

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

	<u> </u>	
From	To	
The Chief Engineer (C&M),	M/s Stelmec Ltd.	
5 th Floor, A-Wing, Prakashganga,	Sea Queen, 43-A, H. K. Bhabha Road	
C-19, "E" Block, Bandra – Kurla Complex,	Bandstand, Bandra (W) Mumbai – 400 050	
Bandra (East), Mumbai – 400 051.	Tel: +91 22 2643 6127 /28 / 29	
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MSETCL/CO/C&M/Pre-T/SSPre-Tender/

No 0 5 4 5 8

Sub: Letter of Award for "Establishment of 400/220 kV substation at Karjat Dist. Ahmednagar alongwith associated transmission lines under Nashik zone on turnkey basis against tender no. T-1921 (RFx No. 6000000715)".

Ref: 1) SRM e -Tender No. T-1921/MSETCL/CO/C&M/Pre-T/Pre-Tender (RFx No. 6000000715)

- 2) Your offer dtd. 25.02.2019 against subject tender.
- 3) Scheme B.R. No. 118/08 dtd. 15.07.2017
- 4) Tender acceptance B.R. No.135/30 dtd. 06.06.2019
- 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 establishment of 400/220 kV substation at Karjat Dist. Ahmednagar along-with associated transmission lines under Nashik zone on turnkey basis has been accepted. The details are as follows.

Part A- Supply of materials

Description of works	Final Price quoted in Rs.
Supply of equipments and materials for the work of establishment	
of 400/220 kV substation at Karjat Dist. Ahmednagar along-with	
associated transmission lines under Nashik zone on turnkey basis	
for following scope of work:-	D- 125 05 24 594 00
1) Establishment of 400/220 kV Karjat Substation	Rs. 1,35,05,24,584.00
2) Work of construction of 400 kV LILO on both ckts. of 400	(Including all Taxes & Duties)
kV Lonikand-II (ckt1 & II) — Girawali line –6.0 km	
3) Work of construction of 220 kV DC line from 220 kV	
Bhose (Belwandi) s/s to prop. 400 kV Karjat s/s -32.0 km	

(Rs. One Hundred and Thirty-five Crore Five Lakh Twenty-four Thousand Five Hundred Eighty-four Only.)

The activity schedule for supply work is enclosed herewith.

Date:

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 24 months (including 12 months for 400 kV line and 18 months for 220 kV line) from the date of Handing over of the site (including monsoon).

Part B - ETC of materials

Description of works	Final Price quoted in Rs.
Erection, Testing & Commissioning of equipments and materials	
for the work of establishment of 400/220 kV substation at Karjat	
Dist. Ahmednagar along-with associated transmission lines under	
Nashik zone on turnkey basis for following scope of work:-	Rs. 15,14,51,188.00
1) Establishment of 400/220 kV Karjat Substation	· (Including all Taxes &
2) Work of construction of 400 kV LILO on both ckts. of 400	Duties)
kV Lonikand-II (ckt1 & II) — Girawali line –6.0 km	
3) Work of construction of 220 kV DC line from 220 kV	
Bhose (Belwandi) s/s to prop. 400 kV Karjat s/s -32.0 km	

(Rs. Fifteen Crore Fourteen Lakh Fifty-one Thousand One Hundred Eighty-eight 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 24 months (including 12 months for 400 kV line and 18 months for 220 kV line) from the date of Handing over of the site (including monsoon).

Part C- Civil works

Description of works	Final Price quoted in Rs.
Civil works for establishment of 400/220 kV substation at Karjat	
Dist. Ahmednagar along-with associated transmission lines under	
Nashik zone on turnkey basis for following scope of work:-	
1) Establishment of 400/220 kV Karjat Substation	Rs. 30,38,22,149.00
2) Work of construction of 400 kV LILO on both ckts. of 400	(Including all Taxes & Duties)
kV Lonikand-II (ckt1 & II) — Girawali line –6.0 km	
3) Work of construction of 220 kV DC line from 220 kV	
Bhose (Belwandi) s/s to prop. 400 kV Karjat s/s -32.0 km	

(Rs. Thirty Crore Thirty-eight Lakh Twenty-two Thousand One Hundred Forty-nine 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 24 months (including 12 months for 400 kV line and 18 months for 220 kV line) from the date of Handing over of the 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 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,

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, Nashik.
- 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, Nashik.
- 3) The S.E., EHV Civil CCM Circle, MSETCL, Nashik.
- 4) The S.E. (Post Tender), C.O. MSETCL, Mumbai.
- 5) The E.E., EHV Projects Division, Nashik.
- 6) The E.E., EHV Civil CCM Division, Nashik
- 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

Sub: Letter of Award for "Establishment of 400/220 kV substation at Karjat Dist. Ahmednagar along-with associated transmission lines under Nashik zone on turnkey basis against tender no. T-1921 (RFx No. 6000000715)".

Activity Schedule for Supply of Material

Tender No.: T-1921/MSETCL/CO/C&M/Pre-T/SSPre-Tender (RFx No. 6000000715)

Establishment of 400/220 kV substation at Karjat Dist. Ahmednagar along-with associated Name of Work:

transmission lines under Nashik zone MSETCL, Maharashtra

Name of Contractor: M/s Stelmec Ltd., Mumbai

Completion Period: 24 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 210 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 210 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 330 days.	Completion of 100% gantry foundations & 50% gantry erection.				
5	CTs, PTs, LA, Isolator, BPI, CC, Clamp & Connectors, M.K.	Commencement after 120 days & completion within 360 days.	Completion of erection of 100% gantries with bas bar stringing. 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 270 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	Reactor, Circuit Breakers, Power Transformer, ICT& Station Transformer	Commencement after 240 days & completion within 480 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	FOTE Equipments and Panel, DCDB, etc.	Commencement after 300 days & completion within 420 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 360 days & completion within 540 days.	Completion of control room, bay control rooms & erection of respective bay equipments& laying of respective control cable.				
	Note: 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.						

Activity Schedule for Erection Work

Tender No.: T-1921/MSETCL/CO/C&M/Pre-T/SSPre-Tender (RFx No. 6000000715)

Name of Work: Establishment of 400/220 kV substation at Karjat Dist. Ahmednagar along-with associated transmission lines under Nashik zone MSETCL, Maharashtra

Name of Contractor: M/s Stelmec Ltd., Mumbai

Completion Period: 24 months from the date of handing over of site.

Sr.	Name of the material	No. of days/months from t	he date of handing over of site	Hold points/Remarks
No.	Name of the material	Commencement	Completion	noiu points/ Kemai ks
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 300 days.	
4	Equipment structures	Within 75 days	Within 300 days.	
5	CT, PT, LA, Isolator, & BPI	Within 180 days	Within 420 days.	
6	Earthing, layout of earth mat, cable laying, cable trenches & yard lighting	Within 210 days	Within 420 days.	
7	FOTE equipments & DCDB etc.	Within 360 days	Within 480 days.	
8	Erection of Reactor, power transformer and stations transformer	Within 300 days	Within 480 days	
9	Installation of C&R panels, battery & battery charger.	Within 360 days	Within 540 days.	
10	Electrical installation.	Within 420 days	Within 600 days.	
11	Pre commissioning trials/testing.	Within 630 days	Within 700 days.	

Activity Schedule for Civil Work

Tender No.: T-1921/MSETCL/CO/C&M/Pre-T/SSPre-Tender (RFx No. 6000000715)

Name of Work: Establishment of 400/220 kV substation at Karjat Dist. Ahmednagar along-with

associated transmission lines under Nashik zone MSETCL, Maharashtra

Name of Contractor: M/s Stelmec Ltd., Mumbai

Completion Period: 24 months from the date of handing over of site.

Sr. No.	Activity		No. of days/months from the date of handing over of site		Remarks
1,00		Commencement		payments	
(A)	CIVIL WORKS				
1	Visit to site, collection of site details. Layout, organizing soil investigation and submission of reports to Corporate Office and field office.	Within 21 days		The in charge Addl.EE/EE/ 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 150 days	Location to be got approved from Engineer in charge.	
3	Yard leveling i.e Land Development	Within 15 days	Within 165 days	The scope of work and estimated cost to be got approved from C.E.(Civil) In charge of works	
4	Compound Wall	Within 21 days	Within 600 days		
5	WBM Road	Within 365 days	Within 575 days		
6	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).	
7	Civil foundation for:		•	•	
	Gantries	Within 30 days	Within 330 days		
	Equipments	Within 120 days	Within 360 days		
	Transformers	Within 45 days	Within 240 days		

Cable Trench	Within 210 days	Within 450	
		days	

8	Control Room			
	i) Foundations &	Within 45 days	Within 120	
	plinth work		days	
	ii) Brick work upto	Within 90 days	Within 180	
	lintel		days	
	iii) Lintel to slab and	Within 180 days	Within 280	
	casting of slab		days	
	iv) Flooring,	Within 310 days	Within 400	
	Plastering, cable		days	
	trenches, Doors and			
	Windows			
	v) Painting &	Within 400 days	Within 450	
	finishing		days	
9	Watchmen Cabin &	Within 330 days	Within 360	
	Cycle Stand		days	
10	Chainlink Fencing	Within 470 days	Within 620	
			days	
11	Metal Spreading &	Within 570 days	Within 720	
	Earthing Pipe Line		days	
12	Asphalting Of	Within 630 days	Within 720	
	Roads		days	

STANDARD ACTIVITY SCHEDULE FOR PAYMENT ELIGIBILITY

T-1921 (RFx No. 6000000715) Work of construction of 400 kV MC line on. MC towers by making LILO on both ckts. of 400 kV Lonikand-II (ckt.-1 & II) — Girawali line — 6.0 km.

COMPLETION PERIOD = 12 MONTHS

Sr.	ACTIVITY	Schedule for completion of activities from date of LOA		Domonta/ Hold points for payments
No.		Commencement	Scheduled period of completion	Remarks/ Hold points for payments
1	Submission of performance B.G. in lieu of S.D.		Within 10 days	
2	Visit to site, verification of scope of work, Establisment 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	Requsition 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 i 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:	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

<u>T-1921 (RFx No. 6000000715) Work of construction of 220 kV DC line from 220 kV Bhose (Belwandi) s/s to prop. 400 kV Karjat s/s — 32.0 km</u>

COMPLETION PERIOD = 18 MONTHS Schedule for completion of activities from date of LOA Sr. ACTIVITY Remarks/ Hold points for payments No. Scheduled period Commencement of completion Submission of performance B.G. in lieu of Within 10 days S.D. Visit to site, verification of scope of work, Establisment of site office and mobilisation After 5 days Within 20 days of gang 3 Signing of contract agreement After 10 days Within 30 days Trial pits and inspection of route After 7 days Within 21 days Preliminary & Detailed Survey After 15 days Within 105 days At the rate minimum 20 km per month Check survey After 10 days Within 220 days At the rate minimum 10 km per month 6 Approval of detailed /check survey & trial After 20 days Within 145 days Requsition of drawings of towers, stubs After 5 days Within 20 days templates Issuance of all drawings for execution by Copy of trial pits report duly approved by After 10 days Within 30 days Engineer in Charge be furnished MSETCL 10 Collection of drawings by Contractor 5 days 15 days Preparation of shop drawings 15 days 45 days Proto manufacturing, assembly of tower, 12 submission of call for inspection (if After 30 days Within 60 days applicable) 13 Proto inspection After 37 days Within 70 days Supply to be effected within 15 days after Within 300 days 14 Supply of stub & stub setting templates After 20 days approval of check survey Tower foundation After 20 days At the rate minimum 15 locations per month 15 Within 400 days The foundation should have been casted for tower under supply. The towers to be Supply of tower material After 60 days Within 420 days supplied on per tower basis within 15 days of casting of foundation. 50% tower foundations should be completed, Erection of tower After 80 days Within 450 days Erection @ 30 loc. per month. Supply of conductor, earthwire, insulators for Contractor's confirmation about complete accessories towers & conductor /groundwire After 180 days Within 480 days erection of towers of equivalent route length & insulator Hardware. is ready for stringing Atleast 50% of towers should have been 19 Within 500 days Stringing of line After 190 days erected. Progress @ 6 KM/Month

Sr	ACTIVITY	Schedule for completion of activities from date of LOA		Remarks/ Hold points for payments
No		Commencement	Scheduled period of completion	Remarks, from points for payments
20	Miscellaneous works (fixing of tower accessories,tree cutting etc.)	After 220 days	Within 510 days	
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.