

Vol. II of NIT No. T7DSX00002

Price Bid format

Name of Work: OHE Works, Section: Shikohabad to Farrukhabad (Gr 241)

Item No	Item Description (To be read in conjunction with technical specification)	Unit	Qty	Rate (Rs.)	Total amount	Weightage (In %)
A	B	C	D	E	F	G
1	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns (Item 4.3.1 of DSR)	sqm	500			0.0587%
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
2.1	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).(Item 4.1.3 of DSR) (Minimum grade of concrete shall be M15 as per IS 456).	Cum	975			3.2331%
2.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). (Item 4.1.2 of DSR) (Minimum grade of concrete shall be M20 as per IS 456).	Cum	100			0.3584%
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Mild steel and Medium Tensile steel bars (Item 5.22.1 of DSR)	kg	100			0.0033%
4	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil. (Item 2.8.1 of DSR)	Cum	50			0.0050%
5	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Ordinary rock (Item 2.9.1 of DSR)	Cum	10			0.0017%
6	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					0.0000%
6.1	All kinds of soil (Item 2.26.1 of DSR)	Cum	10			0.0003%
6.2	Ordinary or hard rock (Item 2.26.2 of DSR)	Cum	10			0.0006%
7	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (Item 2.25 of DSR)	Cum	30			0.0023%
8	Supply, Erection, Testing and Commissioning of galvanized steel structures excluding TTC & Portals and SPS	MT	740			33.7712%
9	Supply, Erection, Testing and Commissioning of fabricated & galvanized steel structures-TTC & Portal excluding SPS	MT	35			1.7960%
10	Supply, Erection, Testing and Commissioning of fabricated & galvanized steel work other than masts including SPS	MT	92			4.8595%
11	Supply, Erection, Testing and Commissioning of a Guy Rod Assembly	Each	360			1.1014%
12	Supply, Erection, Testing and Commissioning of Anchoring Arrangement of traction mast with Galvanized steel stranded wire	Each	45			0.1514%
13	Supply, Erection, Testing and Commissioning of conventional type single bracket assembly including insulators and inclined dropper	Each	1900			17.1740%

Bidders not to quote or write anything here

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No	specification)	Unit	Qty	(Rs.)	Total amount	(In %)
14	Supply, Erection, Testing and Commissioning of conventional type single bracket assembly including insulators, inclined droppers (For Polluted Zone)	Each	190	Bidders not to quote or write anything here	Bidders not to quote or write anything here	1.8891%
15	Supply, Erection, Testing and Commissioning of tramway type single bracket assembly including insulators, inclined droppers	Each	65			0.5288%
16	Additional item for 13, 14 and 15 for supporting two OHE (for bracket)	Each	10			0.0138%
17	Supply, Erection, Testing and Commissioning of pull-off arrangement for one OHE	Each	2			0.0181%
18	Supply, Erection, Testing and Commissioning of Copper Large Span wire	Mtr	50			0.0300%
19	Supply, Erection, Testing and Commissioning of suspension of one conventional OHE from head span	Each	2			0.0127%
20	Supply, Erection, Testing and Commissioning of Suspension /registration of contact wire only	Each	2			0.0181%
21	Supply, Erection, Testing and Commissioning of conventional type OHE along with all required Components including supply of dropper wire and tower wagon checking (Contact & Catenary wires are in purchaser scope of supply at Purchaser's stores as indicated in NIT) Including security cost (1 security guard per 5RKM, 3 security guards per day, total 90 Days).	KM	160			6.5822%
22	Supply, Erection, Testing and Commissioning of tramway type OHE along with all required Components including supply of dropper wire (Contact wires are in purchaser scope of supply at Purchaser's stores as indicated in NIT)	KM	4.5			0.0984%
23	Supply, Erection, Testing and Commissioning of all Aluminium 25 KV feeder/return conductor	Mtr	100			0.0081%
24	Supply, Erection, Testing and Commissioning of 150 Sq. mm copper Feeder wire	Mtr	500			0.3206%
25	Supply, Erection, Testing and Commissioning of insulated 65 Sq. mm cadmium catenary copper wire (Under over line Structures)	Mtr	80			0.1032%
26	Supply, Erection, Testing and Commissioning of earth wire including termination	KM	0.1			0.0042%
27	Supply, Erection, Testing and Commissioning of 3 pulley type regulating equipment with counter weight assembly for conventional type OHE	Each	195			5.8211%
28	Supply, Erection, Testing and Commissioning of 3 pulley type Regulating equipment with counter weight assembly for tramway type OHE	Each	8			0.2042%
29	Supply, Erection, Testing and Commissioning of materials for termination of single conductor of overhead equipment or a terminating wire for conventional and tramway type OHE	Each	13			0.0622%
30	Supply, Erection, Testing and Commissioning of materials for termination of Double Overhead equipment Conductor including insulator	Each	220			1.4024%
31	Supply, Erection, Testing and Commissioning of Insulator and Erection of materials for termination of all Aluminium 25 KV feeder/return conductor including insulator	Each	2			0.0104%
32	Supply, Erection, Testing and Commissioning of materials for termination of 150 Sq. mm Copper Feeder Wire	Each	64			0.5287%
33	Supply, Erection, Testing and Commissioning of materials for termination of Earth Wire	Each	2			0.0118%
34	Supply, Erection, Testing and Commissioning of anti-creep arrangement with 65 sq. mm catenary wire for Conventional and Tramway type OHE	Each	92			0.8496%
35	Supply, Erection, Testing and Commissioning of additional fittings at a turn out, diamond crossing and Overlap	Each	6			0.0090%
36	Supply, Erection, Testing and Commissioning of a cut-in-insulator	Each	93			0.4073%
37	Supply, Erection, Testing and Commissioning of a suspension insulator	Each	40			0.1740%

No	specification)	Unit	Qty	(Rs.)	Total amount	(In %)
38	Supply, Erection, Testing and Commissioning of 25 KV solid core Post insulator assembly	Each	100	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.4329%
39	Supply, Erection, Testing and Commissioning of 11 kV Post Insulator with insulator	Each	5			0.0140%
40	Supply, Erection, Testing and Commissioning of conventional type section insulator assembly including Insulator for OHE	Each	27			0.6068%
41	Supply, Erection, Testing and Commissioning of conventional type section insulator assembly including Insulator for tramway type OHE	Each	2			0.0405%
42	Supply, Erection, Testing and Commissioning of PTFE neutral section assembly	Each	3			0.7421%
43	Supply, Erection, Testing and Commissioning of 25 kV Single Pole Isolators without earth contact assembly	Each	25			0.7791%
44	Additional Items for Supply, Erection, Testing and Commissioning of an earth contact assembly in an isolator	Each	4			0.0166%
45	Supply, Erection, Testing and Commissioning of 105 Sq. mm large copper jumpers	Each	5			0.0127%
46	Supply, Erection, Testing and Commissioning of 50sqmm small copper jumpers	Each	685			0.3376%
47	Supply, Erection, Testing and Commissioning of an aluminium feeder jumper	Each	2			0.0027%
48	Supply, Erection, Testing and Commissioning of a large copper jumper 160 Sq. mm with accessories	Each	190			0.8187%
49	Supply, Erection, Testing and Commissioning of structure bond	Each	1730			0.7283%
50	Supply, Erection, Testing and Commissioning of longitudinal / inter Rail bond	Each	7050			2.9505%
51	Supply, Erection, Testing and Commissioning of transverse and special bond	Each	180			0.1030%
52	Supply, Erection, Testing and Commissioning of single earth electrode	Each	125			0.2480%
53	Supply, Erection, Testing and Commissioning of earth bus.	Mtr	480			0.0622%
54	Supply, Erection, Testing and Commissioning of Copper Strip 25x3 mm	Mtr	105			0.0351%
55	Supply, Erection, Testing and Commissioning of 8 SWG GI Wire	Mtr	1000			0.0199%
56	Supply, Erection, Testing and Commissioning of 36 mm x 28 mm Al. Tubular bus bar	Mtr	24			0.0203%
57	Supply, Erection, Testing and Commissioning of 25kV Solid Copper Busbar dia 18mm	Mtr	100			0.0691%
58	Supply, Erection, Testing and Commissioning of connectors/ terminals splice suitable for 36 mm x 28 mm Al. Tubular bus bar	Each	6			0.0076%
59	Supply, Erection, Testing and Commissioning of 25 KV Copper Busbar Connector & Terminal complete	Each	25			0.0352%
60	Transfer of equipment from one mast or support to another	Each	8			0.0250%
61	Dismantling of overhead equipment including SPS, DA, and cantilever but without structure	KM	2			0.0209%
62	Dismantling of OHE Portal/TTC boom / masts / uprights by cutting including SPS	MT	2			0.0080%
63	Splicing and extension of Anchor over Head Equipment	Each	1			0.0028%
64	Dismantling of regulating equipment with counterweight assembly	Each	1			0.0013%
65	Dismantling of Bracket assembly	Each	16			0.0072%
66	Dismantling of guy rod assembly	Each	4			0.0007%
67	Dismantling of an anti-creep arrangement	Each	1			0.0021%
68	Dismantling of Section Insulator Assembly	Each	2			0.0031%
69	Dismantling of Isolator Assembly	Each	2			0.0022%
70	Dismantling of a post/pin insulator	Each	2			0.0004%
71	Supply, Erection, Testing and Commissioning of Caution Board	Each	340			0.1756%
72	Supply, Erection, Testing and Commissioning of Engine Stop, Unwired, and Power Block Limit Board etc	Each	15	0.0155%		
73	Supply, Erection, Testing and Commissioning of shock treatment chart	Each	34	0.0572%		

No	specification)	Unit	Qty	(Rs.)	Total amount	(In %)
74	Supply, Erection, Testing and Commissioning of Enamel Number Plates on structures	Each	1800	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.4377%
75	Supply, Erection, Testing and Commissioning, Testing & Commissioning of Enamel Number Plates on equipments	Each	50			0.0135%
76	Supply, Erection, Testing and Commissioning of White Sunmica/Acrylic Sectioning Diagram for station, duly framed	Each	16			0.0538%
77	Supply, Erection, Testing and Commissioning of Sectioning Diagram Board for TPC, Traffic Control, OHE Depot, AEE Office etc	Each	2			0.0237%
78	Supply, Erection, Testing and Commissioning of Protective Screen (Set of 2nos.)	Each	18			0.2339%
79	Supply, Erection, Testing and Commissioning of approved make retro-reflective Number Plate	Each	260			0.1196%
80	Hiring Charge for 6/5 KVA 220V single phase DG set including starter, distribution board containing MCB, Ammeter, Voltmeter, Buzzer, 3 Nos. Color light bulb and kit kat fuse with operator and maintenance	Months	6			0.0406%
81	Running Cost of DG Sets with supply of fuel and other consumables @ 10Hrs per day	Hrs	1800			0.0672%
82	Supply, Erection, Oil filtration, testing & commissioning of 5 KVA Auxiliary Transformer (AT) including LV Box (Excluding supply of 5kVA AT)	Each	3			0.0276%
83	Supply, Erection, Oil filtration, testing & commissioning of 10 KVA Auxiliary Transformer (AT) including LV Box (Excluding supply of 10kVA AT)	Each	17			0.1610%
84	Supply, Erection, Oil filtration, testing & commissioning of 25 KVA Auxiliary Transformer (AT) including LV Box (Excluding supply of 25kVA AT)	Each	1			0.0106%
85	Supply, Erection, Testing and Commissioning of 25 KV DO Fuse Switch Assembly including insulator & Arcing horn for 'AT'.	Nos	21			0.2738%
86	Excavation of Cable Trench size-1.2mtr deep & 30 cm wide in normal soil & placing bricks on laid cable in cross position side by side	Mtr	500			0.0687%
87	Excavation of Cable Trench by horizontal direct drilling (HDD) work (boring size upto 125mm dia) upto 1.2mtr depth from the formation level of Track/road with RCC/DWC/HDPE Pipe	Mtr	100			0.0568%
88	Laying, Termination, Testing and Commissioning of LT Cables – 2Cx150sqmm	Mtr	100			0.0025%
89	Laying, Termination, Testing and Commissioning of LT Cables – 2Cx70sqmm	Mtr	500			0.0124%
90	Laying, Termination, Testing and Commissioning of LT Cables – 2Cx50sqmm	Mtr	150			0.0037%
91	Supply, Erection, Testing and Commissioning of 65mm dia GI pipe with GI flat clamp & required hardware	Mtr	125			0.0511%
92	Supply, Erection, Testing and Commissioning of 100mm dia GI pipe with GI flat clamp & required hardware	Mtr	15			0.0092%
93	Supply, Erection, Testing and Commissioning of Control and Distribution panel with Auto changeover switch 155A capacity (3 sources for CLS supply for 25 KVA AT as per latest RDSO specification	Nos	1			0.2226%
94	Supply, Erection, Testing and Commissioning of Control and Distribution panel with Auto changeover switch 63 A capacity (3 sources for CLS supply for 10 KVA AT as per latest RDSO specification.	Nos	17			1.0305%
95	Supply, Erection, Testing and Commissioning of Control and Distribution panel with Auto changeover switch 25 A capacity (3 sources for CLS supply for 5 KVA AT as per latest RDSO specification.	Nos	3			0.1364%
96	Erection of steel tubular or rail pole strut in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and secured with holding clamps, bolts, nuts, etc. as required (At each pole)	Each	16			0.0647%

No	specification)	Unit	Qty	(Rs.)	Total amount	(In %)
97	Supply, Erection, Testing and Commissioning of 9/11 mtr long galvanized RSJ pole with base plate in provided foundation (payble as per approved unit weight)	MT	3.2	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.1460%
98	Supply, Erection, Testing and Commissioning of galvanised stay set for 33 kV over head lines complete with 19/ 20 mm dia X 1.8 meter long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia G.I. stay wire and 33 kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.	Set	12			0.0323%
99	Supply, Erection, Testing and Commissioning of galvanised stay set for 11 kV over head lines complete with 19/ 20 mm dia X 1.8 meter long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia G.I. stay wire and 11 kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.	Set	4			0.0107%
100	Supply, Erection, Testing and Commissioning of stay set complete (galvanised) with 19/20 mm dia X 1.8 meter long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20mm X 60 cm), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required. For LT	Each	5			0.0133%
101	Supply, Erection, Testing and Commissioning of channel for 1.1/11/33 KV OH line, two channel 100x50x6mm, 1.5 mtr long having stud angle 50x50x6, 1.5 mtr long with top piece 100x50x.45 long with clamps, anti-climbing device etc.	MT	5			0.2641%
102	Supply, Erection, Testing and Commissioning of 11 kV disc insulator for 11 kV over head lines with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washers etc. as required.	Set	120			0.0593%
103	Supply, Laying, Testing and Commissioning of 3.5 x 120 sq mm, Al XLPE 1.1 KV grade armoured cable in trench & raising on pole.	Mtr	1600			0.3868%
104	Supply, Laying, Testing and Commissioning of 4C x 16 sq mm, Cu XLPE 1.1 KV grade armoured cable in trench & raising on pole.	Mtr	3500			0.2881%
105	Supply, Laying, Testing of 3.5C x 50 sq mm, Al XLPE 1.1 KV grade armoured cable in trench & raising on pole.	Mtr	250			0.0359%
106	Supply, Laying, Testing, Commissioning of 2C x 2.5 sq mm, Cu XLPE 1.1 KV grade armoured cable in trench & raising on pole.	Mtr	750			0.0472%
107	Supply, Erection, Testing and Commissioning of HDPE pipe of pproximate 150mm nominal inner dia shall be laid under the track at the depth of 1200mm from the formation level by method horizontal direct drilling (HDD) of suitable size. The HDPE pipe shall be as per IS-14930 part-II or latest. The item includes restoration of ballast and soil in original position.	Mtr	400			0.2274%
108	Supply and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Each	40			0.0113%
109	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	40			0.0081%

No	specification)	Unit	Qty	(Rs.)	Total amount	(In %)
110	Supply, Erection, Testing and Commissioning of 11 KV, 3 x 185sqmm out door heat shrinkable cable termination Kit with required accessories.	Each	8	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.0144%
111	Supply, Erection, Testing and Commissioning of 33 KV, 3 x 300sqmm out door heat shrinkable cable termination Kit with required accessories.	Each	24			0.0995%
112	Dismantling of over head lines comprising of copper/ aluminium over head conductor, G.I. wire, cross arms, insulators etc. as required.	KG	3200			0.1241%
113	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.	Each	5			0.0059%
114	Supply, Erection, Testing and Commissioning of outdoor LED lamp fitting complete.	NO	5			0.0131%
115	Supplying & Erection of control panel for platform lightning complete with all accessories	Each	1			0.0011%
116	Supply and fixing of GI pipe 150mm dia 'B' class 3 mtr. length of each pipe along the pole for protection of cables, pipe may be provided in excavated trench, wall, post and on structure with suitable MS clamps including bolt and nuts. The GI pipe should be embossed ISI marking. The GI pipe shall be conforming to IS-1239.	Mtr	48			0.0393%
117	Laying of cable and Excavation of Trench 1200mm deep and 600mm (350+250mm) width from the formation level and a bed of sand cushion for a height of 250mm shall be provided and cable shall be placed in mid of the sand, well burnt bricks shall be laid width wise above the cable (9 bricks/mtr for single cable) after this the excavated earth should be filled back dully ramming for consolidation through out the length of cable trench bringign it into original position. 2 Nos cables of 11/33kV, 3 Core above 120mm ² to 400mm ² will be laid, and the spacing between both cables should be 200mm. This will include the laying of loose coil and raising of cable on pole etc including all necessary cable accessories (Cable Ties, tags etc.)	Mtr	1000			0.2823%
118	Cutting/Dismantling of existing erected rail/tubular pole of height 9 to 12 mtr, from top of desired length and disconnecting related fittings like clamps, brackets, insulators etc. stacking and handing over to Railway store. Transportation will be done by contractor on his own cost. Before cutting the pole existing light fitting etc. to be removed and after cutting the pole same may be fitted on required height.	Nos	16			0.0034%
119	Supply, Erection, Testing and Commissioning of loop in out MS box made up of MS sheet 300x250x100, 2mm thick CRS pressed steel sheet with opening and locking arrangement and the box shell be welded and also the fixed on the street light pole with suitable MS clamps made of MS flat of size not less than 50x6 mm.	Nos	15			0.0065%
120	Supply, Erection, Testing and Commissioning of mounting arrangement for span wire	Each	5			0.0184%
121	Design, Supply, Fabrication, Painting and Erection of Height Gauge at Level Crossings (for clear span up to 7.3 m and/or above 7.3 m upto 12.2 m)	MT	102.4			4.6669%
122	Supply, Erection, Testing and Commissioning of Danger Plate on a Height Gauge Structure	Each	64	0.0431%		
	Total				100.0000%	
	Total Amount (in figures)=					
	Total Amount(in words)					
Note:						
1	Bidders should quote only the Total Amount both in figures & words in the specified place. They should not fill/quote/write anything in col. (E) & (F) . These rates & amount will be derived from the Total amount quoted and weightage factor assigned against respective items indicated in col. G.					
2	Evaluation Shall be based on total amount quoted by bidder.					
3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 13.0 of the SCC will be applicable.					
4	Details of BOQ items shall be read in conjunction with the corresponding specifications, drawings and other tender terms.					