

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD

(CIN No. U40109MH2005SGC153646)

From The Chief Engineer (C&M), 5 th 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	To M/s Maha Active Engineers India Pvt. Ltd. 202, 'ARTH' Complex, Adalat Road, Aurangabad 431001 Tel: 0240 - 2324171 E-mail: projects@mahaactiveindia.com
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MSETCL/CO/C&M/Pre-T/SSPre-Tender/

No 01209

Date: 22 FEB 2021

Sub: Letter of Award for “Construction of 220 kV DCDC Jeur-Karjat line (52 km) along with 2x220 kV end bays at 220 kV Jeur S/S and 220 kV DCMC line by making LILO on 220 kV Bhigwan –Kurkumb line at 400 kV Karjat S/S (18 km) under Pune zone on turnkey basis against tender no. T-1946 (RFx no 6000000750)”.

- Ref:**
- 1) SRM e -Tender No. T-1946/MSETCL/CO/C&M/Pre-T/Pre-Tender (RFx No. 6000000750)
 - 2) Your offer dtd. 10.08.2019 against subject tender.
 - 3) Scheme B.R. No. 118/08 dtd. 15.07.2017
 - 4) Tender acceptance B.R. No. 138/13 dtd. 18.09.2019
 - 5) MERC approval – MERC/Capex/MSETCL/2017-18/5095 dtd. 04.01.2018

Dear Sir,

In connection with above subject, we are pleased to inform you that your above referred offer for the work of Construction of 220 kV DCDC Jeur-Karjat line (52 km) along with 2x220 kV end bays at 220 kV Jeur S/S and 220 kV DCMC line by making LILO on 220 kV Bhigwan –Kurkumb line at 400 kV Karjat S/S (18 km) under Pune zone on turnkey basis has been accepted. The details are as follows.

Description of works	Final Price quoted in Rs.	
Design, manufacture and supply of all materials execution of relevant civil works (wherever required) erection, testing and commissioning for work of construction of 220 kV DCDC Jeur-Karjat line (52 km) along with 2x220 kV end bays at 220 kV Jeur S/S and 220 kV DCMC line by making LILO on 220 kV Bhigwan –Kurkumb line at 400 kV Karjat S/S (18 km) under Pune zone on turnkey basis	For Supply	
	2x220 kV end bays at 220 kV Jeur S/S	₹ 2,47,65,535.65 (At par)
	220 kV DCDC Jeur-Karjat line (52 km)	₹ 23,17,26,467.23 (7.00% Below)
	LILO on 220 kV Bhigwan –Kurkumb line (18 km)	₹ 9,99,17,993.76 (7.00% Below)
	Total Supply	₹ 35,64,09,996.64 (6.55% Below)
	For ETC	
	2x220 kV end bays at 220 kV Jeur S/S	₹ 14,66,934.02 (At par)
	220 kV DCDC Jeur-Karjat line (52 km)	₹ 5,65,01,346.81 (At par)

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	LILO on 220 kV Bhigwan -Kurkumb line (18 km)	₹ 2,35,47,553.85 (At par)
	Total ETC	₹ 8,15,15,834.68 (At par)
	For Civil	
	2x220 kV end bays at 220 kV Jeur S/S	₹ 1,67,50,477.75 (10% Below)
	Total Civil	₹ 1,67,50,477.75 (10% Below)
	TOTAL Contract Price	₹ 45,46,76,309.07 (5.57% Below the tender estimate cost of ₹ 48,15,00,015.90)

(Rs. Forty-five Crore Forty-six Lakh Seventy-six Thousand Three Hundred Nine Only)

The activity schedule for supply, ETC & Civil works is enclosed herewith. It may please be noted that the scope shall also include supply, ETC & Civil works of all equipments/materials, 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 and lines 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 24 Months (including 24 months for Jeur-Karjat line, 12 months for LILO on Bhigwan-Kurkumb line and 12 months for 2x220 kV end bays) from handing over of site/line profile (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 work within 10 days to S.E., EHV Projects Circle, MSETCL, Pune..
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,


Chief Engineer (C&M)

Copy s.w.rs. to:

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

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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/ACI, 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 -I, Pune.
- 6) The E.E., EHV Projects Division -III, Solapur.
- 7) The E.E., EHV Civil CCM Division, Solapur.
- 8) The E.E. (D&E-S1)/(D&E-S-2), C.O. MSETCL, Mumbai.
- 9) The E.E., PMT, MSETCL, Mumbai.For further needful
- 10) The E.E., FTU, MSETCL, Mumbai.For further needful

STANDARD ACTIVITY SCHEDULE FOR PAYMENT ELIGIBILITY				
Name of line: 220 kV DC line on MC towers by making LILO on 220 kV Bhigwan –Kurkumb line at prop. 400 kV Karjat s/s - 18.0 km				
COMPLETION PERIOD = 12 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 21 days	
5	Preliminary & Detailed Survey	After 15 days	Within 68 days	At the rate minimum 20 km per month
6	Check survey	After 10 days	Within 136 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 45 days	
13	Proto inspection	After 37 days	Within 60 days	
14	Supply of stub & stub setting templates	After 20 days	Within 160 days	Supply to be effected within 15 days after approval of check survey
15	Tower foundation	After 20 days	Within 250 days	At the rate minimum 10 locations per month
16	Supply of tower material	After 40 days	Within 270 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 390 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 275 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 300 days	Atleast 50% of towers should have been erected. Progress @ 10KM/Month
20	Miscellaneous works (fixing of tower accessories, tree cutting etc.)	After 220 days	Within 310 days	
21	Inspection, testing & commissioning of line	After 275 days	Within 360 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.

STANDARD ACTIVITY SCHEDULE FOR PAYMENT ELIGIBILITY

Name of line: 220 kV DC line on DC towers from 220 kV Jeur s/s to prop. 400 kV Karjat s/s -

COMPLETION PERIOD = 24 MONTHS

Sr. No.	ACTIVITY	Schedule for completion of activities		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 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 80 days	
14	Supply of stub & stub setting templates	After 20 days	Within 400 days	Supply to be effected within 15 days after approval of check survey
15	Tower foundation	After 20 days	Within 500 days	At the rate minimum 15 locations per month
16	Supply of tower material	After 60 days	Within 570 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 600 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 650 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 680 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 700 days	
21	Inspection, testing & commissioning of line	After 680 days	Within 720 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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Activity Schedule for Supply of Materials.

Name of work : Work of construction of 02 Nos. of 220 kV bays at 220 kV bays at Jeur S/S

Completion period - 12 months from the date of handing over of site including monsoon.

Sr. No	Name of the material	Scheduled period for supply of material from date of LOA	Hold point for payment
1	Soil investigation, drawing submission i.e. Layout, Erection Key Diagram, Gantry Structure, Equipment Structure, Earthmat design, Cable trench & Foundation drawings etc.	Submission within 30 days	
2	Gantry materials	Commencement after 30 days & completion within 75 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 hardware etc.	Commencement after 90 days & completion within 135 days.	Completion of 100% gantry foundations & 50 % gantry erection.
5	CTs, PTs, LA, Isolator, BPI, clamp & connectors, M.K.	Commencement after 150 days & completion within 175 days.	1) Completion of erection of 100% gantries with bus bars stringing. 2) Erection of respective equipment structure.
6	MS Flats, CI Pipes, Earthing material, Yard lighting, ACDB, Power & control cables, cable trays	Commencement after 150 days & completion within 180 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	Circuit Breakers	Commencement after 210 days & completion within 250 days	1) Completion of all equipment foundations and erection of it, 100% gantries with bus bars stringing and Reactor plinth and completion of 100% cable trench with laying of cable trays.
8	FOTE equipments, ABT Meters etc.	Commencement after 210 days & completion within 250 days.	Completion of all bay equipments except Circuit Breaker
9	Control & Relay panels, SCADA, Battery sets, battery chargers	Commencement after 240 days & completion within 270 days.	Completion of bay control rooms & erection of respective bay equipments and laying of respective control cable..
Note: 1) The contractor may supply the material prior to scheduled delivery period. However, the payment eligibility will be as per hold points indicated as above. 2) It is mandatory for agency to take possession of site immediately on issue of LOA.			

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