



# MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD

### (CIN No.U40109MH2005SGCI53646)

Office of the Executive Engineer EHV O & M DIVISION-I,PUNE

Block No.406,Admn.Building,3<sup>rd</sup> Floor,Rasta Peth,PUNE – 411011

□ : 26131362 (O) E-mail- ee6140@mahatransco.in

No.: EE/EHV O &M/DN.-I/PUNE/Tech./471

own work at various lines

Date:05.06.2020

**Subject:** - E- enquiry for the rate contract for attending emergency Break down work at various lines under EHV O & M Dn –I. Pune ..

### Dear Sir,

Quotations are invited through mail upto 11:00 Hrs.on dtd. 12.06.2020 by the undersigned for above work from the reputed experienced/ registered bidders as described in Schedule attached herewith with following Terms & Conditions.

#### TERMS AND CONDITIONS:

The following documents should be submitted alongwith quotation,

- a) Copy of Valid Electrical contract registration
- b) Copy of valid shop act
- c) Copy of Pan card
- d) Work experience certificate of similar work executed (not below the rank of Executive Engineer)
- e) Valid registration under GST
- 1) The right to place an order for part or to cancel any or all quotations without assigning any reasons is reserved with this office.
- 2) Validity period should be not less than 120 days from the date of submission of offer.
- 3) **Work completion Period**: The work should be completed within 30 days from the date of handing over of site.
- 4) **Supervision of Work**:-The work shall be carried out under the supervision of the Add. Executive Engineer, EHV Line Maintenance S/Dn-I, Pune or his representative.
- 5) **Security Deposit**: You have to remit, Security Deposit @ of 5% of the total value of the order in this office in Cash/ by D.D./ B.G./ fixed deposit in nationalized or scheduled bank after acceptance of order & before execution of work. If you fail to do so, the SD will be recovered from your first bill with interest. Also, you will have to apply for refund of SD within 6 months after completion of guarantee period. If you fail to apply within stipulated period, action as per company's rules will taken
- 6) The T&P/ labour/ machinery/ equipment/ material required for the work shall be on your account.
- 7)**Penalty**: In case of failure to complete the work in stipulated time as mentioned above, you will be liable to pay penalty at rate of 1/2% per week subject to maximum limit of 10% of the total values of the order.

- 8) **Accident**: The contractor shall ensure the safety of all the workmen, materials and equipment at work site. The contractor shall be responsible for providing of all safety notices and safety equipment required. If any accident occurs to any person, labour skilled or unskilled, compensation if any is to be paid by the contractor only.
- 9) Any breakage/damage occurred to MSETCL material/ Equipment / theft of material if any, asset during the work shall be recovered from your bills as per rules.
- 10) The contractor shall not be entitled to claim any interest on amount payable to him.
- 11) You shall not entrust the work on sub-contract /transfer or assign the contract or any part thereof to any third party. In case any deviations observed it will be treated as breach of contract and the contract will be terminated at your entire risk and cost.
- 12) **Agreement:-** You have to execute an agreement on Rs.500/- Bond paper after receipt of work order & cost of agreement to be borne by the agency
- 13) You should be fully aware of the MSETCL's General Condition for execution of work and same is applicable to this contract also. Any of the condition will not exempt you from your liability to be abiding by the same.
- 14) **Income tax**: If applicable will be deducted as per rules/ otherwise you will have to submit income tax exemption certificate or income tax registration no. of your firm PAN No.
- 15) In case of difference of opinion, misinterpretation of any of the condition of the contract. In connection with or arising out of the condition or during the period work, the decision of the under signed shall be final & binding on you.
- 16) While execution of work, if any loss is caused to MSETCL, the same will be recover from you & you will have to make good the loss, work to be attended by you at your cost & risk only.
- 17) **Jurisdiction**: All disputes, differences related to the tender contract shall be subject to the exclusive jurisdiction of Pune District Court.

Thanking you,

Yours faithfully,

Sd/(V.D. Bhujbal)
Executive Engineer
EHV O&M Division-I Pune

Copy s.w.rs to: 1. The Chief Engineer, EHV PC O&M Zone, Pune

2. The Superintending Engineer, EHV O&M Circle, Pune

**Copy to:** 1. The Dy. Manager (F&A), Division-I, Pune.

## SCHEDULE 'A'

Sub:- Estimate for Annual Rate Contract (for two years) for the work of attending emergency breakdown works on various 220/132 kV EHV lines under EHV O&M Division I Pune

Sr No	Description of Material & Works	UOM	Ex Rate	GST @18%	RATE incl of taxes
Schedu	lle A) ERECTION PORTION				
1	Mobilization & Deamobilization of T&P, labours to the site location to attend planned work in "Outage" from respective division. (Applicable for min. 15 labours)	Per Occasion	17910	3223.80	21133.80
2	Mobilization & Deamobilization of T&P, labours to the site location to attend "Breakdown" from respective division.(Applicable for min. 15 labours)	Per Occasion	34826	6268.68	41094.68
3	Replacement of Suspension/Pilot string Work involved -Hook out suspension clamp from disc insulator string, Hook out suspension string from the hanger, take it out on ground, erect new suspension string by hooking it in hanger, refix suspension clamp.				
	a) Replacement of Single Suspension string SSN insulators in Plain, Hilly/Creak Area of Single Circuit, Double Circuit, dead line or having one circuit live or other circuit dead.	Per String	8955	1611.90	10566.90
	b) Replacment of Suspension string SSN insulatros in Plain, Hilly/Creak Area Multicircuit Line.	Per String	9950	1791.00	11741.00
	c) Replacement of Double Suspension string DSN insulators in Plain, Hilly/Creak Area of Single Circuit line dead line, Double Circuit, dead line or having one circuit live or other circuit dead.	Per String	8955	1611.90	10566.90
	d) Replacement of Suspension string DSN insulators in Plain, Hilly/Creak Area of Multicircuit Line.	Per String	11940	2149.20	14089.20
	II) PILOT STRING				
	a) Replacement of Pilot string insulators in Plain, Hilly/Creak Area of Single Circuit, Double Circuit, dead line or having one circuit live or other circuit dead.	Per String	5970	1074.60	7044.60
	b) Replacment of Pilot string insulators in Plain, Hilly/Creak Area of Multicircuit Line.	Per String	6965	1253.70	8218.70

4	Replacement of tension string insulators DTN/STN Work involved - Taking tension on the conductor on which Tension string is to be replaced, Hooking out tension hardware from tension plate, take down the string on the ground, replace it with new tension string and re-fix the same at tension plate by using come-along clamps and other tensioning equipments and adequate manpower.				
	TENSION STIRNG				
	a) Replacment of tension string insulators STN in Plain, Hilly/Creak area of Single Circuit dead line.	Per String	11940	2149.20	14089.20
	b) Replacement of tension string insulators STN in Plain Hilly/Creak area of Double Circuit line having one circuit live & one circuit dead.	Per String	12935	2328.30	15263.30
	c) Replacement of tension string insulators STN in Plain, Hilly/Creak area of Multicircuit Line.	Per String	12935	2328.30	15263.30
	d) Replacement of tension string insulators DTN Plain, Hilly/Creak Area of Single Circuit dead.	Per String	17910	3223.80	21133.80
	e) Replacement of tension string insulators DTN in Plain, Hilly/Creak area of Double Circuit line having one circuit live & one circuit dead.	Per String	18905	3402.90	22307.90
	f) Replacement of tension string insulators DTN in Plain, Hilly/Creak area of Multicircuit Line.	Per String	19900	3582.00	23482.00
5	Replacements of tower cross arms				
	i) For single circuit dead line tower.				
	Suspension / Cut Point Tower	Cross Arm	19900	3582.00	23482.00
	ii) For D/C tower one circuit dead & one circuit live				
	Suspension / Cut Point Tower	Cross Arm	24876	4477.68	29353.68
	iii) For M/C towr all circuits of one side dead & all circuits of other side live				
	Suspension / Cut Point Tower	Cross Arm	29851	5373.18	35224.18

6	Fixing/ crimping of compression type clamps, connectors, Hardwares (Material supplied by MSETCL) Work involved - Taking the compression type clamp/connector on the conductor, fixing it property at desired place, crimping machine of adequate capacity on the conductor.				
	a) Replacement Single T connector suitable for 0.1 to 0.5 ACSR Conductor & 525 sqmm. Cond.	No.	796.00	143.28	939.28
	b) Fixing Repair sleeves for 0.1 to 0.5 ACSR Conductor & 525 Sqmm. Cond.	No.	4975.00	895.50	5870.50
	c) Fixing of Twin 'T' connector suitable for 0.1 to 0.5 ACSR & 525 Sqmm. Cond.	No.	1493.00	268.74	1761.74
	d) Fixing of Mid span joint suitable for 0.1 to 0.5 ACSR & 525 Sqmm. Cond.	No.	1194.00	214.92	1408.92
	e) Replacement /tightening of jumper Nut bolts	No.	50.00	9.00	59.00
	f) Fixing of Corona Ring (Suspension/Tension)	No.	697.00	125.46	822.46
	g) Replacement of Jumper Cone/Jumper suitable for 0.1 to 05 ACSR Conductor & 525 Sqmm. Cond. Work involved - Removing the jump cone from hardware, replace it with new one if the conductor jumper length is sufficient, Else crimping of new jump cones at both ends	No.	1194.00	214.92	1408.92
	h)Replacement single/Double Tension hardware suitable for 0.1 to 0.4 ACSR conductor .work involved- Taking tension on the conductor on which Tension hardware is to be replaced , Hooking out tension hardware from tension plate, take down the string on the groung , replace it with new tension hardware and re-fix the same at tension plate by using come-along clamps and other tensioning equipments and adequate manpower.	No.	1990	358.20	2348.20
	i) Replacement single/Double Suspension Hardware suitable for 0.1 to 0.4 ACSR conductor. Work involved- Hook out suspension clamp from disc insulator string, Hook out suspension string from the hanger, Fix new suspension hardwrae & hook it in hanger	No.	1493	268.74	1761.74
	Fixing of PA rods suitable for 0.1 to 0.4 ACSR conductor	Nos.	796	143.28	939.28

		1			
	Fixing of vibration Damper suitable for 0.1 to 0.4 ACSR conductor	Nos.	796	143.28	939.28
	Fixing of vibration damper suitable for suitable 7/3.15 mm earth wire	Nos.	398	71.64	469.64
	Fixing of conical type bird guard	Nos.	498	89.64	587.64
7	Dismantling / Destringing of the conductor with complete, dismantled material transported to site store as directed (With to be deleted)		#REF!	#REF!	#REF!
	a) Single Circuit Dead Line OR having other circuit live.	RMT/Phase	30.00	5.40	35.40
	b) Single Circuit of M/C tower, having other Circuit Live.	RMT/Phase	40.00	7.20	47.20
8	Restringing of the conductor with complete, dismantled material transported to site store as directed (Dismantled to be deleted)		#REF!	#REF!	#REF!
	a) Single Circuit Dead Line OR having other circuit live.	RMT/Phase	40.00	7.20	47.20
	b) Single Circuit of M/C tower, having other Circuit Live.	RMT/Phase	50.00	9.00	59.00
9	Tightening of Jumper Nut Bolts at angle tower at both side jump i.e. 6 Nos. for one circuit of D/C or M/C Tower including replacement wherever necessary.	Per Circuit per Tower.	697.00	125.46	822.46
10	Dismantling / Destringing of the Earth wire with complete, dismantled material transported to site store as directed.		#REF!	#REF!	#REF!
	a) Single circuit & double circuit dead line	RMT/Phase	16.00	2.88	18.88
	b) Double Circuit line & Multi Circuit line.	RMT/Phase	20.00	3.60	23.60
11	Restringing of the Earth wire with complete, dismantled material transported to site store as directed		#REF!	#REF!	#REF!
	a) Single circuit & double circuit dead line	RMT/Phase	20.00	3.60	23.60
	b) Double Circuit line & Multi Circuit line.	RMT/Phase	25.00	4.50	29.50
12	Replacement of rusted/damaged/missing members including, drilling,cuting,fabrication,transportation etc.	Nos.	498	89.64	587.64
13	Electric tack welding (half round welding) to G.I. nut bolts of tower from thread ends (Two spots to be welded to each nut bolt near thread end) and Painting the welded portion with two caots of zink rich paint.	Per bolt	20	3.60	23.60

14	Replacement of rusted /damaged "D" shackle /ball socket/hooks etc. (cost of replacement of insulator is assumed to be covered)				
	Suspension string, pilot string for jumper, Tension string	Nos.	896.00	161.28	1057.28
15	Patrolling				
a)	Ground pattroling during breakdown only:-work involved -checking of tress, bushes, foundation, earting, missing member, HT/LT/EHV Lines crossing, river crossing, road crossing, chimmney, number plates, danger board danger board etc.with plain eyes & insulator flashover, jumpers & its nut bolts, conductor, earthwire, vibration damper, Spacers, M.S. joint, Repair sleeves, corona rings etc. with binoculars,. Checking clearance for ground, Road, building, Submission of report				
i)	For distance starting from source S/Stn upto 30 KM	KM	1493.00	268.74	1761.74
ii)	For distance starting from source S/Stn above 30 KM	KM	1990.00	358.20	2348.20
b)	Monkey Patrolling during brakdown only (by authorized personnel only). In addition to above work involved-Checking of coductor deformation, earthwire ,earthbond,hardware,jumper cones and its nut bolts,bird guards, tightness of nut bolts of tower visually flashover, birdsheet,checking of broken/contaminated/flashover disc insulators,Split pin,sag etc. Submission of report including soft copy of photos				
a)	Single Circuit	Per Tower	1000	180.00	1180.00
b)	Double Circuit	Per Tower	1500	270.00	1770.00
c)	Multi Circuit	Per Tower	2000	360.00	2360.00
16	Work of cold line cleaning (Manually) of Suspension Disc Insulator strings of 220kV & 132kV EHV lines	Per string	498	89.64	587.64
17	Work of cold line cleaning (Manually) of Tension Disc Insulator strings of 220kV & 132kV EHV lines	Per string	597	107.46	704.46
18	Dismantling charges for Tower	MT of tower weight.	5220	939.60	6159.60

19	Complete erection of DC/MC/Horizontal tower (Including special towers) with its extensions for EHV Lines( as per requirment) with fixing of bolts and nuts, tightening ,punching and fitting including attachments (like step bolts, ladders, platforms, "U" bolts, shackles,hangers, strain plates etc) and including transportation of materials from site stores to work sites, tightening and punching of Bolts and Nuts complete in all respect, punching of bolts, fixing of danger plates, fixing of number plates, fixing of phase plates, fixing of anticlimbing device, fixing of circuit plate etc.	MT of tower weight.	6525	1174.50	7699.50
20	Electric tack welding(half round welding) to GI Nuts & Bolts of tower from thread ends (Two spots to be welded to each Nut & Bolts near thread end) and and painting the welded portion with two coats of Zinc rich paint upto 220 KV MC. Two sections of each tower.	Per Tower	3300	594.00	3894.00
21	Electric tack welding(half round welding) to GI Nuts & Bolts of tower from thread ends (Two spots to be welded to each Nut & Bolts near thread end) and and painting the welded portion with two coats of Zinc rich paint upto 220 KV DC. Two sections of each tower.	Per Tower	2400	432.00	2832.00
22	Pipe type earthing: Normal earthing including excavation of pits/ trenches, laying of earthing pipe, strips, flats, etc supplying and laying salt and soft coke as directed and as per the drawing to be furnished by the owner and back filling, complete in all respects. Inclusive of G.I. pipe and GI strip / Flat & Nuts and bolts	Nos.	5050	909.00	5959.00
23	Counter Poise type Earthing: Including excavation of pits/ trenches, laying of earth wire and fitting plates/ lugs to tower legs including supply of all materials (Viz. GI wire, lugs, nuts and bolts etc) and back filling, complete in all respect as per drawing to be furnished by the owner. Inclusive of G.I. Wire,lugs,nuts & bolts etc.	Nos.	11110	1999.80	13109.80
24	Fixing of antitheft nutbolt	Nos.	50	9.00	59.00
25	Fixing of step bolt	Nos.	50	9.00	59.00

Schedu	de B) SUPPLY PORTION				
Sr No	Description of Material & Works	UOM	Ex Rate	GST @18%	RATE incl of taxes
	Supply of clamps, connectors, Hardwares, Tower Accessories etc. as per MSETCL, approved drawings.				
1	Single Tension hardware suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	3144	565.92	3709.92
	ii) 0.2 ACSR Panther conductor.	No.	3144	565.92	3709.92
	iii) 0.3 ACSR Goat Conductor.	No.	3144	565.92	3709.92
	iv) 0.35 ACSR Sheep Conductor	No.	3144	565.92	3709.92
	v) 0.4 ASCR Deer Conductor.	No.	3157	568.26	3725.26
	vi) 0.4 ASCR Zebra Conductor.	No.	3157	568.26	3725.26
	vii) AAAC 525 Sq MM Conductor.	No.	3245.00	584.10	3829.10
2	Single Suspension Hardware suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	2707	487.26	3194.26
	ii) 0.2 ACSR Panther conductor.	No.	2707	487.26	3194.26
	iii) 0.3 ASCR Goat Conductor.	No.	2707	487.26	3194.26
	iv) 0.35 ACSR Sheep Conductor	No.	2707	487.26	3194.26
	v) 0.4 ASCR Deer Conductor.	No.	2838	510.84	3348.84
	vi) 0.4 ASCR Zebra Conductor.	No.	2838	510.84	3348.84
	vii) AAAC 525 Sq MM Conductor.	No.	2969.00	534.42	3503.42
3	Double Tension hardware suitable for				
	i) 0.2 ACSR Panther Conductor.	No.	6856.00	1234.08	8090.08
	ii) 0.4 ASCR Deer Conductor.	No.	7948.00	1430.64	9378.64
	iii) 0.4 ASCR Zebra Conductor.	No.	7948.00	1430.64	9378.64
4	Double Suspension Hardware Suitable for				
	i) 0.2 ACSR Panther Conductor.	No.	5240	943.20	6183.20
	ii) 0.4 ASCR Deer Conductor.	No.	6048	1088.64	7136.64
	iii) 0.4 ASCR Zebra Conductor.	No.	6048	1088.64	7136.64
5	Single T connectors suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	1266.00	227.88	1493.88
	ii) 0.2 ACSR Panther conductor.	No.	1266.00	227.88	1493.88
	iii) 0.3 ASCR Goat Conductor.	No.	1266.00	227.88	1493.88
	iv) 0.35 ACSR Sheep Conductor	No.	1266.00	227.88	1493.88
	v) 0.4 ASCR Deer Conductor.	No.	1489.00	268.02	1757.02
	vi) 0.4 ASCR Zebra Conductor.	No.	1489.00	268.02	1757.02
	vii) AAAC 525 Sq MM Conductor.	No.	1489.00	268.02	1757.02
6	Repair Sleeves suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	271.00	48.78	319.78
	ii) 0.2 ACSR Panther Conductor.	No.	271.00	48.78	319.78
	iii) 0.3 ASCR Goat Conductor.	No.	271.00	48.78	319.78
	iv) 0.35 ACSR Sheep Conductor	No.	306.00	55.08	361.08
	v) 0.4 ASCR Deer Conductor.	No.	306.00	55.08	361.08
	vi) 0.4 ASCR Zebra Conductor.	No.	306.00	55.08	361.08

	vii) AAAC 525 Sq MM Conductor.	No.	524.00	94.32	618.32
7	Twin 'T' connector (with nut bolts) suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	2620.00	471.60	3091.60
	ii) 0.2 ACSR Panther conductor.	No.	2620.00	471.60	3091.60
	iii) 0.3 ASCR Goat Conductor.	No.	2620.00	471.60	3091.60
	iv) 0.35 ACSR Sheep Conductor	No.	2620.00	471.60	3091.60
	v) 0.4 ASCR Deer Conductor.	No.	3083.00	554.94	3637.94
	vi) 0.4 ASCR Zebra Conductor.	No.	3083.00	554.94	3637.94
	vii) AAAC 525 Sq MM Conductor.	No.	3083.00	554.94	3637.94
8	Mid span joint suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	760.00	136.80	896.80
	ii) 0.2 ACSR Panther conductor.	No.	760.00	136.80	896.80
	iii) 0.3 ASCR Goat Conductor.	No.	760.00	136.80	896.80
	iv) 0.35 ACSR Sheep Conductor	No.	760.00	136.80	896.80
	v) 0.4 ASCR Deer Conductor.	No.	917.00	165.06	1082.06
	vi) 0.4 ASCR Zebra Conductor.	No.	917.00	165.06	1082.06
9	vii) AAAC 525 Sq MM Conductor. <b>Jumper Cone</b> suitable for	No.	917.00	165.06	1082.06
	i) 0.1 ACSR Dog Conductor.	No.	437.00	78.66	515.66
	ii) 0.2 ACSR Panther conductor.	No.	568.00	102.24	670.24
	iii) 0.3 ASCR Goat Conductor.	No.	568.00	102.24	670.24
	iv) 0.35 ACSR Sheep Conductor	No.	568.00	102.24	670.24
	v) 0.4 ASCR Deer Conductor.	No.	873.00	157.14	1030.14
	vi) 0.4 ASCR Zebra Conductor.	No.	873.00	157.14	1030.14
	vii) AAAC 525 Sq MM Conductor.	No.	873.00	157.14	1030.14
10	S. S. Nut bolts.	No.	79.00	14.22	93.22
11	G.I. Nut bolts.	No.	39.00	7.02	46.02
12	Twin cushion spacer cum damper suitable for 525 Sq MM conductor.	No.	1092.00	196.56	1288.56
13	Providing of Twin Rigid spacer for jumper suitable for 525 SqMM Conductor.	No.	1092.00	196.56	1288.56
14	Twin bushing type spacer suitable for 525 Sq MM Conductor.	No.	1092.00	196.56	1288.56
15	PA rods suitable for		#REF!	#REF!	#REF!
	i) 0.1 ACSR Dog Conductor.	No.	1135.00	204.30	1339.30
	ii) 0.2 ACSR Panther conductor.	No.	1135.00	204.30	1339.30
	iii) 0.3 ASCR Goat Conductor.	No.	1135.00	204.30	1339.30
	iv) 0.35 ACSR Sheep Conductor	No.	1135.00	204.30	1339.30
	v) 0.4 ASCR Deer Conductor.	No.	1725.00	310.50	2035.50
	vi) 0.4 ASCR Zebra Conductor.	No.	1725.00	310.50	2035.50
	vii) AAAC 525 Sq MM Conductor.	No.	1725.00	310.50	2035.50

16	Tension hardware suitable for suitable earth wire	No.	699.00	125.82	824.82
17	Suspension hardware suitable for suitable earth wire	No.	699.00	125.82	824.82
18	Mid span joints suitable for suitable earth wire	No.	175.00	31.50	206.50
19	Vibration Damper suitable for				
	i) 0.1 ACSR Dog Conductor.	No.	655.00	117.90	772.90
	ii) 0.2 ACSR Panther conductor.	No.	655.00	117.90	772.90
	iii) 0.3 ASCR Goat Conductor.	No.	655.00	117.90	772.90
	iv) 0.35 ACSR Sheep Conductor	No.	655.00	117.90	772.90
	v) 0.4 ASCR Deer Conductor.	No.	764.00	137.52	901.52
	vi) 0.4 ASCR Zebra Conductor.	No.	764.00	137.52	901.52
	vii) AAAC 525 Sq MM Conductor.	No.	873.00	157.14	1030.14
20	Vibration Damper for suitable earth wire	No.	349.00	62.82	411.82
21	Conical type bird guard/Bird guard (Hot Dip galvavised, saw-tooth type)	No.	873.00	157.14	1030.14
22	Providing of antitheft nutbolt	Nos.	87	15.66	102.66
23	Providing of step bolt	Nos.	87	15.66	102.66

## **Amount :- Limited to 3.00 Lakhs**

The contractors have to quote above/below/At par in % in respect of total Amount. The contractor should not quote above/below/At par of individual items, such Price bid will be rejected.

1.	% Below ( In words	) of the above total estimated cost.
2.	<b>At Par</b> ( In words	) of the above total estimated cost.
3.	<b>Above</b> (In word	) of the above total estimated cost.

Dated	
Signature of Contractor with	Seal
Name	
Address	

Sd/-(V.D. Bhujbal) Executive Engineer EHV O&M Division-I Pune