

SOR for Various types of O&M works related to Transmission Line (Including ERS works)

Sl. No	Description of Work	Unit	Rates (without GST)
1	Re- Jumpering of damaged/snapped jumper of the Transmission Line.		
a	For 132kV TL	No	₹ 1,568.16
b	For 220kV TL	No	₹ 1,760.00
2	Replacement of damaged disc insulator of Suspension point per string.		
a	For 132kV TL	Per String	₹ 2,750.00
b	For 220kV TL	Per String	₹ 4,400.00
3	Replacement of damaged disc insulator of Tension point per string.		
a	For 132kV TL	Per String	₹ 9,900.00
b	For 220kV TL	Per String	₹ 12,100.00
4	Stringing of Conductor		
a	For 132kV TL	Per KM/Per Conductor	₹ 44,000.00
b	For 220kV TL	Per KM/Per Conductor	₹ 46,200.00
5	Replacement of hardware fittings like vibration dumpers etc.		
a	For 132kV TL	Per Job	₹ 1,760.00
b	For 220kV TL	Per Job	₹ 1,760.00
6	Fabrication/Repairing/replacement of missing tower members.	Per MT	₹ 30,250.00
7	Head loading of tower materials, conductors etc (For Hilly areas)	Per MT/Mtr	₹ 1,760.00
8	Repairing/replacement of damage leg etc including all necessary civil work.	Per Leg	₹ 9,350.00
9	Stringing of Ground wire.	Per KM	₹ 6,600.00
10	Attending emergency hot spot in the Transmission Line.	Per Job	₹ 1,320.00
11	Jungle Cleaning in the corridor of the Line.	Per KM	₹ 1,650.00
12	Emergency tree/bamboo clearing in the corridor of the line (during fault)	Per Section	₹ 1,760.00
13	Temporary Protection using bamboo palisade with gunny bag fill of sands of Tower legs washout due to erosion.	Per SQMtr	₹ 2,420.00
14	Repairing/Replacement of Damaged Cross Arm. <small>(Materials will be supplied by AEGCL)</small>		
a	Suspension Type , 132kV Level	Per Job	₹ 12,650.00
b	Tension Type, 132kV Level	Per Job	₹ 12,801.80
c	Suspension Type , 220kV Level	Per Job	₹ 16,060.00
d	Tension Type, 220kV Level	Per Job	₹ 13,750.00
15	Earthing of per tower (Including supply of all earthing materials)	Per tower	₹ 6,050.00
16	Opening and lowering of conductor/Ground wire/OPGW including all hardware fitting	Per KM/Per Conductor	₹ 24,829.20
17	Welding of nuts and bolts	Per Towers	₹ 11,906.40
18	Erection of superstructures	Per MT	₹ 12,414.60
19	PCC, RCC/muffling work upto 1.2 mts from ground level	Per Leg	₹ 8,542.60
20	Dismantling of Complete Tower and transport the same to store	Per MT	₹ 9,317.00
21	Restringing of conductor for adjustment of sag (With support of Roller)	Per KM/Per Conductor	₹ 16,500.00
22	Head loading of tower materials, conductors etc (for Plain areas) (For Carriage beyond 10Mts)	MT/M	₹ 1,760.00
23	Painting of towers with bituminous paints of approved quality up to 3 mts from ground level including the cost of the paint	Per Tower	₹ 7,150.00

Sl. No	Description of Work	Unit	Rates (without GST)
24	Erection of ERS for line shifting		
a	Preparation and leveling of site	job	₹ 9,350.00
b	Sorting and loading of ERS and T&P material	job	₹ 5,000.00
	ERS tower materials carrying from AEGCL store and unloading at site camp	Upto 30KM each Truck	₹ 11,940.00
c		Beyond 30KM	₹16.00/MT/KM
d	Carrying of ERS materials from head camp to site camp by head load	job	₹ 3,575.00
e	Anchoring (including excavation) for 5 nos of Anchors	job	₹ 6,050.00
f	Erection of 1 ERS tower	job	₹ 13,200.00
g	Dismantling of conductors (3 nos) from the existing line of location	job	₹ 5,500.00
h	Restrining of conductors (3 nos) in the ERS tower including changing of damaged insulators, jointing and repairing of the conductors	job	₹ 12,650.00
i	Opening, repairing and refitting of jumpers	job	₹ 1,760.00
j	Dismantling of the conductors (3 nos) from ERS tower	job	₹ 6,600.00
k	Dismantling of 1 ERS tower including de-Anchoring	job	₹ 11,385.00
l	Restrining of conductors (3 nos) in the repaired existing tower including jointing etc complete	job	₹ 13,200.00
m	ERS tower materials shifting from work site to the site camp by head load	job	₹ 3,575.00
n	ERS tower materials loading and carrying from site camp and unloading at AEGCL store.	Upto 30KM	₹ 11,940.00
		Beyond 30KM	₹16.00/MT/KM
25	Hiring of single engine boat for laying and stringing conductors	Per Boat Per Day	As per prevailing market rate
26	Stringing of ACSR/AAAC conductors for river crossing for Brahmaputra river crossing and emergency flood situation of other river		
a	132KV Transmission line	Per KM/Per Conductor	150000
b	220KV Transmission line	Per KM/Per Conductor	150000
27	Minor repairing works of the conductor without lowering the conductor	per point of defect	3700

For 66KV Transmission lines, rates of 132KV Transmission line will be applicable

SOR for Various types of O&M works in Sub-Stations

Sl. No	Description of Work	Unit	Rates (without GST)
1	Replacement of damaged clamp of CT/PT		
	a For 33kV Level	Per Job	₹ 1,155.00
	b For 132kV Level		₹ 1,304.00
	c For 220kV Level		₹ 1,430.00
	d For 400kV Level		₹ 2,200.00
2	Replacement of damaged clamp of Isolator		
	a For 33kV Level	Per Job	₹ 1,155.00
	b For 132kV Level		₹ 1,304.00
	c For 220kV Level		₹ 1,430.00
	d For 400kV Level		₹ 2,200.00
3	Replacement of damaged clamp of Breaker		
	a For 33kV Level	Per Job	₹ 1,144.00
	b For 132kV Level		₹ 1,304.00
	c For 220kV Level		₹ 1,430.00
	d For 400kV Level		₹ 2,200.00
4	Replacement of damaged clamp of LA		
	a For 33kV Level	Per Job	₹ 1,155.00
	b For 132kV Level		₹ 1,304.00
	c For 220kV Level		₹ 1,430.00
	d For 400kV Level		₹ 2,200.00
5	Replacement of damaged clamp of CVT		
	a For 33kV Level	Per Job	₹ 1,210.00
	b For 132kV Level		₹ 1,304.00
	c For 220kV Level		₹ 1,430.00
	d For 400kV Level		₹ 1,681.90
6	Replacement of damaged clamp of Transformer		
	a LV Side upto 33kV Level	Per Job	₹ 1,320.00
	b HV Side above 33kV level.		₹ 1,650.00
7	Replacement of damaged clamp of Bus/etc		
	a Upto 132kV Level	Per Job	₹ 1,210.00
	b Above 132kV Level		₹ 1,650.00
8	Replacement of Jumper/Drop of CT		
	a Upto 132kV Level	Per Drop/Jumper	₹ 1,210.00
	b Above 132kV Level		₹ 1,760.00
9	Replacement of Jumper/Drop of Isolator		
	a Upto 132kV Level	Per Drop/Jumper	₹ 1,210.00
	b Above 132kV Level		₹ 1,540.00
10	Replacement of Jumper/Drop of Breaker		
	a Upto 132kV Level	Per Drop/Jumper	₹ 1,210.00
	b Above 132kV Level		₹ 1,540.00
11	Replacement of Jumper/Drop of LA		
	a Upto 132kV Level	Per Drop/Jumper	₹ 1,210.00
	b Above 132kV Level		₹ 1,540.00
12	Replacement of Jumper/Drop of CVT		
	a Upto 132kV Level	Per Drop/Jumper	₹ 1,210.00
	b Above 132kV Level		₹ 1,595.00
13	Replacement of Jumper/Drop of Transformer		
	a LV Side	Per Drop/Jumper	₹ 1,265.00
	b HV Side		₹ 1,595.00
14	Replacement of Jumper/Drop of Bus/etc		
	a Upto 132kV Level	Per Drop/Jumper	₹ 1,430.00
	b Above 132kV Level		₹ 1,682.00

Sl. No	Description of Work	Unit	Rates (without GST)
15	Dismantling of CT/PT in the Substation (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Unit	₹ 2,750.00
	b For 132kV Level (Without Structure)		₹ 5,390.00
	c For 220kV Level (Without Structure)		₹ 7,370.00
	d For 400kV Level (Without Structure)		₹ 8,800.00
16	Dismantling of CT/PT in the Substation (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Unit	₹ 2,750.00
	b For 132kV Level (With Structure)		₹ 6,380.00
	c For 220kV Level (With Structure)		₹ 8,250.00
	d For 400kV Level (With Structure)		₹ 9,350.00
17	Dismantling of LA/Post Insulator in the Substation (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Unit	₹ 2,750.00
	b For 132kV Level (Without Structure)		₹ 5,500.00
	c For 220kV Level (Without Structure)		₹ 6,600.00
	d For 400kV Level (Without Structure)		₹ 9,900.00
18	Dismantling of LA/Post Insulator in the Substation (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Unit	₹ 2,750.00
	b For 132kV Level (With Structure)		₹ 6,050.00
	c For 220kV Level (With Structure)		₹ 7,700.00
	d For 400kV Level (With Structure)		₹ 11,550.00
19	Dismantling of CVT in the Substation (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Unit	
	b For 132kV Level (Without Structure)		₹ 6,050.00
	c For 220kV Level (Without Structure)		₹ 7,150.00
	d For 400kV Level (Without Structure)		₹ 11,000.00
20	Dismantling of CVT in the Substation (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Unit	NA
	b For 132kV Level (With Structure)		₹ 6,820.00
	c For 220kV Level (With Structure)		₹ 7,150.00
	d For 400kV Level (With Structure)		₹ 13,200.00
21	Erection of CT/PT in the Substation (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Unit	₹ 3,080.00
	b For 132kV Level (Without Structure)		₹ 6,479.00
	c For 220kV Level (Without Structure)		₹ 8,789.00
	d For 400kV Level (Without Structure)		₹ 10,393.90
22	Erection of CT/PT in the Substation (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Unit	₹ 3,300.00
	b For 132kV Level (With Structure)		₹ 7,150.00
	c For 220kV Level (With Structure)		₹ 9,350.00
	d For 400kV Level (With Structure)		₹ 12,100.00
23	Erection of LA/Post Insulator in the Substation (including all necessary associated works)		
	a Upto 132kV Level (Without Structure)	Per Unit	₹ 2,420.00
	b Above 132kV Level (Without Structure)		₹ 4,400.00
	c Upto 132kV Level (With Structure)		₹ 5,720.00
	d Above 132kV Level (With Structure)		₹ 7,150.00

Sl. No	Description of Work	Unit	Rates (without GST)
24	Erection of CVT in the Substation (including all necessary associated works)		
	a Upto 132kV Level (Without Structure)	Per Unit	₹ 6,600.00
	b Above 132kV Level (Without Structure)		₹ 6,600.00
	c Upto 132kV Level (With Structure)		₹ 7,480.00
	d Above 132kV Level (With Structure)		₹ 8,580.00
25	Dismantling of Circuit Breaker (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Set	₹ 11,000.00
	b For 132kV Level (Without Structure)		₹ 12,650.00
	c For 220kV Level (Without Structure)		₹ 13,200.00
	d For 400kV Level (Without Structure)		₹ 16,830.00
26	Dismantling of Circuit Breaker (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Set	₹ 11,000.00
	b For 132kV Level (With Structure)		₹ 12,760.00
	c For 220kV Level (With Structure)		₹ 13,750.00
	d For 400kV Level (With Structure)		₹ 17,050.00
27	Erection of Circuit Breaker (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Set	₹ 11,000.00
	b For 132kV Level (Without Structure)		₹ 13,090.00
	c For 220kV Level (Without Structure)		₹ 14,520.00
	d For 400kV Level (Without Structure)		₹ 16,445.00
28	Erection of Circuit Breaker (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Set	₹ 11,000.00
	b For 132kV Level (With Structure)		₹ 13,200.00
	c For 220kV Level (With Structure)		₹ 15,950.00
	d For 400kV Level (With Structure)		₹ 17,600.00
29	Dismantling of Isolator (Tandem Type) (including all necessary associated works)		
	a For 132kV Level (Without Structure)	Per Set	₹ 8,250.00
	b For 220kV Level (Without Structure)		₹ 9,790.00
	c For 400kV Level (Without Structure)		₹ 16,500.00
30	Dismantling of Isolator (Tandem Type) (including all necessary associated works)		
	a For 132kV Level (With Structure)	Per Set	₹ 11,000.00
	b For 220kV Level (With Structure)		₹ 13,200.00
	c For 400kV Level (With Structure)		₹ 21,731.60
31	Erection of Isolator with (Tandem Type)(including all necessary associated works)		
	a For 132kV Level (Without Structure)	Per Set	₹ 10,091.00
	b For 220kV Level (Without Structure)		₹ 11,638.00
	c For 400kV Level (Without Structure)		₹ 18,700.00
32	Erection of Isolator (Tandem Type) (including all necessary associated works)		
	a For 132kV Level (With Structure)	Per Set	₹ 11,000.00
	b For 220kV Level (With Structure)		₹ 13,750.00
	c For 400kV Level (With Structure)		₹ 22,506.00
33	Dismantling of Isolator (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Set	₹ 7,150.00
	b For 132kV Level (Without Structure)		₹ 8,250.00
	c For 220kV Level (Without Structure)		₹ 9,350.00
	d For 400kV Level (Without Structure)		₹ 13,200.00

Sl. No	Description of Work	Unit	Rates (without GST)
34	Dismantling of Isolator (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Set	₹ 8,250.00
	b For 132kV Level (With Structure)		₹ 9,900.00
	c For 220kV Level (With Structure)		₹ 11,550.00
	d For 400kV Level (With Structure)		₹ 14,630.00
35	Erection of Isolator (including all necessary associated works)		
	a For 33kV Level (Without Structure)	Per Set	₹ 7,700.00
	b For 132kV Level (Without Structure)		₹ 9,900.00
	c For 220kV Level (Without Structure)		₹ 11,000.00
	d For 400kV Level (Without Structure)		₹ 12,415.00
36	Erection of Isolator (including all necessary associated works)		
	a For 33kV Level (With Structure)	Per Set	₹ 8,800.00
	b For 132kV Level (With Structure)		₹ 10,866.00
	c For 220kV Level (With Structure)		₹ 12,415.00
	d For 400kV Level (With Structure)		₹ 13,963.00
37	Dismantling of CR Panel (including all necessary associated works)		
	a For 33kV Level	Per Unit	₹ 6,050.00
	b For 132kV Level		₹ 7,150.00
	c For 220kV Level		₹ 7,700.00
	d For 400kV Level		₹ 9,350.00
38	Erection of CR Panel without SAS (including all necessary associated works)		
	a For 33kV Level	Per Unit	₹ 7,150.00
	b For 132kV Level		₹ 7,150.00
	c For 220kV Level		₹ 7,700.00
	d For 400kV Level		₹ 9,350.00
39	Jointing works of 33 KV power cable (Without supply)	Per Joint	₹ 2,750.00
40	Replacement of control cable.	Manday	As per AEGCL approved Manday rate
41	Laying of replaced power cable		
42	Recovery of Old Cable		
43	Attending emergency hot spot in the Sub Station.		
44	Dismantling of Battery Bank 110/220V	Per Job	₹ 5,500.00
45	Erection of Battery Bank 110/220V	Per Job	₹ 4,912.60
46	Dismantling of station service Transformer	Per Job	₹ 13,200.00
47	Erection of station service Transformer	Per Job	₹ 14,520.00
48	Dismantling of Wave Trap 132/220/400kV	Per Job	₹ 6,600.00
49	Erection of Wave Trap 132/220/400kV	Per Job	₹ 7,700.00
50	Replacement of Transformer Bushing HV Side (Including all associated works) Bushing and Gasket will be supplied by AEGCL.		
	a At 132kV Level	Per Bushing	₹ 16,500.00
	b At 220kV Level	Per Bushing	₹ 22,000.00
	c At 400kV Level	Per Bushing	₹ 25,496.00
51	Switchyard Earthing		
	a Earthmat (With supply of earthing materials)	Per SQM	₹ 1,650.00
	b Laying of CI Flat Strip with connection to existing earthing system (Supply of Standard GI Strip)	Per Mtrs	₹ 1,870.00
	c Rod Electrode (With supply)	Per Unit	₹ 2,750.00
	GI Pipe electrode with earthpit (Incl. supply) 50MM Dia, 3Mtrs Length, 4.5mm thickness including all necessary related works	Per Unit	₹ 6,600.00

Sl. No	Description of Work	Unit	Rates (without GST)
52	Transportation of all equipments (Base rate) and other materials (Subject to pre engagement of departmental vehicle)		
	For Tata Magic or equivalent (Upto 700KG +/- 5%)	KM	₹3300 Plus ₹8.00/km
	For Bolero Camper or equivalent (Upto 1200KG +/- 5%)	KM	₹5500 Plus ₹10.00/km
	For 607 Truck or equivalent (Upto 2.5 Tons +/- 5%)	KM	₹6600 Plus ₹12.00/km
	For Truck or equivalent (Beyond 2.5 Tons)	KM	₹11000 Plus ₹15.00/km
53	Loading & unloading of Equipments	MT	₹13200 /MT
54	Replacement of circuit breaker pole (departmental supply)		
	33kV	Nos.	₹ 3,850.00
	132kV	Nos.	₹ 4,400.00
	220kV	Nos.	₹ 6,600.00
	400kV	Nos.	₹ 8,250.00
55	Fabrication of equipment structure CT, PT, CVT, PI, LA (with departmental supply)		
a	LA, CT, PT & CVT upto 33kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 5,500.00
b	LA, CT, PT & CVT for 132kV up to 220kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 6,270.00
c	LA, CT, PT & CVT for 400kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 7,150.00
d	CB upto 33kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 4,950.00
e	CB for 132kV to 220kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 5,500.00
f	CB for 400kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 6,050.00
g	Isolators upto 220kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 8,030.00
h	Isolators for 400kV Level (20% to be added with unit value for fabrication materials)	Per Job	₹ 9,020.00
56	Switchyard groundwire dismantling proper stacking, restringing	Mtrs	₹ 110.00



SOR for survey works for O&M works

SI. No	Description of Work	Unit	Rates (without GST)
1	Detailed survey using GPS, total work station, digital theodilite/ALTM including profiling, tower spotting and optimization of locations using computer aided techniques as well as other activities in the scope of work	1st 2KMs	₹ 95,000
		subsequent per KMs	₹ 19,872

Draft Empanelled Rates for OPGW Related Works in AEGCL

SI No	Description	Unit	Rates (without GST)
1	Survey of Transmission Line (for Live-Line installation OPGW)	1 Km	15,227.00
2	24F/48F (DWSM) Fibre Optic Installation(Live Line)	1 Km	₹ 95,172.00
3	Insatllation of Joint Box above ground (Including Splicing and Testing) 24 Fibres	1 nos.	₹ 39,971.80
4	48 F FODP installation and mounted on 19 inch Rack including splicing and LSPM , OTDR testing Link Commissioning.	1 nos.	₹ 2,85,516.00
5	Fibre Optic approach cable installation, hardware like ties/clips/cleats conduits, ducts , supports, fittings, accessories etc: 24 Fibre	1 Km	₹ 1,52,275.00
6	OPGW Drum Testing (Including Splicing Testing) 24 Fibres	1 Drum	₹ 39,972.00
7	Tools & tackles for stringing & transportation & to and fro	1 Lot	₹ 1,70,500.00

