

FARIDABAD CIRCLE

ABSTRACT (SCOPE OF WORK & ESTIMATED COST FOR FARIDABAD CIRCLE)				
Sr.No.	Descriptions	Unit	Quantity	Amount (in Rs.)
1	11 kV Line : New Feeder/ Feeder Bifurcation	Kms	345.00	180132477.79
2	UG Cable	Kms	45.45	116303078.40
3	Installation of Distribution Transformer			
I	Proposed 100 KVA T/F	Nos.	250	43241654.69
II	Proposed 200 KVA T/F	Nos.	575	146644750.45
4	LT Line : New Feeder/ Feeder Bifurcation	Kms	556.694	216262341.21
5	Metering	Nos.	40000	69580000.00
Grand Total				772164302.54

Prepared By

Checked by

Verified by

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AE/P&D

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Urban Electrification Works in Faridabad Circle in Harvana under IPDS.

H(1). Estimate for 11 KV HT Line (345 Kms.) with ACSR Conductor 100mm2 with span 40 meters and double earth wire with guards

Sr. No.	Description	Unit	Qty	Ref.	P&D approved rate for the period 11.4.2016 to 30.9.2016 or latest PD rate issued by P&D (In Rs.)	Cost of per unit for Supply of material including 15% overhead charges on P&D rate (In Rs.)	Rate of Erection Charges (in %)	Unit Erection Charges (In Rs)	Estimated cost for Erection (In Rs)	Estimated cost for Supply of material including 15% overhead charges (In Rs)	Total Estimated cost for supply and erection (In Rs.)
1	2	3	4	5	6	7	8	9	10=4X9	11=4X7	12=10+11
1	Support for 11 KV overhead line as per technical specification, approved drawings and scope of work										
1.01	PCC Pole 11 Mtr. Long. 28 No. X 345 Km = 9660 No.	No	9660	1.2	4775.00	5491.25	15%	716.25	6918975.00	53045475.00	59964450.00
2	Pre-fabricated Hot dip Galvanised steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracing strain plate, guarding channels, back clamp, transformer mounting structure etc made of Galvanised Channels (100x50x6mm), Galvanised angle (65x65x6mm), Galvanised flats (65x8mm) of given sizes for over head structures as per technical specification, approved drawings and scope of work.										
2.01	11 KV Line Top Bracket/Hamper (1 No.) - 3.625 Kg. X 22 Nos. X 345 Kms. = 27513.75 Kg.										
2.02	11 KV Line V Cross Arm (1 No.) - 15.94 Kg. X 22 Nos. X 345 Kms. = 120984.60 Kg.										
2.03	Galvanised Channel (X-arm) 100x50x6mm-2200 mm for H-Pole (1 No.) - 17.38 Kg. X 6 Nos. X 345 Kms. = 35976.60 Kg.	MT	374.111	2.12	50650.00	58247.50	10%	5065.00	1894872.22	21791030.47	23685902.69
2.04	Galvanised Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 3 Nos. X 345 Kms. = 11178 Kg.										
2.05	Galvanised Channel 100x50x6mm-1600 mm for earthing (1 No.) - 12.64 Kg. X 22 Nos. X 345 Kms. = 95937.60 Kg.										
2.06	Galvanised Angle 50x50x6mm-2860 mm for Bracing H-Pole (1 No.) - 12.87 Kg. X 6 Nos. X 345 Kms. = 26640.90 Kg.										
2.07	Galvanised Angle 50x50x6mm-1400 mm for belting (1 No.) - 6.3 Kg. X 6 Nos. X 345 Kms. = 13041 Kg.										
2.08	Half Clamp (1 No.) - 1.47 Kg. X 56 Nos. X 345 Kms. = 28400.40 Kg.										
2.09	Full Clamp (1 No.) - 2.325 Kg. X 18 Nos. X 345 Kms. = 14438.25 Kg.										
3	GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.										
3.01	GI Nuts, Bolts & Washer off sizes - 48 Kg. X 345 Kms. = 16560.000 Kg.	Kg.	16560.000	13.4	68.00	78.20	10%	6.80	112608.00	1294992.00	1407600.00
3.02	Hot dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 56 Nos. X 345 Kms. = 9331.560 Kg.	Kg.	9331.560	13.2 & RGGVY	62.76	72.17	10%	6.28	58564.87	673496.01	732060.88
4	Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6), nut bolts, 2 Nos turn-buckles, 1.5 m long, 16 mm diameter solid GS stay rod & 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work. 18. No. X 345 Km = 6210 No.	No.	6210	6.1 & 58.3	1100.00	1265.00	10%	110.00	683100.00	7855650.00	8538750.00
5	Insulator and hardware as per technical specification, approved drawings and scope of work.										
5.01	11 KV polymeric Disc insulator 45 KN along with suitable hardware fittings 18 No. X 345 Km = 6210 No.	No.	6210	4.5	135.00	155.25	10%	13.50	83835.00	964102.50	1047937.50
5.02	11 KV Polymeric Pin Insulators 75 No. X 345 Km = 25875 No.	No.	25875	4.7	148.00	170.20	10%	14.80	382950.00	4403925.00	4786875.00
6	Earthing arrangement as per technical specifications, approved drawings and scope of work.										
6.01	40 mm dia, 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, bentonite powder and other accessories complete 1 No. X 345 Km = 345 No.	Set.	345	58.5	1540.00	1771.00	10%	154.00	53130.00	610995.00	664125.00
6.02	Spike Earthing 20mm solid Rod. 9 No. X 345 Km = 3105 No.	No.	3105	JVVL rates	616.68	709.18	10%	61.67	191479.14	2202010.11	2393489.25
6.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding 260 Kg. X 345 Km. = 89700.000 Kg.	Kg.	89700.000	6.2	52.00	59.80	10%	5.20	466440.00	5364060.00	5830500.00
7	PG Clamps for 30/50/80/100 mm2 18 No. X 345 Km = 6210 No.	No.	6210	3.1	40.00	46.00	10%	4.00	24840.00	285660.00	310500.00
8	Barbed Wire 28 Kg. X 345 Km = 9660.000 Kg.	Kg.	9660.000	6.3	50.00	57.50	10%	5.00	48300.00	555450.00	603750.00
9	Danger Plate (Enamelled with Clamp) 28 No. X 345 Km = 9660 No.	No.	9660	58.7	66.00	75.90	10%	6.60	63756.00	733194.00	796950.00
10	Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole) 3 Set. X 345 Km = 1035 Set	Set.	1035	58.6	55.00	63.25	10%	5.50	5692.50	65463.75	71156.25
11	ACSR / AACR Conductor 100mm2 3.06 Km X 345 Km = 1055.7 Km.	Km.	1055.700	5.3	51519.00	59246.85	10%	5151.90	5438860.83	62546899.55	67985760.38
12	11 LV Line overhead crossing and underground railway crossing ensuring statutory clearances										
12.01	11 KV LINE FOR UNDER GROUND RAILWAY CROSSING BY 2 Nos (INCLUDING ONE SPARE) 3Cx300 Sqmm XLPE Armoured Cable (0.3 km each) USING 150MM DIA GI PIPES (grade A for underground laying and grade B for pole support), OUTDOOR HEAT SHRINKABLE CABLE JOINTING KITS, 11 KV LIGHTENING ARRESTOR STATION CLASS 10KA (6 NOS.), LUGS, 4 Nos GI 3-Meters LONG PIPE EARTHING, 6 SWG GI WIRES, CABLE MARKERS, BI METALLICK CLAMPS, JUMPERING WITH 11 KV ARIAL BUNCHED CABLES 200 sqmm dia(10 mtr) etc AS REQUIRED AS PER TECHNICAL SPECIFICATIONS, DRAWINGS AND SCOPE OF THE WORK.	Set.	1	Calculated	1093892.37	1257976.23	5%	54694.62	54694.62	1257976.23	1312670.84
Total									16482098.17	163650379.61	180132477.79

- Note: - 1. All M. S. Steel items shall be Hot dip Galvanised
2. The word "IPDS" shall be engraved on all major materials viz Poles, Power & Distribution Transformers (all type) Cables, Energy meter etc. supplied under this NIT.

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Urban Electrification Works in Faridabad Circle in Harvana under IPDS

K(i). Estimate for New HT Line (45.45 Km) with XIPE 3C 300 mm sq.

Sr. No.	Description	Unit	Qty	Ref.	P&D approved rate for the period 11.4.2016 to 30.9.2016 or latest PO rate issued by P&D (In Rs.)	Cost of per unit for Supply of material including 15% overhead charges on P&D rate (In Rs.)	Rate of Erection Charges (in %)	Unit Erection Charges (In Rs)	Estimated cost for Erection (In Rs)	Estimated cost for Supply of material including 15% overhead charges (In Rs)	Total Estimated cost for supply and erection (In Rs.)
1	2	3	4	5	6	7	8	9	10=4X9	11=4X7	12=10+11
1	3/C 300 mm sq. 11 kV XLPE cable 1.06 Km X 45.45 Km = 48.177 Km	KM	48.177	32.6	925343.00	1064144.45	5%	46267.15	2229012.49	51267287.17	53496299.65
2	End termination kit for 3/C 300 sq. mm Cable 2 no. X 45.45 Km = 91 No.	No.	91	44.5	977.00	1123.55	10%	97.70	8890.70	102243.05	111133.75
3	3/C 300mm ² Heat shrinkable cable straight through Joint. 3 No. X 45.45 Km = 137 No.	Nos	137	39.3	3196.00	3675.40	10%	319.60	43785.20	503529.80	547315.00
4	HDPE Pipe 160mm 1.06 Km X 45.45 Km = 48.177 Km (HDPE Pipe thickness should be between 7.7 mm to 8.7 mm)	KM	48.177	Market Rate	600000.00	690000.00	100%	600000.00	28906200.00	33242130.00	62148330.00
Total									31187888.39	85115190.02	116303078.40

Note: - 1. All M. S. Steel items shall be Hot dip Galvanised
 2. The word "IPDS" shall be engraved on all major materials viz Poles, Power & Distribution Transformers (all type) Cables, Energy meter etc. supplied under this NIT.

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Urban Electrification Works in Faridabad Circle in Harvana under IPDS

M (I). Estimate for Pole Mounting Sub-stations with 100 KVA (250 Nos.) Transformers (3 Ph)

Sr. No.	Description	Unit	Qty	Ref.	P&D approved rate for the period 11.4.2016 to 30.9.2016 or latest PO rate issued by P&D (In Rs.)	Cost of per unit for supply of material including 15% overhead charges on P&D rate (In Rs.)	Rate of Erection Charges (in %)	Unit Erection Charges (In Rs)	Estimated cost for Erection (In Rs)	Estimated cost for Supply of material including 15% overhead charges (In Rs)	Total Estimated cost for supply and erection (In Rs.)
									10=4X9	11=4X7	12=10+11
1	DTR Substation Supports as per technical specification, approved drawings and scope of work.										
1.01	PCC Pole 11 Mtr. Long. 2 No. X 250 No. = 500 No.	No.	500	1.2	4775.00	5491.25	15%	716.25	358125.00	2745625.00	3103750.00
2	Pre-fabricated Hot dip Galvanised steel items like DC cross arm (100x50x6 mm), back clamps (65x8 mm), pole clamp (65x8 mm), DO mounting channel (100x50x6 mm), transformer mounting channel (100x50x6 mm), transformer clamping set (50x50x6 mm), transformer belting set (50x50x6 mm) as per technical specification, approved drawings and scope of work.										
2.01	Galvanised Channel 100x50x6mm-2200 mm (1 No.) - 17.38 Kg. X 2 Nos. X 250 Nos. = 8690 Kg.										
2.02	Galvanised Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 1 No. X 250 Nos. = 2700 Kg.	MT	41.055	2.12	50650.00	58247.50	10%	5065.00	207943.58	2391351.11	2599294.69
2.03	Galvanised Channel 75x40x6mm-2200 mm (1 No.) - 14.965 Kg. X 2 Nos. X 250 Nos. = 7482.50 Kg.										
2.04	Transformer Platform Set - 58.85 Kg. X 1 No. X 250 Nos. = 14712.50 Kg.										
2.05	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 250 Nos. = 5145 Kg.										
2.06	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 250 Nos. = 2325 Kg.										
3	GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work. 12 Kg. X 250 No. = 3000.000 Kg.	Kg.	3000.000	13.4	68.00	78.20	10%	6.80	20400.00	234600.00	255000.00
4	Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6mm), nut bolts, 2 Nos. turn-buckles, 1.8 m long, 16 mm diameter solid GS stay rod & 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work. 4 No. X 250 No. = 1000 No.	No.	1000	6.1 & 58.3	1100.00	1265.00	10%	110.00	110000.00	1265000.00	1375000.00
5	Polymer Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings										
5.01	11 KV. Disc Insulator (45 KN Tounge & Clevis type) with suitable hardware fittings 3 No. X 250 No. = 750 No.	No.	750	4.5	135.00	155.25	10%	13.50	10125.00	116437.50	126562.50
5.02	11 KV Pin Insulators with hardware fittings 6 No X 250 No. = 1500 No.	No.	1500	4.7	148.00	170.20	10%	14.80	22200.00	255300.00	277500.00
6	Outdoor mounting type Distribution box made of MS sheet of thickness not less than 18 SWG CRCA sheet by deep drawn method, dust and moisture vermin, weather proof with degree of protection with suitable bus bars, earthing bus, earthing terminals, box illumination, front door operated with proper locking arrangement, lugs, mounting channel frame, internal wiring with FRLS cables, danger plate, numbering, back clamps, hardware as per scope of the work, technical specifications and approved drawings suitable for following transformer:										
6.01	3 Ph 100 KVA Transformer having 200 A TPN isolator, 160A HRC fuse (incomer) and 6 Nos. 90 A SP MCCB (outgoing) 1 No. X 250 No. = 250 No.	No.	250	58.11	500.00	575.00	10%	50.00	12500.00	143750.00	156250.00
7	9 KV Distribution Class Lightning Arrester for DT as per technical specification, approved drawings and scope of work. 3 No. X 250 No. = 750 No.	No.	750	11.1	420.00	483.00	10%	42.00	31500.00	362250.00	393750.00
8	11 KV, 3-ph, 200 A, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings 1 No. X 250 No. = 250 No.	No.	250	12.1	6000.00	6900.00	10%	600.00	150000.00	1725000.00	1875000.00
9	3 Nos. pipe earthing using 40mm dia GI pipe 3000 mm long, as per IS 1161, making earth grid using 50x6mm GI Flat and riser as per scope of work of Distribution Transformer Substations, approved drawings and technical specifications, 1 Set. X 250 No. = 250 Set	Set	250	58.5	1540.00	1771.00	10%	154.00	38500.00	442750.00	481250.00
10	ACSR Conductor 80mm2 (or equivalent AAAC conductor) for jumpering including PG Clamps, bi-metallic connectors, hardware etc as per technical specifications, approved drawings and scope of works.										
10.1	PG Clamps for 30/50/80/100 mm2 3 No. X 250 No. = 750 No.	No.	750	3.1	40.00	46.00	10%	4.0	3000.00	34500.00	37500.00
10.2	ACSR Conductor 80mm2 (or equivalent AAAC conductor) for jumpering 22 Meter X 250 No. = 5500 Meter	Km	5.500	5.2	38528.00	44307.20	10%	3852.8	21190.40	243689.6	264880.0
11	Barbed Wire 2 kg. X 250 Nos. = 500 Kg.	Kg.	500.000	6.3	50.00	57.50	10%	5.0	2500.00	28750.00	31250.00
12	Danger Plate (with Clamp) 2 No. X 250 No. = 500 No.	No.	500	58.7	66.00	75.90	10%	6.6	3300.00	37950.00	41250.00
13	Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole) 1 Set X 250 No. = 250 Set	Set.	250	58.6	55.00	63.25	10%	5.5	1375.00	15812.5	17187.5
14	LT PVC 3.5Cx120mm2 32 Meter X 250 No. = 8000 Meter	Km.	8.000	28.15	261750.00	301012.50	5%	13087.5	104700.00	2408100.00	2512800.00
15	100KVA, 11/0.433 KV-250V, three phase, oil emmersed, naturally cooled, Al wound out-door type distribution transformer with CSP (Completely Self protected) feature with thermal based MCCB, and the losses conforming to 4 star rating of B.E.E and confirming latest technical specification and relevant ISS with latest amendments. 1 No. X 250 No. = 250 No.	No.	250	7.3	101516.00	116743.40	2%	2030.3	507580.00	2918585.00	29693430.00
Total									1604938.98	41636715.71	43241654.69

- Note: 1. All M. S. Steel items shall be Hot dip Galvanised
2. The word "IPDS" shall be engraved on all major materials viz Poles, Power & Distribution Transformers (all type) Cables, Energy meter etc. supplied under this NIT.

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Pre-Audited by

Urban Electrification Works in Faridabad Circle in Harvana under IPDS.

M (II). Estimate for Pole Mounting Sub-stations with 200 KVA (575 Nos.) Transformers (3 Ph)

Sr. No.	Description	Unit	Qty	Ref.	P&D approved rate for the period 11.4.2016 to 30.9.2016 or latest PO rate issued by P&D (In Rs.)	Cost of per unit for Supply of material including 15% overhead charges on P&D rate (In Rs.)	Rate of Erection Charges (in %)	Unit Erection Charges (In Rs)	Estimated cost for Erection (In Rs)	Estimated cost for Supply of material including 15% overhead charges (In Rs)	Total Estimated cost for supply and erection (In Rs.)
1	2	3	4	5	6	7	8	9	10=4X9	11=4X7	12=10+11
1	DTR Substation Supports as per technical specification, approved drawings and scope of work.										
1.01	PCC Pole 11 Mtr. Long. 2 No. X 575 No. = 1150 No.	No	1150	1.2	4775.00	5491.25	15%	716.25	823687.50	6314937.50	7138625.00
2	Pre-fabricated Hot dip Galvanised steel items like DC cross arm (100x50x6 mm), back clamps (65x8 mm), pole clamp (65x8 mm), DO mounting channel (100x50x6 mm), transformer mounting channel (100x50x6 mm), transformer clamping set (50x50x6 mm), transformer belting set (50x50x6 mm) as per technical specification, approved drawings and scope of work.										
2.01	Galvanised Channel 100x50x6mm-2200 mm (1 No.) - 17.38 Kg. X 2 Nos. X 575 Nos. = 19987 Kg.	MT	94.427	2.12	50650.00	58247.50	10%	5065.00	478272.76	5500136.68	5978409.44
2.02	Galvanised Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 1 No. X 575 Nos. = 6210 Kg.										
2.03	Galvanised Channel 75x40x6mm-2200 mm (1 No.) - 14.965 Kg. X 2 Nos. X 575 Nos. = 17209.80 Kg.										
2.04	Transformer Platform Set - 58.85 Kg. X 1 No. X 575 Nos. = 33838.80 Kg.										
2.05	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 575 Nos. = 11833.50 Kg.										
2.06	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 575 Nos. = 5347.50 Kg.										
3	GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work. 12 Kg. X 575 No. = 6900 Kg.	Kg.	6900.000	13.4	68.00	78.20	10%	6.80	46920.00	539580.00	586500.00
4	Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6mm), nut bolts, 2 Nos turn-buckles, 1.8 m long, 16 mm diameter solid G5 stay rod & 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work. 4 No. X 575 No. = 2300 No.	No.	2300	6.1 & 58.3	1100.00	1265.00	10%	110.00	253000.00	2909500.00	3162500.00
5	Polymer Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings										
5.01	11 KV. Disc Insulator (45 KN Tongue & Clevis type) with suitable hardware fittings 3 No. X 575 No. = 1725 No.	No.	1725	4.5	135.00	155.25	10%	13.50	23287.50	267806.25	291093.75
5.02	11 KV Pin Insulators with hardware fittings 6 No. X 575 No. = 3450 No.	No.	3450	4.7	148.00	170.20	10%	14.80	51060.00	587190.00	638250.00
6	Outdoor mounting type Distribution box made of MS sheet of thickness not less than 18 SWG CRCA sheet by deep drawn method, dust and moisture vermin, weather proof with degree of protection with suitable bus bars, earthing bus, earthing terminals, box illumination, front door operated with proper locking arrangement, lugs, mounting channel frame, internal wiring with FRLS cables, danger plate, numbering, back clamps, hardware as per scope of the work, technical specifications and approved drawings suitable for following transformer:										
6.01	3 Ph 200 KVA Transformer having 600 A TPN isolator, 315 A HRC fuse (incomer) and 9 Nos. 120 A SP MCCB (outgoing) 1 No. X 575 No. = 575 No.	No	575	58.11	500.00	575.00	10%	50.00	28750.00	330625.00	359375.00
7	9 KV Distribution Class Lightning Arrester for DT as per technical specification, approved drawings and scope of work. 3 No. X 575 No. = 1725 No.	No	1725	11.1	420.00	483.00	10%	42.00	72450.00	833175.00	905625.00
8	11 kv, 3-ph, 200 A, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings. 1 No. X 575 No. = 575 No.	No.	575	12.1	6000.00	6900.00	10%	600.00	345000.00	3967500.00	4312500.00
9	3 Nos pipe earthing using 40mm dia GI pipe 3000 mm long, as per IS 1161, making earth grid using 50x6mm GI Flat and riser as per scope of work of Distribution Transformer Substations, approved drawings and technical specifications. 1 Set. X 575 No. = 575 Set	Set	575	58.5	1540.00	1771.00	10%	154.00	88550.00	1018325.00	1106875.00
10	ACSR Conductor 80mm2 (or equivalent AAAC conductor) for jumpering including PG Clamps, bi-metallic connectors, hardware etc as per technical specifications, approved drawings and scope of works.										
10.1	PG Clamps for 30/50/80/100 mm2. 3 No. X 575 No. = 1725 No.	No	1725	3.1	40.00	46.00	10%	4.00	6900.00	79350.00	86250.00
10.2	ACSR Conductor 80mm2 (or equivalent AAAC conductor) for jumpering 22 Meter X 575 No. = 12650 Meter	Km	12.650	5.2	38528.00	44307.20	10%	3852.80	48737.92	560486.08	609224.00
11	Barbed Wire 2 kg. X 575 Nos. = 1150.000 Kg.	Kg.	1150.000	6.3	50.00	57.50	10%	5.00	5750.00	66125.00	71875.00
12	Danger Plate (with Clamp) 2 No. X 575 No. = 1150 No.	No.	1150	58.7	66.00	75.90	10%	6.60	7590.00	87285.00	94875.00
13	Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole) 1 Set. X 575 No. = 575 Set.	Set.	575	58.6	55.00	63.25	10%	5.50	3162.50	36368.75	39531.25
14	LT PVC 3.5Cx185mm2 32 Meter X 575 No. = 18400 Meter	Km.	18.400	28.16	357797.00	411466.55	5%	17889.85	329173.24	7570984.52	7900157.76
15	200KVA, 11/0.433 KV-250V, three phase, oil emmersed, naturally cooled, AL wound out-door type distribution transformer with CSP (Completely Self protected) feature with thermal based MCCB, and the lasses conforming to 4 star rating of B.E.E and confirming latest technical specification and relevant ISS with latest amendments. 1 No. X 575 No. = 575 No.	No.	575	7.4	168507.00	193783.05	2%	3370.14	1937830.50	111425253.75	113363084.25
Total									4550121.92	142094628.53	146644750.45

- Note: 1. All M. S. Steel items shall be Hot dip Galvanised
2. The word "IPDS" shall be engraved on all major materials viz Poles, Power & Distribution Transformers (all type) Cables, Energy meter etc. supplied under this NT.

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AE/P&D _____ Xen/P&D _____ SE/P&D _____

Urban Electrification Works in Faridabad Circle in Harvana under IPDS

O(1). Estimate for New LT Overhead Line (556.694 Kms.) with ACSR Conductor 100mm2

Sr. No.	Description	Unit	Qty	Ref.	P&D approved rate for the period 1.4.2016 to 30.9.2016 or latest PO rate issued by P&D (In Rs.)	Cost of per unit for Supply of material including 15% overhead charges on P&D rate (In Rs.)	Rate of Erection Charges (in %)	Unit Erection Charges (In Rs)	Estimated cost for Erection (In Rs)	Estimated cost for Supply of material including 15% overhead charges (In Rs)	Total Estimated cost for supply and erection (In Rs.)
1	2	3	4	5	6	7	8	9	10=4X9	11=4X7	12=10+11
1	New LT Overhead with 100 mm2 ACSR conductor using additional supports matching with length and type of existing support as per technical specifications, scope of works and approved drawings										
1.01	PCC Pole 09 Mtr. Long. 29 No. X 556.694 Km. = 16144 No.	No.	16144	1.1	2020.00	2323.00	15%	303.00	4891632.00	37502512.00	42394144.00
2	New LT Line using New Galvanised Stay Set with anchor plate (200x200x6mm), 50x8mm stay clamp, Stay guy insulator, nut bolts, 2 Nos turn buckles, 1.8 m long, 16 mm diameter solid GS Stay rod & 7/3.15 mm Dia GI stranded wire etc as required as per technical specification, approved drawings and scope of work. 10 No. X 556.694 Km = 5567 No.	No.	5567	6.1 & 58.3	1100.00	1265.00	10%	110.00	612370.00	7042255.00	7654625.00
3	New LT Line using New Earthing as per approved drawings, technical specifications and scope of work										
3.01	40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, bentonite powder and other accessories complete 1 No. X 556.694 Km. = 557 No.	Set	557	58.5	1540.00	1771.00	10%	154.00	85778.00	986447.00	1072225.00
3.02	GI Earthing spike made of 20mm solid Rod 6 No. X 556.694 Km = 3340 No.	No.	3340	JVVJ rate	616.68	709.18	10%	61.67	205971.12	2368667.88	2574639.00
3.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding 260 Kg. X 556.694 Km. = 144740.440 Kg.	Kg.	144740.440	6.2	52.00	59.80	10%	5.20	752650.29	8655478.31	9408128.60
4	GI nuts, bolts & washers 25Kg. X 556.694 Km. = 13917.350 Kg.	Kg.	13917.350	13.4	68.00	78.20	10%	6.80	94637.98	1088336.77	1182974.75
5	D-Straps 100 No. X 556.694 Km. = 55669 No.	No.	55669	58.9	66.00	75.90	10%	6.60	367415.40	4225277.10	4592692.50
6	LT Insulator 150 No. X 556.694 Km. = 83504 No.	No.	83504	4.13	10.00	11.50	10%	1.00	83504.00	960296.00	1043800.00
7	Guy insulator 10 No. X 556.694 Km. = 5567 No.	No.	5567	4.14	10.00	11.50	10%	1.00	5567.00	64020.50	69587.50
8	ACSR Conductor 100 mm2 4.08 Km. X 556.694 Km. = 2271.310 Km	Km.	2271.310	5.3	51519.00	59246.85	10%	5151.90	11701561.99	134567962.87	146269524.86
Total									18801087.78	197461253.44	216262341.21

Note:- 1. All M. S. Steel items shall be Hot dip Galvanised
2. The word "IPDS" shall be engraved on all major materials viz Poles, Power & Distribution Transformers (all type) Cables, Energy meter etc. supplied under this NIT.

Prepared By

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Verified by

Pre-Audited by

AE/P&D

Xen/P&D

SE/P&D

Urban Electrification Works in Faridabad Circle in Haryana under IPDS

S. Estimate for Release of Connection to Un-metered consumer, Replacement of defective / Electro-Mechanical meters of 40000 nos. (1-Phase)

Sr. No.	Description	Unit	Qty	Ref.	P&D approved rate for the period 11.4.2016 to 30.9.2016 or latest PO rate issued by P&D (In Rs.)	Cost of per unit for Supply of material including 15% overhead charges on P&D rate (In Rs.)	Rate of Erection Charges (in %)	Unit Erection Charges (In Rs)	Estimated cost for Erection (In Rs)	Estimated cost for Supply of material including 15% overhead charges (In Rs)	Total Estimated cost for supply and erection (In Rs.)
1	2	3	4	5	6	7	8	9	10=4X9	11=4X7	12=10+11
1	Single phase meters for releasing connection to existing un-metered Consumers, replacement of Defective/electro-mechanical meters. 1 No. X 40000 No. = 40000 No.	Nos.	40000	20.1	890.00	1023.50	10%	89.00	3560000.00	40940000.00	44500000.00
2	LT PVC Cable 2C 10 mm2 15 Meter X 40000 No. = 600000 Meter	Km	600.000	28.10	16500.00	18975.00	5%	825.00	495000.00	11385000.00	11880000.00
3	Polycarbonate Weather Proof Outdoor Type Meter cover Boxes for single phase meters with Zinc plated Clamps as Nigam's Tech. Spec. 1 No. X 40000 No. = 40000 No.	Nos.	40000	22.4	264.00	303.60	10%	26.40	1056000.00	12144000.00	13200000.00
Total									5111000.00	64469000.00	69580000.00

- Note:
1. All M. S. Steel items shall be Hot dip Galvanised
 2. The word "IPDS" shall be engraved on all major materials viz Poles, Power & Distribution Transformers (all type) Cables, Energy meter etc. supplied under this NIT.
 3. All dismantled items/materials shall be returned to the nearest DHBVN store through concerned JE/OP without any value.

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Xen/P&D

SE/P&D