from 220 kV Nerul S/s to 220 kV Seawood S/s- 1.7 km underground cable.</li> <li>4. Supply &amp; ETC of Metering of CT/PT (Main &amp; Check), Isolator at Seawood TSS premises.</li> <li>5. Supply &amp; ETC of ADSS cable from 220 kV Nerul S/s to 220 kV Seawood S/s along with fiber optic terminal equipment's (FOTE) along with fiber optic cable for communication at both ends.</li> <li>6. Construction of Air Conditioned metering room at Seawood TSS premises.</li> <li>7. Supply &amp; ETC of SCADA system for remote monitoring of TSS switchyard to be installed at 220 kV Nerul S/s and remote data communication to SLDC Kalwa.</li> <li>8. ABT meters along with associated software, data concentrator and other accessories</li> </ol>	<p style="text-align: center;"><b>Rs. 36,42,965.00</b></p> <p>(Including all Taxes &amp; Duties)</p> <p>1.58% below tender estimate cost for erection work</p>

(Rs. Thirty Six Lakhs Forty Two Thousand Nine Hundred and Sixty Five only.)

The activity schedule for erection work is enclosed herewith.

It may please be noted that the scope shall also include erection, testing and commissioning of all equipments/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 thereon and contract agreement being executed shortly. The work of above substation has to be completed within 06 months from the date of handing over of site (including monsoon)

**Part C- Civil works**

Sr. No.	Description of works	Final Price quoted in Rs.
1	<p>Civil works for establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis for following scope of work:-</p> <ol style="list-style-type: none"><li>1. Supply &amp; ETC of 2 nos. of 220 kV end bays including Civil Works at Nerul S/s.</li><li>2. Supply &amp; ETC of 2 nos. of 220 kV end bays including Civil Works at Seawood S/s.</li><li>3. Supply, Laying &amp; Termination of 220 kV underground D/C cable through underground Cable Trench, from 220 kV Nerul S/s to 220 kV Seawood S/s- 1.7 km underground cable.</li><li>4. Supply &amp; ETC of Metering of CT/PT (Main &amp; Check), Isolator at Seawood TSS premises.</li><li>5. Supply &amp; ETC of ADSS cable from 220 kV Nerul S/s to 220 kV Seawood S/s along with fiber optic terminal equipment's (FOTE) along with fiber optic cable for communication at both ends.</li><li>6. Construction of Air Conditioned metering room at Seawood TSS premises.</li><li>7. Supply &amp; ETC of SCADA system for remote monitoring of TSS switchyard to be installed at 220 kV Nerul S/s and remote data communication to SLDC Kalwa.</li><li>8. ABT meters along with associated software, data concentrator and other accessories</li></ol>	<p><b>Rs. 5,02,34,134.00</b></p> <p>(Including all Taxes &amp; Duties)</p> <p>1.58 % below tender estimate cost for civil work</p>

(Rs. Five Crore Two Lakhs Thirty Four Thousand One Hundred and Thirty Four only.)

The activity schedule for civil works is enclosed herewith.

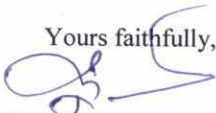
It may please be noted that the scope of civil work shall also include design of civil works and required materials which are not specifically listed in your offer but are necessary in order to meet the requirements of the substation as per tender specifications in all respect. Detailed terms and conditions will be as per the tender specifications, amendments thereof, your offer, clarifications thereon 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 has to be completed within 06 months from the date of handing over of site (including 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 S/S 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 schedule.

Yours faithfully,  
  
Chief Engineer (DC&M)

Copy s.w.rs. to:

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

Sub: LOA for work of Establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood on turnkey basis against tender no F-1755

Copy f.w.cs. to:

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

Copy to:

- 1) The G.M. (F&A, Projects), MSETCL, Mumbai.  
....This is as per the draft LOA pre-audited vide O.N. No. G.M. - III/01 dt 03/01/2018.
- 2) The S.E., EHV Projects Circle, MSETCL, Kalwa.
- 3) The S.E., EHV Civil CCM Circle, MSETCL, Airoli.
- 4) The S.E. (Post Tender), C.O. MSETCL, Mumbai.
- 5) The E.E., EHV Projects Division, MSETCL, Kalwa.
- 6) The E.E., EHV Civil CCM Division, MSETCL, Airoli.
- 7) The E.E. (D&E-S1)/(D&E-S-2), C.O. MSETCL, Mumbai.
- 8) The E.E., FTU, MSETCL, Mumbai. ....For further needful

### Activity Schedule for Supply of Material

Tender No.: T-1755/MSETCL/CO/DC&M/D&T/SS Pretender (RFx no 6000000320)  
 Name of Work: Establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood.  
 Name of Contractor: M/s BNC POWER PROJECTS LTD  
 Completion Period: 6 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 90 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 90 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 60 days & completion within 120 days.	Completion of 100% gantry foundations & 50% gantry erection.
5	CTs, PTs, LA, Isolator, BPI, CC, WT, Clamp & Connectors, M.K.	Commencement after 60 days & completion within 120 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,	Commencement after 90 days & completion within 120 days.	Material should be as per finalization of BoQ by Engineer in charge as per actual requirement based on approved drawing and construction of 50% length of cable trench.
7	Circuit Breakers	Commencement after 90 days & completion within 120 days	1. Completion of all equipment foundations & erection of it, 100% gantries with bus bar stringing and completion of 100% cable trench with laying of cable trays and completion of foundation for C.B. 2. Completion of unfinished main

			control room * and 100% BCR.
8	PLCC Equipments, HF Cable, PLCC Panels/DCDB, etc.	Commencement after 90 days & completion within 120 days.	Completion of all bay equipments except circuit breaker, and complete finishing of PLCC room.
9	Control & Relay Panels, & Fire Fighting Equipment's.	Commencement after 120 days & completion within 150 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**

Tender No.: T-1755/MSETCL/CO/DC&M/D&T/SS Pretender (RFx no 6000000320)  
 Name of Work: Establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood.  
 Name of Contractor: M/s BNC POWER PROJECTS LTD  
 Completion Period: 6 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 60 days	Within 120 days.		
4	Equipment structures	Within 60 days	Within 120 days.		
5	CT, PT, LA, Isolator, & BPI	Within 90 days	Within 150 days.		
6	Earthing, layout of earth mat, cable laying, cable trenches & yard lighting	Within 90 days	Within 150 days.		
7	PLCC equipments i.e. WT CC, DCDB, & PLC terminal, CB	Within 120 days	Within 150 days.		
8	Installation of C&R panels & firefighting equipment's.	Within 145 days	Within 160 days.		
9	Pre commissioning trials/testing.	Within 160 days	Within 170 days.		
10	Electrical installation.	Within 120 days	Within 150 days.		

### Activity Schedule for Civil Work

Tender No.: T-1755/MSETCL/CO/DC&M/D&T/SS Pretender (RFx no 6000000320)  
 Name of Work: Establishment of 220 kV end bays and laying of 220 kV EHV underground power cable for 220 kV power supply to the extent of 30 MVA for proposed Railway TSS at Seawood.  
 Name of Contractor: M/s BNC POWER PROJECTS LTD  
 Completion Period: 6 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>(A)</b>	<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, construction of store shed	Within 10 days	Within 30 days	Location to be got approved from Engineer in charge.	
5	Collection/finalization of foundation drawings	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 30 days	Within 120 days		
7	Cable Trench with Covers	Within 60 days	Within 150 days		
8	Metal Spreading, laying G.I. Pipe lines.	Within 150 days	Within 165 days		