ABSTRACT (SCOPE OF WORK & ESTIMATED COST FOR MAHENDRAGARH DISTRICT)

Sl. No.	Descriptions	Quantity	Amount (in Rs.)
1	Estimate for Pole Mounting Sub-stations (17 Nos.) with 100 KVA Three Phase Transformers (Feeder Separation - 06 Nos., System Strengthening - 11 Nos.)	17 Nos.	2,940,385.67
2	Estimate for Pole Mounting Sub-stations (83 Nos.) with 63 KVA Three Phase Transformers (Feeder Separation - 07 Nos., System Strengthening - 76 Nos.)	83 Nos.	9,380,310.92
3	Estimate for Pole Mounting Sub-stations (28 Nos.) with 25 KVA Three Phase Transformers (Sansad Adarsh Gram Yozna - 10 Nos., System Strengthening - 18 Nos.)	28 Nos.	2,531,155.72
4	Estimate for 11 KV HT Line (02 Kms.) with ACSR Conductor 100mm2 with span 40 meters and double earth wire with guards (Feeder Separation - 02 Kms.)	02 Kms.	1,036,651.78
5	Estimate for Augmentation of 10 Kms. 11KV HT Line with ACSR Conductor 100mm2 (System Strengthening - 10 Kms.)	10 Kms.	3,840,063.63
6	Estimate for 11 KV Spur Line (12 Kms.) with ACSR Conductor 50mm2 with span 40 meters and double earth wire with guards (SAGY - 12 Kms.)	12 Kms.	5,180,734.81
7	Estimate for LT Line (42 Kms.) with AB cable (3CX95+70 mm2) with span 40 Meters (SAGY - 12 Kms., System Strengtheing - 30 Kms.)	42 Kms.	16,262,916.44
8	Estimate for Conversion of 28.2 Kms. existing LT Overhead Line to ABC cable (System Strengtheing - 28.2 Kms.)	28.2 Kms.	10,920,593.72
9	Estimate for release of 600 Nos. BPL connections (Connecting / Unconnecting HHs - 600 Nos.)	600 Nos.	1,728,667.20
10	Estimate for Replacement of 1873 nos. defective meters (1-Ph Domestic and Commercial meters) (Metering - 1873 Nos.)	1873 Nos.	2,083,712.50
11	Estimate for Replacement of 523 nos. defective meters (3-Ph Agriculture, 3-Phase Domestic & Commercial, 3-Phase W/Works meters) (Metering - 523 Nos)	523 Nos.	1,268,275.00
12	Estimate for Installation of 06 Nos. 11 KV Feeder Meters without CT/PT (Metering - 06 Nos.)	6 Nos.	57,102.00
	Total Cost of Mahendragarh District		**57,230,569.40**

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

B(1) & F(16) Estimate for Pole Mounting Sub-stations (17 Nos.) with 100 KVA Three Phase Transformers (Feeder Separation - 06 Nos., System Strengthening - 11 Nos.)

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.	No	34	1.2	4775.00	5491.25	15.00	716.25	24352.50	186702.50	211055.00
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.**	MT	2.791	2.12	50650.00	58247.50	10.00	5065.00	14136.42	162568.77	176705.19
2.01	M.S. Channel 100x50x6mm-2200 mm (1 No.) - 17.38 Kg. X 2 Nos. X 17 Nos. = 590.92 Kg.										
2.02	M.S. Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 1 No. X 17 Nos. = 183.6 Kg.										
2.03	M.S. Channel 75x40x6mm-2200 mm (1 No.) -14.965 Kg. X 2 Nos. X 17 Nos. = 508.81 Kg.										
2.04	Transformer Platform Set - 58.85 Kg. X 1 No. X 17 Nos. = 1000.45 Kg.										
2.05	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 17 Nos. = 349.86 Kg.										
2.06	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 17 Nos. = 158.1 Kg.										
3	**GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.**	Kg.	204.000	13.4	68.00	78.20	10.00	6.80	1387.20	15952.80	17340.00
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.**	No.	68	6.1 & 58.3	1100.00	1265.00	10.00	110.00	7480.00	86020.00	93500.00
5	**Polymeric Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.**										
5.01	11 KV, Disc Insulator (45 KN Tounge & Clevis type) with suitable hardware fittings	No.	51	4.5	135.00	155.25	10.00	13.50	688.50	7917.75	8606.25
5.02	11 KV, Pin Insulators with hardware fittings	No.	102	4.7	148.00	170.20	10.00	14.80	1509.60	17360.40	18870.00
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)	No	17	58.11	500.00	575.00	10.00	50.00	850.00	9775.00	10625.00
7	**11 KV Distribution Class Lightening Arrester for DT as per technical specification, approved drawings and scope of work.**	No	51	11.1	420.00	483.00	10.00	42.00	2142.00	24633.00	26775.00
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**	No.	17	12.1	6000.00	6900.00	10.00	600.00	10200.00	117300.00	127500.00
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,**	Set	17	58.5	1540.00	1771.00	10.00	154.00	2618.00	30107.00	32725.00
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.**										
10.01	PG Clamps for 30/50/80/100 mm2	No.	51	3.1	40.00	46.00	10.00	4.00	204.00	2346.00	2550.00
10.02	ACSR Conductor 80mm2 (or equivalent AAAC conductor) for jumpering	Km.	0.374	5.2	38528.00	44307.20	10.00	3852.80	1440.95	16570.89	18011.84
11	**Barbed Wire**	Kg.	34	6.3	50.00	57.50	10.00	5.00	170.00	1955.00	2125.00
12	**Danger Plate (with Clamp)**	No.	34	58.7	66.00	75.90	10.00	6.60	224.40	2580.60	2805.00
13	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	17	58.6	55.00	63.25	10.00	5.50	93.50	1075.25	1168.75
14	**LT PVC 3.5Cx120mm2**	Km.	0.544	28.15	261750.00	301012.50	5.00	13087.50	7119.60	163750.80	170870.40
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 lasses confirming to 4 star rating of B.E.E and confirming latest technical specification and relevant ISS with latest amendments.**	No.	17	7.3	101516.00	116743.40	2.00	2030.32	34515.44	1984637.80	2019153.24
	Total								**109132.10**	**2831253.57**	**2940385.67**

Note: **1. All M. S. Steel items shall be Hot dip Galvanised**

2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

B(2) & F(18) Estimate for Pole Mounting Sub-stations (83 Nos.) with 63 KVA Three Phase Transformers (Feeder Separation - 07 Nos., System Strengthening - 76 Nos.)

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 9 Mtr. Long.	No	166	1.1	2020.00	2323.00	15.00	303.00	50298.00	385618.00	435916.00
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	M.S. Channel 75x40x6mm-2200 mm (1 No.) -14.965 Kg. X 3 Nos. X 83 Nos. = 3726.285 Kg.	MT	11.09	2.12	50650.00	58247.50	10.00	5065.00	56170.85	645964.78	702135.63
2.02	Transformer Platform Set - 58.85 Kg. X 1 No. X 83 Nos. = 4884.55 Kg.										
2.03	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 83 Nos. = 1708.14 Kg.										
2.04	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 83 Nos. = 771.9 Kg.										
3	**GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.**	Kg.	996.000	13.4	68.00	78.20	10.00	6.80	6772.80	77887.20	84660.00
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.**	No.	332	6.1 & 58.3	1100.00	1265.00	10.00	110.00	36520.00	419980.00	456500.00
5	**Polymeric Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.**										
5.01	11 KV, Disc Insulator (45 KN Tounge & Clevis type) with suitable hardware fittings	No.	249	4.5	135.00	155.25	10.00	13.50	3361.50	38657.25	42018.75
5.02	11 KV, Pin Insulators with hardware fittings	No.	498	4.7	148.00	170.20	10.00	14.80	7370.40	84759.60	92130.00
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 63 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 63 A SP MCCB (outgoing) with metering	No	83	58.11	500.00	575.00	10.00	50.00	4150.00	47725.00	51875.00
7	**11 KV Distribution Class Lightening Arrester for DT as per technical specification, approved drawings and scope of work.**	No	249	11.1	420.00	483.00	10.00	42.00	10458.00	120267.00	130725.00
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**	No.	83	12.1	6000.00	6900.00	10.00	600.00	49800.00	572700.00	622500.00
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,**	Set	83	58.5	1540.00	1771.00	10.00	154.00	12782.00	146993.00	159775.00
10	**Dead End Clamp Assembly with Eye Hook**	No.	166	3.7	244.00	280.60	10.00	24.40	4050.40	46579.60	50630.00
11	**Barbed Wire**	Kg.	166	6.3	50.00	57.50	10.00	5.00	830.00	9545.00	10375.00
12	**Danger Plate (with Clamp)**	No.	166	58.7	66.00	75.90	10.00	6.60	1095.60	12599.40	13695.00
13	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	83	58.6	55.00	63.25	10.00	5.50	456.50	5249.75	5706.25
14	**LT XLPE Armoured Cable 3.5Cx50mm2**	Km.	0.664	29.4	158495.00	182269.25	5.00	7924.75	5262.03	121026.78	126288.82
15	**Cable Termination Kit suitable for 95 mm2 cable**	No.	249	42.2	340.00	391.00	10.00	34.00	8466.00	97359.00	105825.00
16	**ACSR Conductor 50mm2 (or equivalent AAAC conductor) for jumpering**	Km.	1.826	5.1	26540.00	30521.00	10.00	2654.00	4846.20	55731.35	60577.55
17	**Insulated Rabbit conductor (2.5 m per phase)**	Km.	0.6225	JVVNL rates at S. No. 57	50485.00	58057.75	10.00	5048.50	3142.69	36140.95	39283.64
18	**63 KVA, 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 confirming to 4 star rating of B.E.E and confirming latest technical specification and relevant ISS with latest amendments.**	No.	83	7.2	63739.00	73299.85	2.00	1274.78	105806.74	6083887.55	6189694.29
	Total								**371639.72**	**9008671.20**	**9380310.92**

Note: **1. All M. S. Steel items shall be Hot dip Galvanised**

2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

C (4) & F(17) Estimate for Pole Mounting Sub-stations (28 Nos.) with 25 KVA Three Phase Transformers (Sansad Adarsh Gram Yozna - 10 Nos., System Strengthening - 18 Nos.)

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 9 Mtr. Long.	No	56	1.1	2020.00	2323.00	15.00	303.00	16968.00	130088.00	147056.00
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.**	MT	3.741	2.12	50650.00	58247.50	10.00	5065.00	18948.17	217903.90	236852.06
2.01	M.S. Channel 75x40x6mm-2200 mm (1 No.) -14.965 Kg. X 3 Nos. X 28 Nos. = 1257.06 Kg.										
2.02	Transformer Platform Set - 58.85 Kg. X 1 No. X 28 Nos. = 1647.8 Kg.										
2.03	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 28 Nos. = 576.24 Kg.										
2.04	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 28 Nos. = 260.4 Kg.										
3	**GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.**	Kg.	336.000	13.4	68.00	78.20	10.00	6.80	2284.80	26275.20	28560.00
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.**	No.	112	6.1 & 58.3	1100.00	1265.00	10.00	110.00	12320.00	141680.00	154000.00
5	**Polymeric Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.**										
5.01	11 KV, Disc Insulator (45 KN Tounge & Clevis type) with suitable hardware fittings	No.	112	4.5	135.00	155.25	10.00	13.50	1512.00	17388.00	18900.00
5.02	11 KV, Pin Insulators with hardware fittings	No.	168	4.7	148.00	170.20	10.00	14.80	2486.40	28593.60	31080.00
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 25 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 25 A SP MCCB (outgoing) with metering	No	28	58.11	500.00	575.00	10.00	50.00	1400.00	16100.00	17500.00
7	**11 KV Distribution Class Lightening Arrester for DT as per technical specification, approved drawings and scope of work.**	No	84	11.1	420.00	483.00	10.00	42.00	3528.00	40572.00	44100.00
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**	No.	28	12.1	6000.00	6900.00	10.00	600.00	16800.00	193200.00	210000.00
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,**	Set	28	58.5	1540.00	1771.00	10.00	154.00	4312.00	49588.00	53900.00
10	**Dead End Clamp Assembly with Eye Hook**	No.	56	3.7	244.00	280.60	10.00	24.40	1366.40	15713.60	17080.00
11	**Barbed Wire**	Kg.	56	6.3	50.00	57.50	10.00	5.00	280.00	3220.00	3500.00
12	**Danger Plate (with Clamp)**	No.	56	58.7	66.00	75.90	10.00	6.60	369.60	4250.40	4620.00
13	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	28	58.6	55.00	63.25	10.00	5.50	154.00	1771.00	1925.00
14	**LT XLPE Armoured Cable 3.5Cx25mm2**	Km.	0.224	29.3	102076.00	117387.40	5.00	5103.80	1143.25	26294.78	27438.03
15	**Cable Termination Kit suitable for 95 mm2 cable**	No.	84	42.2	340.00	391.00	10.00	34.00	2856.00	32844.00	35700.00
16	**ACSR Conductor 50mm2 (or equivalent AAAC conductor) for jumpering**	Km.	0.616	5.1	26540.00	30521.00	10.00	2654.00	1634.86	18800.94	20435.80
17	**Insulated Rabbit conductor (2.5 m per phase)**	Km.	0.210	JVVNL rates at S.	50485.00	58057.75	10.00	5048.50	1060.19	12192.13	13252.31
18	**25 KVA, 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 confirming to 4 star rating of B.E.E and confirming latest technical specification and relevant ISS with latest amendments.**	No.	28	7.1	44727.00	51436.05	2.00	894.54	25047.12	1440209.40	1465256.52
	Total								**114470.79**	**2416684.94**	**2531155.72**

Note: **1. All M. S. Steel items shall be Hot dip Galvanised**

2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

B (3) Estimate for 11 KV HT Line (02 Kms.) with ACSR Conductor 100mm2 with span 40 meters and double earth wire with guards (Feeder Separation - 02 Kms.)

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	**Support for 11 KV overhead line as per technical specification, approved drawings and scope of work**										
1.01	PCC Pole 11 Mtr. Long.	No	56	1.2	4775.00	5491.25	15.00	716.25	40110.00	307510.00	347620.00
2	**Pre-fabricated Hot dip Galvanised steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, transformer mounting structure etc made of MS Channels (100x50x6mm), MS angle (65x65x6mm), MS flats (65x8mm) of given sizes for over head structures as per technical specification, approved drawings and scope of work.**	MT	2.169	2.12	50650.00	58247.50	10.00	5065.00	10985.99	126338.83	137324.81
2.01	11 KV Line Pole Top Bracket (1 No.) - 3.625 Kg. X 22 Nos. X 2 Kms. = 159.5 Kg.										
2.02	11 KV Line V Cross Arm (1 No.) - 15.94 Kg. X 22 Nos. X 2 Kms. = 701.36 Kg.										
2.03	M.S. Channel (X-arm) 100x50x6mm-2200 mm for H-Pole (1 No.) - 17.38 Kg. X 6 Nos. X 2 Kms. = 208.56 Kg.										
2.04	M.S. Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 3 Nos. X 2 Kms. = 64.8 Kg.										
2.05	M.S. Channel 100x50x6mm-1600 mm for earthing (1 No.) - 12.64 Kg. X 22 Nos. X 2 Kms. = 556.16 Kg.										
2.06	M.S. Angle 50x50x6mm-2860 mm for Bracing H-Pole (1 No.) - 12.87 Kg. X 6 Nos. X 2 Kms. = 154.44 Kg.										
2.07	M.S. Angle 50x50x6mm-1400 mm for belting (1 No.) - 6.3 Kg. X 6 Nos. X 2 Kms. = 75.6 Kg.										
2.08	Half Clamp (1 No.) - 1.47 Kg. X 56 Nos. X 2 Kms. = 164.64 Kg.										
2.09	Full Clamp (1 No.) - 2.325 Kg. X 18 Nos. X 2 Kms. = 83.7 Kg.										
3	**MS 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 2 Kms. = 96 Kg.	Kg.	96	13.4	68.00	78.20	10.00	6.80	652.80	7507.20	8160.00
3.02	Hot dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 56 Nos. X 2 Kms. = 54.096 Kg.	Kg.	54.096	13.2 & RGGVY	62.76	72.17	10.00	6.28	339.51	3904.31	4243.82
4	**Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6), 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.**	No.	36	6.1 & 58.3	1100.00	1265.00	10.00	110.00	3960.00	45540.00	49500.00
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	No.	36	4.5	135.00	155.25	10.00	13.50	486.00	5589.00	6075.00
5.02	11 KV Polymeric Pin Insulators with GI PIN	No.	150	4.7	148.00	170.20	10.00	14.80	2220.00	25530.00	27750.00
6	**Earthing arrangement as per technical specificatons, 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	Set.	2	58.5	1540.00	1771.00	10.00	154.00	308.00	3542.00	3850.00
6.02	Spike Earthing 20mm solid Rod	No.	18	JVVNL rates	616.68	709.18	10.00	61.67	1110.02	12765.28	13875.30
6.05	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	520.000	6.2	52.00	59.80	10.00	5.20	2704.00	31096.00	33800.00
7	**PG Clamps for 30/50/80/100 mm2**	No.	36	3.1	40.00	46.00	10.00	4.00	144.00	1656.00	1800.00
8	**Barbed Wire**	Kg.	56	6.3	50.00	57.50	10.00	5.00	280.00	3220.00	3500.00
9	**Danger Plate (Enamelled with Clamp)**	No.	56	58.7	66.00	75.90	10.00	6.60	369.60	4250.40	4620.00
10	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	6	58.6	55.00	63.25	10.00	5.50	33.00	379.50	412.50
11	**ACSR conductor, Dog type (100 sq mm)**	KM	6.120	5.3	51519.00	59246.85	10.00	5151.90	31529.63	362590.72	394120.35
			Total						**95232.54**	**941419.24**	**1036651.78**

Note: **1. All M. S. Steel items shall be Hot dip Galvanised**
2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

F (13) Estimate for Augmentation of 10 Kms. 11KV HT Line with ACSR Conductor 100mm2 (System Strengthening - 10 Kms.)

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	**Augmentation of 3 phase 11 kV line 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 11 Mtr. Long.	No	60	1.2	4775.00	5491.25	15.00	716.25	42975.00	329475.00	372450.00
2	**Augmentation of 3 phase 11 kV line using new Pre-fabricated Hot dip Galvanised steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, transformer mounting structure etc made of MS Channels, MS angle, MS flats of given sizes for over head structures as per technical specification, approved drawings and scope of work.**	MT	10.844	2.12	50650.00	58247.50	10.00	5065.00	54924.86	631635.89	686560.75
2.01	11 KV Line Pole Top Bracket (1 No.) - 3.625 Kg. X 22 Nos. X 10 Kms. = 797.5 Kg.										
2.02	11 KV Line V Cross Arm (1 No.) - 15.94 Kg. X 22 Nos. X 10 Kms. = 3506.8 Kg.										
2.03	M.S. Channel (X-arm) 100x50x6mm-2200 mm for H-Pole (1 No.) - 17.38 Kg. X 6 Nos. X 10 Kms. = 1042.8 Kg.										
2.04	M.S. Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 3 Nos. X 10 Kms. = 324 Kg.										
2.05	M.S. Channel 100x50x6mm-1600 mm for earthing (1 No.) - 12.64 Kg. X 22 Nos. X 10 Kms. = 2780.8 Kg.										
2.06	M.S. Angle 50x50x6mm-2860 mm for Bracing H-Pole (1 No.) - 12.87 Kg. X 6 Nos. X 10 Kms. = 772.2 Kg.										
2.07	M.S. Angle 50x50x6mm-1400 mm for belting (1 No.) - 6.3 Kg. X 6 Nos. X 10 Kms. = 378 Kg.										
2.08	Half Clamp (1 No.) - 1.47 Kg. X 56 Nos. X 10 Kms. = 823.2 Kg.										
2.09	Full Clamp (1 No.) - 2.325 Kg. X 18 Nos. X 10 Kms. = 418.5 Kg.										
3	**Augmentation of 3 phase 11 kV line using new Insulator and hardware as per technical specification, approved drawings and scope of work**										
3.01	11 KV polymeric Disc insulator 45 KN along with suitable hardware fittings	No.	180	4.5	135.00	155.25	10.00	13.50	2430.00	27945.00	30375.00
3.02	11 KV Polymeric Pin Insulators 10 KN with GI PIN	No.	750	4.7	148.00	170.20	10.00	14.80	11100.00	127650.00	138750.00
4	**Augmentation of 3 phase 11 kV line using new Earthing arrangement as per technical specificatons, approved drawings and scope of work.**										
4.01	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	Set.	10	58.5	1540.00	1771.00	10.00	154.00	1540.00	17710.00	19250.00
4.02	GI Earthing spike made of 20mm solid Rod	No.	90	JVVNL rates	616.68	709.18	10.00	61.67	5550.12	63826.38	69376.50
4.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	2600.000	6.2	52.00	59.80	10.00	5.20	13520.00	155480.00	169000.00
5	**Augmentation of 3 phase 11 kV line using new Stay Set (Galvanised) with 50x8 mm stay clamp, guy insulator, anchor plate (200x200x6mm) , nut bolts, 2 Nos turn-buckles, 1.8 m long, 16 mm diameter solid GI stay rod & 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.**	No.	180	6.1 & 58.3	1100.00	1265.00	10.00	110.00	19800.00	227700.00	247500.00
6	**PG Clamps for 30/50/80/100 mm2**	No.	180	3.1	40.00	46.00	10.00	4.00	720.00	8280.00	9000.00
7	**Barbed Wire**	Kg.	280	6.3	50.00	57.50	10.00	5.00	1400.00	16100.00	17500.00
8	**Danger Plate (Enamelled with Clamp)**	No.	280	58.7	66.00	75.90	10.00	6.60	1848.00	21252.00	23100.00
9	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	30	58.6	55.00	63.25	10.00	5.50	165.00	1897.50	2062.50
10	**MS Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.**										
10.01	GI Nuts, Bolts & Washer off sizes - 48 Kg. X 10 Kms. = 480 Kg.	Kg.	480.000	13.4	68.00	78.20	10.00	6.80	3264.00	37536.00	40800.00
10.02	Hot dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 56 Nos. X 10 Kms. = 270.38 Kg.	Kg.	270.380	13.2 & RGGVY	62.76	72.17	10.00	6.28	1696.90	19514.35	21211.26
11	**ACSR conductor, Dog type (100 sq mm)**	KM	30.600	5.3	51519.00	59246.85	10.00	5151.90	157648.14	1812953.61	1970601.75
12	**Insulated ACSR Conductor 100 mm2 (for Jumpering)**	Km.	0.3	5.4	60069.00	69079.35	10.00	6006.90	1802.07	20723.81	22525.88
			Total						**320384.09**	**3519679.54**	**3840063.63**

Note:
1. **All dismantled item/materials shall be returned to the nearest DHBVN Store through concerned JE/OP without any value.**
2. **All M. S. Steel items shall be Hot dip Galvanised**
3. **The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.**

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

C (5) Estimate for 11 KV Spur Line (12 Kms.) with ACSR Conductor 50mm2 with span 40 meters and double earth wire with guards (SAGY - 12 Kms.)

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	**Support for 11 KV overhead line as per technical specification, approved drawings and scope of work**										
1.01	PCC Pole 9 Mtr. Long.	No	336	1.1	2020.00	2323.00	15.00	303.00	101808.00	780528	882336.00
2	**Pre-fabricated Hot dip Galvanised steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, transformer mounting structure etc made of MS Channels (100x50x6mm), MS angle (65x65x6mm), MS flats (65x8mm) of given sizes for over head structures as per technical specification, approved drawings and scope of work.**	MT	13.012	2.12	50650.00	58247.50	10.00	5065.00	65905.78	757916.47	823822.25
2.01	11 KV Line Pole Top Bracket (1 No.) - 3.625 Kg. X 22 Nos. X 12 Kms. = 957 Kg.										
2.02	11 KV Line V Cross Arm (1 No.) - 15.94 Kg. X 22 Nos. X 12 Kms. = 4208.16 Kg.										
2.03	M.S. Channel (X-arm) 100x50x6mm-2200 mm for H-Pole (1 No.) - 17.38 Kg. X 6 Nos. X 12 Kms. = 1251.36 Kg.										
2.04	M.S. Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 3 Nos. X 12 Kms. = 388.8 Kg.										
2.05	M.S. Channel 100x50x6mm-1600 mm for earthing (1 No.) - 12.64 Kg. X 22 Nos. X 12 Kms. = 3336.96 Kg.										
2.06	M.S. Angle 50x50x6mm-2860 mm for Bracing H-Pole (1 No.) - 12.87 Kg. X 6 Nos. X 12 Kms. = 926.64 Kg.										
2.07	M.S. Angle 50x50x6mm-1400 mm for belting (1 No.) - 6.3 Kg. X 6 Nos. X 12 Kms. = 453.6 Kg.										
2.08	Half Clamp (1 No.) - 1.47 Kg. X 56 Nos. X 12 Kms. = 987.84 Kg.										
2.09	Full Clamp (1 No.) - 2.325 Kg. X 18 Nos. X 12 Kms. = 502.2 Kg.										
3	**MS 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 12 Kms. = 576 Kg.	Kg.	576	13.4	68.00	78.20	10.00	6.80	3916.80	45043.20	48960.00
3.02	Hot dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 56 Nos. X 12 Kms. = 324.576 Kg.	Kg.	324.576	13.2 & RGGVY	62.76	72.17	10.00	6.28	2037.03	23425.89	25462.92
4	**Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6), 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.**	No.	216	6.1 & 58.3	1100.00	1265.00	10.00	110.00	23760.00	273240.00	297000.00
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	No.	216	4.5	135.00	155.25	10.00	13.50	2916.00	33534.00	36450.00
5.02	11 KV Polymeric Pin Insulators with GI PIN	No.	900	4.7	148.00	170.20	10.00	14.80	13320.00	153180.00	166500.00
6	**Earthing arrangement as per technical specificatons, 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	Set.	12	58.5	1540.00	1771.00	10.00	154.00	1848.00	21252.00	23100.00
6.02	Spike Earthing 20mm solid Rod	No.	108	JVVL rates	616.68	709.18	10.00	61.67	6660.14	76591.66	83251.80
6.05	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	3120.000	6.2	52.00	59.80	10.00	5.20	16224.00	186576.00	202800.00
7	**PG Clamps for 30/50/80/100 mm2**	No.	180	3.1	40.00	46.00	10.00	4.00	720.00	8280.00	9000.00
8	**Barbed Wire**	Kg.	336	6.3	50.00	57.50	10.00	5.00	1680.00	19320.00	21000.00
9	**Danger Plate (Enamelled with Clamp)**	No.	336	58.7	66.00	75.90	10.00	6.60	2217.60	25502.40	27720.00
10	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	36	58.6	55.00	63.25	10.00	5.50	198.00	2277.00	2475.00
11	**ACSR conductor, Rabbit type (50 sq mm)**	KM	36.720	5.1	26540.00	30521.00	10.00	2654.00	97454.88	1120731.12	1218186.00
12	**11 KV 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	5.00	54694.62	54694.62	1257976.23	1312670.84
	Total								**395360.86**	**4785373.96**	**5180734.81**

Note: **1. All M. S. Steel items shall be Hot dip Galvanised**

2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

C (6)& F(20) Estimate for LT Line (42 Kms.) with AB cable (3CX95+70 mm2) with span 40 Meters (SAGY - 12 Kms., System Strengtheing - 30 Kms.)

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	**Support for LT overhead Line as per technical specification, approved drawings and scope of work.**										
1.01	PCC Pole 09 Mtr. Long.	No	1218	1.1	2020.00	2323.00	15.00	303.00	369054.00	2829414.00	3198468.00
2	**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.**	No.	420	6.1 & 58.3	1100.00	1265.00	10.00	110.00	46200.00	531300.00	577500.00
3	**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	Set.	42	58.5	1540.00	1771.00	10.00	154.00	6468.00	74382.00	80850.00
3.02	GI Earthing spike made of 20mm solid Rod	No.	252	JVVNL rates	616.68	709.18	10.00	61.67	15540.34	178713.86	194254.20
3.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	630.000	6.2	52.00	59.80	10.00	5.20	3276.00	37674.00	40950.00
4	**Suspension Clamp Assembly suitable for AB Cable (with eye hook)**	No.	798	3.6	425.00	488.75	10.00	42.50	33915.00	390022.50	423937.50
5	**Dead End Clamp Assembly suitable for AB Cable (with eye hook)**	No.	420	3.7	244.00	280.60	10.00	24.40	10248.00	117852.00	128100.00
6	**Hot Dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 29 Nos. X 42 Kms. = 588.294 Kg.**	Kg.	588.294	13.2 & RGGVY	62.76	72.17	10.00	6.28	3692.12	42459.42	46151.54
7	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	168	58.6	55.00	63.25	10.00	5.50	924.00	10626.00	11550.00
8	**Jt. Kit O/D LT ABC 3Cx150+1Cx150 HS**	No.	504		1648.06	1895.27	10.00	164.81	83062.22	955215.58	1038277.80
9	**LT AB cable of size 3CX 95+70 sq mm Conductor**	KM	44.100	31.40	198845.00	228671.75	5.00	9942.25	438453.23	10084424.18	10522877.40
	Total								**1010832.91**	**15252083.53**	**16262916.44**

Note: 1. All M. S. Steel items shall be Hot dip Galvanised
2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

F (15) - Estimate for Conversion of 28.2 Kms. existing LT Overhead Line to ABC cable (System Strengtheing - 28.2 Kms.)

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	**Conversion of existing LT lines with bare conductor to AB XLPE cable 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.	No	818	1.1	2020.00	2323.00	15.00	303.00	247854.00	1900214.00	2148068.00
2	**Conversion of existing LT lines 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.**	No.	282	6.1 & 58.3	1100.00	1265.00	10.00	110.00	31020.00	356730.00	387750.00
3	**Conversion of existing LT lines using new Earthing as per approved drawings, technical specifications and scope of work**							0.00	0.00	0.00	0.00
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	Set.	29	58.5	1540.00	1771.00	10.00	154.00	4466.00	51359.00	55825.00
3.02	GI Earthing spike made of 20mm solid Rod	No.	169	JVVNL rates	616.68	709.18	10.00	61.67	10421.89	119851.76	130273.65
3.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	423.00	6.2	52.00	59.80	10.00	5.20	2199.60	25295.40	27495.00
4	**Suspension Clamp Assembly suitable for AB Cable (with eye hook)**	No.	536	3.6	425.00	488.75	10.00	42.50	22780.00	261970.00	284750.00
5	**Dead End Clamp Assembly suitable for AB Cable (with eye hook)**	No.	282	3.7	244.00	280.60	10.00	24.40	6880.80	79129.20	86010.00
6	**Hot Dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 29 Nos. X 28.2 Kms. = 394.997 Kg.**	Kg.	394.997	13.2 & RGGVY	62.76	72.17	10.00	6.28	2478.99	28508.44	30987.43
7	**Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)**	Set.	113	58.6	55.00	63.25	10.00	5.50	621.50	7147.25	7768.75
8	**Jt. Kit O/D LT ABC 3Cx150+1Cx150 HS**	No.	338		1648.06	1895.27	10.00	164.81	55704.43	640600.92	696305.35
9	**LT AB cable of size 3CX 95+70 sq mm Conductor**	KM	29.610	31.40	198845.00	228671.75	5.00	9942.25	294390.02	6770970.52	7065360.54
	Total								**678817.24**	**10241776.49**	**10920593.72**

Note: **1. All dismantled item/materials shall be returned to the nearest DHBVN Store through concerned JE/OP without any value.**
2. All M. S. Steel items shall be Hot dip Galvanised
3. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

D (7) Estimate for release of 600 Nos. BPL connections (Connecting / Unconnecting HHs - 600 Nos.)

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	PVC cable for service connection 2c x 4 sq.mm 1ph	Kms	18.000	28.7	11142.00	12813.30	5.00	557.10	10027.80	230639.40	240667.20
2	Single Phase whole static energy meter class of Accuracy 1.00 of rating 10-60A with communication and upgrading facility as per Nigam's Tec. Spec. relevant ISS with up to date amendments	No.	600	20.1	890.00	1023.50	10.00	89.00	53400.00	614100.00	667500.00
3	Polycarbonate weather prof outdoor type Meter Cover Boxes (MCB) for single phase meter alongwith Zinc plated Clamp as per Nigams Technical Specification.	No.	600	22.4	264.00	303.60	10.00	26.40	15840.00	182160.00	198000.00
4	MCB 6A with Box	No	600	MKt. price	55.00	63.25	10.00	5.50	3300.00	37950.00	41250.00
5	PVC conduit Pipe 20mm dia	Mtr.	1800	MKt. price	25.00	28.75	10.00	2.50	4500.00	51750.00	56250.00
6	Conduit Clip Batten Holder	No.	600	MKt. price	30.00	34.50	10.00	3.00	1800.00	20700.00	22500.00
7	9 W LED Bulb	No.	600	cost on which nigam distributed	75.00	86.25	10.00	7.50	4500.00	51750.00	56250.00
8	LT connector	No.	600	MKt. price	10.00	11.50	10.00	1.00	600.00	6900.00	7500.00
9	Switch Board : Wooden / Fiber Glass Reinforced Polyester sheet moulding compound (SMC) board {200x150x40 (minimum)}	No.	600	MKt. price	100.00	115.00	10.00	10.00	6000.00	69000.00	75000.00
10	ISI mark, Piano type 5A, 240V, Switch	No.	1200	MKt. price	14.00	16.10	10.00	1.40	1680.00	19320.00	21000.00
11	ISI mark, 5A, 240V, three-pin socket	No.	600	MKt. price	17.00	19.55	10.00	1.70	1020.00	11730.00	12750.00
12	Earth terminal	No.	600	MKt. price	10.00	11.50	10.00	1.00	600.00	6900.00	7500.00
13	House wiring single core 1.5 sq mm multi-strands copper conductor cable	Mtr.	6000	MKt. price	8.00	9.20	10.00	0.80	4800.00	55200.00	60000.00
14	LED light point	No.	600	MKt. price	10.00	11.50	10.00	1.00	600.00	6900.00	7500.00
15	GI Wire 3.15mm dia (10SWG)	Mtr.	18000	MKt. price	5.00	5.75	10.00	0.50	9000.00	103500.00	112500.00
16	G.I. Pipe (20 mm dia)	Mtr.	1800	MKt. price	30.00	34.50	10.00	3.00	5400.00	62100.00	67500.00
17	MS flat clamps (40x3mm)	No.	1200	MKt. price	50.00	57.50	10.00	5.00	6000.00	69000.00	75000.00
		Total							**129067.80**	**1599599.40**	**1728667.20**

Note:-

1. The total cost for releasing 1 no BPL connecting including supply of material, erection, testing and commissioning, transportation and other charges shall not be more than Rs. 3000/-. If any bidder quoted higher price than their cost for release of one no. BPL. Same shall be restricted to Rs. 3000/- for award purpose and the quoted price shall be taken for evaluation purpose.

2. All M. S. Steel items shall be Hot dip Galvanised

3. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

E(9) - Estimate for Replacement of 1873 nos. defective meters (1-Ph Domestic and Commercial meters) (Metering - 1873 Nos.)

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 whole current static energy meters class of Accuracy 1.00 of rating 10-60A with Communication and upgrading facility as per Nigams technical specification, relevent ISS with upto date amendments.	Nos.	1873	20.1	890.00	1023.50	10.00	89.00	166697.00	1917015.50	2083712.50
		Total							166697.00	1917015.50	2083712.50

Note: 1. All dismantled item/materials shall be returned to the nearest DHBVN Store through concerned JE/OP without any value.
2. All M. S. Steel items shall be Hot dip Galvanised
3. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

E(10,11,12) - Estimate for Replacement of 523 nos. defective meters (3-Ph Agriculture, 3-Phase Domestic & Commercial, 3-Phase W/Works meters) (Metering - 523 Nos)

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	Three phase 4-wire whole current static energy meters class-I accuracy of rating 10-60A, with communication & upgrading facility as per Nigam's Tech. Spec., relevant ISS with upto date amendments.	Nos.	523	21.1	1940.00	2231.00	10.00	194.00	101462.00	1166813.00	1268275.00
		Total							101462.00	1166813.00	1268275.00

Note: 1. All dismantled item/materials shall be returned to the nearest DHBVN Store through concerned JE/OP without any value.
2. All M. S. Steel items shall be Hot dip Galvanised
3. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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Rural Electrification Works in Mahendragarh District in Haryana under DDUGJY

E(8) - Estimate for Installation of 06 Nos. 11 KV Feeder Meters without CT/PT (Metering - 06 Nos.)

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	11 KV Feeder Meters without CT/PT	Nos.	6	21.4	2700.00	3105.00	10.00	270.00	1620.00	18630.00	20250.00
2	Modem	Nos.	6	NP-90 of CH-1	4913.60	5650.64	10.00	491.36	2948.16	33903.84	36852.00
		Total							4568.16	52533.84	57102.00

Note: **1. All M. S. Steel items shall be Hot dip Galvanised**
2. The word "DDUGJY" shall be engraved on materials viz., Poles, Transformers (All types), Cables, Energy Meter etc supplied under this NIT.

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