

**ABSTRACT (SCOPE OF WORK & ESTIMATED COST FOR SIRSA DISTRICT)**

<b>Sr. No.</b>	<b>Descriptions</b>	<b>Quantity</b>	<b>Amount (in Rs.)</b>
1	Estimate for 11 KV Spur Line 174.11 Kms.) with ACSR Conductor 80mm <sup>2</sup> with span 40 meters and double earth wire with guards (System Strengthening - 174.11 Kms.)	174.11 Kms.	65446804.95
2	Estimate for Augmentation of 220.65 Kms. 11KV HT Line with ACSR Conductor 80mm <sup>2</sup> (Feeder Separation - 220.65 Kms.)	220.65 Kms.	69838093.45
3	Estimate for Pole Mounting Sub-stations (1 Nos. ) with 63 KVA Three Phase Transformers (Sansad Adarsh Gram Yozana - 1 Nos.)	1 Nos.	112976.89
4	Estimate for Pole Mounting Sub-stations (3 Nos. ) with 25 KVA Three Phase Transformers (Sansad Adarsh Gram Yozana - 3 Nos.)	3 Nos.	271206.56
5	Estimate for Augmentation of 47 Nos. DTRs from existing to 100 KVA (Connecting/ UnConnecting - 47 Nos.)	47 Nos.	6329757.43
6	Estimate for Augmentation of 65 Nos. DTRs from existing to 63 KVA (Connecting/ UnConnecting - 65 Nos.)	65 Nos.	5601825.97
7	Estimate for Conversion of 70.6 Kms. existing LT Overhead Line to AB cable (3CX95+1X70 mm <sup>2</sup> ) (Connecting / UnConnecting HHs - 70.6 Kms.)	70.6 Kms.	27336564.02
8	Estimate for Replacement of 3424 nos. defective meters (1-Ph Domestic and Commercial meters) (Metering - 3424 Nos.)	3424 Nos.	3809200.00
9	Estimate for release of 4964 Nos. BPL connections (Sansad Adarsh Gram Yozna - 22 Nos. & Connecting / Unconnecting HHs - 4942 Nos.)	4964 Nos.	14301839.97
<b>Total Cost of Sirsa District</b>			<b>193,048,269.25</b>

Prepared by

Checked by

Verified by

Pre-Audited by

AE / P&amp;D

Xen / P&amp;D

SE / P&amp;D



**Rural Electrification Works in Sirsa District in Harvana under DDUGJY**

**B(1) & B (2) Estimate for Augmentation of 220.65 Kms. 11KV HT Line with ACSR Conductor 80mm2 (Feeder Separation - 220.65 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	<b>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</b>										
1.01	PCC Pole 9 Mtr. Long.	No	1633	1.1	2020.00	2323.00	15.00	303.00	494799.00	3793459.00	4288258.00
2	<b>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.</b>										
2.01	11 KV Line Pole Top Bracket (1 No.) - 3.625 Kg. X 22 Nos. X 5 Kms. = 398.75 Kg.										
2.02	11 KV Line V Cross Arm (1 No.) - 15.94 Kg. X 22 Nos. X 5 Kms. = 1753.4 Kg.										
2.03	M.S. Channel (X-arm) 100x50x6mm-2200 mm for H-Pole (1 No.) - 17.38 Kg. X 6 Nos. X 5 Kms. = 521.4 Kg.	MT	239.268	2.12	50650.00	58247.50	10.00	5065.00	1211892.42	13936762.83	15148655.25
2.04	M.S. Angle Iron 50x50x6mm-2400 mm for earthing (1 No.) - 10.8 Kg. X 3 Nos. X 5 Kms. = 162 Kg.										
2.05	M.S. Channel 100x50x6mm-1600 mm for earthing (1 No.) - 12.64 Kg. X 22 Nos. X 5 Kms. = 1390.4 Kg.										
2.06	M.S. Angle 50x50x6mm-2860 mm for Bracing H-Pole (1 No.) - 12.87 Kg. X 6 Nos. X 5 Kms. = 386.1 Kg.										
2.07	M.S. Angle 50x50x6mm-1400 mm for belting (1 No.) - 6.3 Kg. X 6 Nos. X 5 Kms. = 189 Kg.										
2.08	Half Clamp (1 No.) - 1.47 Kg. X 56 Nos. X 5 Kms. = 411.6 Kg.										
2.09	Full Clamp (1 No.) - 2.325 Kg. X 18 Nos. X 5 Kms. = 209.25 Kg.										
3	<b>Augmentation of 3 phase 11 kV line using new Insulator and hardware as per technical specification, approved drawings and scope of work</b>										
3.01	11 KV polymeric Disc insulator 45 KN along with suitable hardware fittings	No.	3972	4.5	135.00	155.25	10.00	13.50	53622.00	616653.00	670275.00
3.02	11 KV Polymeric Pin Insulators with GI PIN	No.	16549	4.7	148.00	170.20	10.00	14.80	244925.20	2816639.80	3061565.00
4	<b>Augmentation of 3 phase 11 kV line using new Earthing arrangement as per technical specifications, approved drawings and scope of work.</b>										
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.	221	58.5	1540.00	1771.00	10.00	154.00	34034.00	391391.00	425425.00
4.02	GI Earthing spike made of 20mm solid Rod	No.	1986	JVVNL estac	616.68	709.18	10.00	61.67	122472.65	1408435.45	1530908.10
4.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	57369.000	6.2	52.00	59.80	10.00	5.20	298318.80	3430666.20	3728985.00
5	<b>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 &amp; 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.</b>										
5.01	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.	3972	6.1 & 58.3	1100.00	1265.00	10.00	110.00	436920.00	5024580.00	5461500.00
6	<b>PG Clamps for 30/50/80/100 mm2</b>	No.	3972	3.1	40.00	46.00	10.00	4.00	15888.00	182712.00	198600.00
7	<b>Barbed Wire</b>	Kg.	6178.2	6.3	50.00	57.50	10.00	5.00	30891.00	355246.50	386137.50
8	<b>Danger Plate (Enamelled with Clamp)</b>	No.	6178	58.7	66.00	75.90	10.00	6.60	40774.80	468910.20	509685.00
9	<b>Phase Indication Plates for each phase set of 3 (On H-Pole &amp; 4 Pole)</b>	Set.	662	58.6	55.00	63.25	10.00	5.50	3641.00	41871.50	45512.50
10	<b>Insulated ACSR Conductor 100 mm2 (for Jumpering)</b>	Km.	6.6195	5.4	60069.00	69079.35	10.00	6006.90	39762.67	457270.76	497033.43
11	<b>MS Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.</b>										
11.01	GI Nuts, Bolts & Washer off sizes - 48 Kg. X 220.65 Kms. = 10591.2 Kg.	Kg.	10591.200	13.4	68.00	78.20	10.00	6.80	72020.16	828231.84	900252.00
11.02	Hot dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.) - 0.483 Kg. X 56 Nos. X 220.65 Kms. = 5968.141 Kg.	Kg.	5968.141	13.2 & RGGVY	62.76	72.17	10.00	6.28	37455.95	430743.47	468199.43
12	<b>ACSR conductor, Raccon type (80 sq mm)</b>	KM	675.189	5.2	38528.00	44307.20	10.00	3852.80	2601368.18	29915734.06	32517102.24
	<b>Total</b>								<b>5738785.84</b>	<b>64099307.61</b>	<b>69838093.45</b>

- 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.

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D

**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

**C (5). Estimate for Pole Mounting Sub-stations (1 Nos.) with 63 KVA Three Phase Transformers (Sansad Adarsh Gram Yozana - 1 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	2	1.1	2020.00	2323.00	15.00	303.00	606.00	4646.00	5252.00
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 1 No. = 44.895 Kg.	MT	0.133	2.12	50650.00	58247.50	10.00	5065.00	673.65	7746.92	8420.56
2.02	Transformer Platform Set - 58.85 Kg. X 1 No. X 1 No. = 58.85 Kg.										
2.03	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 1 No. = 20.58 Kg.										
2.04	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 1 No. = 9.3 Kg.										
3	GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.	Kg.	12.000	13.4	68.00	78.20	10.00	6.80	81.60	938.40	1020.00
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.	4	6.1 & 58.3	1100.00	1265.00	10.00	110.00	440.00	5060.00	5500.00
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.	3	4.5	135.00	155.25	10.00	13.50	40.50	465.75	506.25
5.02	11 KV, Pin Insulators with hardware fittings	No.	6	4.7	148.00	170.20	10.00	14.80	88.80	1021.20	1110.00
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	1	58.11	500.00	575.00	10.00	50.00	50.00	575.00	625.00
7	11 KV Distribution Class Lightning Arrester for DT as per technical specification, approved drawings and scope of work.	No	3	11.1	420.00	483.00	10.00	42.00	126.00	1449.00	1575.00
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.	1	12.1	6000.00	6900.00	10.00	600.00	600.00	6900.00	7500.00
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	1	58.5	1540.00	1771.00	10.00	154.00	154.00	1771.00	1925.00
10	Dead End Clamp Assembly with Eye Hook	No.	2	3.7	244.00	280.60	10.00	24.40	48.80	561.20	610.00
11	Barbed Wire	Kg.	2	6.3	50.00	57.50	10.00	5.00	10.00	115.00	125.00
12	Danger Plate (with Clamp)	No.	2	58.7	66.00	75.90	10.00	6.60	13.20	151.80	165.00
13	Phase Indication Plates for each phase set of 3	Set.	1	58.6	55.00	63.25	10.00	5.50	5.50	63.25	68.75
14	LT XLPE Armoured Cable 3.5Cx50mm2	Km.	0.008	29.4	158495.00	182269.25	5.00	7924.75	63.40	1458.15	1521.55
15	Cable Termination Kit suitable for 95 mm2 cable	No.	3	42.2	340.00	391.00	10.00	34.00	102.00	1173.00	1275.00
16	ACSR Conductor 50mm2 (or equivalent AAAC conductor) for jumpering	Km.	0.022	5.1	26540.00	30521.00	10.00	2654.00	58.39	671.46	729.85
17	Insulated Rabbit conductor (2.5 m per phase)	Km.	0.0075	JVVNL rates at S.	50485.00	58057.75	10.00	5048.50	37.86	435.43	473.30
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.	1	7.2	63739.00	73299.85	2.00	1274.78	1274.78	73299.85	74574.63
	<b>Total</b>								<b>4474.47</b>	<b>108502.42</b>	<b>112976.89</b>

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.

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D

**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

C (4). Estimate for Pole Mounting Sub-stations (3 Nos. ) with 25 KVA Three Phase Transformers (Sansad Adarsh Gram Yozana - 3 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	<b>DTR Substation Supports as per technical specification, approved drawings and scope of work.</b>										
1.01	PCC Pole 9 Mtr. Long.	No	6	1.1	2020.00	2323.00	15.00	303.00	1818.00	13938.00	15756.00
2	<b>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.</b>										
2.01	M.S. Channel 75x40x6mm-2200 mm (1 No.) -14.965 Kg. X 3 Nos. X 3 Nos. = 134.685 Kg.	MT	0.401	2.12	50650.00	58247.50	10.00	5065.00	2031.07	23357.25	25388.31
2.02	Transformer Platform Set - 58.85 Kg. X 1 No. X 3 Nos. = 176.55 Kg.										
2.03	Half Clamp (1 No.) - 1.47 Kg. X 14 Nos. X 3 Nos. = 61.74 Kg.										
2.04	Full Clamp (1 No.) - 2.325 Kg. X 4 Nos. X 3 Nos. = 27.9 Kg.										
3	<b>GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.</b>	Kg.	36.000	13.4	68.00	78.20	10.00	6.80	244.80	2815.20	3060.00
4	<b>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 &amp; 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.</b>	No.	12	6.1 & 58.3	1100.00	1265.00	10.00	110.00	1320.00	15180.00	16500.00
5	<b>Polymeric Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.</b>										
5.01	11 KV, Disc Insulator (45 KN Tounge & Clevis type) with suitable hardware fittings	No.	12	4.5	135.00	155.25	10.00	13.50	162.00	1863.00	2025.00
5.02	11 KV, Pin Insulators with hardware fittings	No.	18	4.7	148.00	170.20	10.00	14.80	266.40	3063.60	3330.00
6	<b>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:</b>										
6.01	3 Ph 25 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 25 A SP MCCB (outgoing) with metering	No	3	58.11	500.00	575.00	10.00	50.00	150.00	1725.00	1875.00
7	<b>11 KV Distribution Class Lightning Arrester for DT as per technical specification, approved drawings and scope of work.</b>	No	9	11.1	420.00	483.00	10.00	42.00	378.00	4347.00	4725.00
8	<b>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</b>	No.	3	12.1	6000.00	6900.00	10.00	600.00	1800.00	20700.00	22500.00
9	<b>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,</b>	Set	3	58.5	1540.00	1771.00	10.00	154.00	462.00	5313.00	5775.00
10	<b>Dead End Clamp Assembly with Eye Hook</b>	No.	6	3.7	244.00	280.60	10.00	24.40	146.40	1683.60	1830.00
11	<b>Barbed Wire</b>	Kg.	6	6.3	50.00	57.50	10.00	5.00	30.00	345.00	375.00
12	<b>Danger Plate (with Clamp)</b>	No.	6	58.7	66.00	75.90	10.00	6.60	39.60	455.40	495.00
13	<b>Phase Indication Plates for each phase set of 3 (On H-Pole &amp; 4 Pole)</b>	Set.	3	58.6	55.00	63.25	10.00	5.50	16.50	189.75	206.25
14	<b>LT XLPE Armoured Cable 3.5Cx25mm2</b>	Km.	0.024	29.3	102076.00	117387.40	5.00	5103.80	122.49	2817.30	2939.79
15	<b>Cable Termination Kit suitable for 95 mm2 cable</b>	No.	9	42.2	340.00	391.00	10.00	34.00	306.00	3519.00	3825.00
16	<b>ACSR Conductor 50mm2 (or equivalent AAAC conductor) for jumpering</b>	Km.	0.066	5.1	26540.00	30521.00	10.00	2654.00	175.16	2014.39	2189.55
17	<b>Insulated Rabbit conductor (2.5 m per phase)</b>	Km.	0.0225	JVVNL rates at S.	50485.00	58057.75	10.00	5048.50	113.59	1306.30	1419.89
18	<b>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.</b>	No.	3	7.1	44727.00	51436.05	2.00	894.54	2683.62	154308.15	156991.77
	<b>Total</b>								<b>12265.63</b>	<b>258940.93</b>	<b>271206.56</b>

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.

Prepared by

AE/ P&D

Checked by

Xen / P&D

Verified by

SE / P&D

Pre-Audited by

**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

Local Transportation, Insurance and other Incidental Services

Bidder's Name & Address:

All prices in Indian Rupees

D (7). Estimate for Augmentation of 47 Nos. DTRs from existing to 100 KVA (Connecting/ UnConnecting - 47 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	Augmentation of DTR substation by new GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.	Kg	235.000	13.4	68.00	78.20	10.00	6.80	1598.00	18377.00	19975.00
2	Augmentation of DTR substation by new Polymeric Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.										
2.01	11 KV, Disc Insulator with suitable hardware fittings	No.	141	4.5	135.00	155.25	10.00	13.50	1903.50	21890.25	23793.75
2.02	11 KV, Post Insulators / Pin Insulators with hardware fittings	No.	282	4.7	148.00	170.20	10.00	14.80	4173.60	47996.40	52170.00
3	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.	94	6.1 & 58.3	1100.00	1265.00	10.00	110.00	10340.00	118910.00	129250.00
4	LT PVC 3.5Cx120mm <sup>2</sup>	Km.	1.504	28.15	261750.00	301012.50	5.00	13087.50	19683.60	452722.80	472406.40
5	ACSR Conductor 80mm <sup>2</sup> (or equivalent AAAC conductor) for jumpering	Km	1.034	5.2	38528.00	44307.20	10.00	3852.80	3983.80	45813.64	49797.44
6	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.	47	7.3	101516.00	116743.40	2.00	2030.32	95425.04	5486939.80	5582364.84
	<b>Total</b>								<b>137107.54</b>	<b>6192649.89</b>	<b>6329757.43</b>

- 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.

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D

**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

Local Transportation, Insurance and other Incidental Services

Bidder's Name & Address:

All prices in Indian Rupees

D (8). Estimate for Augmentation of 65 Nos. DTRs from existing to 63 KVA (Connecting/ UnConnecting - 65 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	Augmentation of DTR substation by new GI Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.	Kg	325.000	13.4	68.00	78.20	10.00	6.80	2210.00	25415.00	27625.00
2	Augmentation of DTR substation by new Polymeric Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.										
2.01	11 KV, Disc Insulator with suitable hardware fittings	No.	195	4.5	135.00	155.25	10.00	13.50	2632.50	30273.75	32906.25
2.02	11 KV, Post Insulators / Pin Insulators with hardware fittings	No.	390	4.7	148.00	170.20	10.00	14.80	5772.00	66378.00	72150.00
3	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.	130	6.1 & 58.3	1100.00	1265.00	10.00	110.00	14300.00	164450.00	178750.00
4	LT PVC 3.5Cx50mm <sup>2</sup>	Km.	2.08	29.4	158495	182269.25	5.00	7924.75	16483.48	379120.04	395603.52
5	ACSR Conductor 50mm <sup>2</sup> (or equivalent AAAC conductor) for jumpering	Km	1.43	5.1	26540.00	30521.00	10.00	2654.00	3795.22	43645.03	47440.25
6	63KVA, 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.	65	7.2	63739.00	73299.85	2.00	1274.78	82860.7	4764490.25	4847350.95
	<b>Total</b>								<b>128053.90</b>	<b>5473772.07</b>	<b>5601825.97</b>

- 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.

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D

**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

**D (9) & D (10) Estimate for Conversion of 70.6 Kms. existing LT Overhead Line to AB cable (3CX95+70 mm<sup>2</sup>) (Connecting / UnConnecting HHs - 70.6 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	2047	1.1	2020.00	2323.00	15.00	303.00	620241.00	4755181.00	5375422.00
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.	706	6.1 & 58.3	1100.00	1265.00	10.00	110.00	77660.00	893090.00	970750.00
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.	71	58.5	1540.00	1771.00	10.00	154.00	10934.00	125741.00	136675.00
3.02	GI Earthing spike made of 20mm solid Rod	No.	424	JVVNL rates	616.68	709.18	10.00	61.67	26147.23	300693.17	326840.40
3.03	8 SWG GI wire, GI nuts, bolts & washers for earthing and guarding	Kg.	1059.00	6.2	52.00	59.80	10.00	5.20	5506.80	63328.20	68835.00
4	Suspension Clamp Assembly suitable for AB Cable (with eye hook)	No.	1341	3.6	425.00	488.75	10.00	42.50	56992.50	655413.75	712406.25
5	Dead End Clamp Assembly suitable for AB Cable (with eye hook)	No.	706	3.7	244.00	280.60	10.00	24.40	17226.40	198103.60	215330.00
6	Hot dip Galvanised Eye Screw Bolt 9"x5/8" (1 No.)- 0.483 Kg. X 29 Nos. X 70.6 Kms.= 988.894 Kg.	Kg.	988.894	13.2 & RGGVY	62.76	72.17	10.00	6.28	6206.28	71372.25	77578.53
7	Phase Indication Plates for each phase set of 3 (On H-Pole & 4 Pole)	Set.	282	58.6	55.00	63.25	10.00	5.50	1551.00	17836.50	19387.50
8	Jt. Kit O/D LT ABC 3Cx150+1Cx150 HS	No.	847		1648.06	1895.27	10.00	164.81	139590.68	1605292.84	1744883.53
9	LT AB cable of size 3CX 95+1X70 sq mm Conductor.	KM	74.130	31.40	198845.00	228671.75	5.00	9942.25	737018.99	16951436.83	17688455.82
	<b>Total</b>								<b>1699074.89</b>	<b>25637489.14</b>	<b>27336564.02</b>

- 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.

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D



**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

**E(11) - Estimate for Replacement of 3424 nos. defective meters (1-Ph Domestic and Commercial meters) (Metering - 3424 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.	3424	20.1	890.00	1023.50	10.00	89.00	304736.00	3504464.00	3809200.00
		<b>Total</b>							<b>304736.00</b>	<b>3504464.00</b>	<b>3809200.00</b>

- 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.

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D

**Rural Electrification Works in Sirsa District in Haryana under DDUGJY**

**C (3) & D (6) Estimate for release of 4964 Nos. BPL connections (Sansad Adarsh Gram Yozna - 22 Nos. & Connecting / Unconnecting HHs - 4942 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	148.920	28.7	11142.00	12813.30	5.00	557.10	82963.33	1908156.64	1991119.97
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.	4964	20.1	890.00	1023.50	10.00	89.00	441796.00	5080654.00	5522450.00
3	Polycarbonate weather prof outdoor type Meter Cover Boxes (MCB) for single phase meter alongwith Zinc plated Clamp as per Nigams Technical Specification.	No.	4964	22.4	264.00	303.60	10.00	26.40	131049.60	1507070.40	1638120.00
4	MCB 6A with Box	No	4964	Mkt. price	55.00	63.25	10.00	5.50	27302.00	313973.00	341275.00
5	PVC conduit Pipe 20mm dia	Mtr.	14892	Mkt. price	25.00	28.75	10.00	2.50	37230.00	428145.00	465375.00
6	Conduit Clip Batten Holder	No.	4964	Mkt. price	30.00	34.50	10.00	3.00	14892.00	171258.00	186150.00
7	9 W LED Bulb	No.	4964	cost on which nigam distributed	75.00	86.25	10.00	7.50	37230.00	428145.00	465375.00
8	LT connector	No.	4964	Mkt. price	10.00	11.50	10.00	1.00	4964.00	57086.00	62050.00
9	Switch Board : Wooden / Fiber Glass Reinforced Polyester sheet moulding compound (SMC) board {200x150x40 (minimum)}	No.	4964	Mkt. price	100.00	115.00	10.00	10.00	49640.00	570860.00	620500.00
10	ISI mark, Piano type 5A, 240V, Switch	No.	9928	Mkt. price	14.00	16.10	10.00	1.40	13899.20	159840.80	173740.00
11	ISI mark, 5A, 240V, three-pin socket	No.	4964	Mkt. price	17.00	19.55	10.00	1.70	8438.80	97046.20	105485.00
12	Earth terminal	No.	4964	Mkt. price	10.00	11.50	10.00	1.00	4964.00	57086.00	62050.00
13	House wiring single core 1.5 sq mm multi-strands copper conductor cable	Mtr.	49640	Mkt. price	8.00	9.20	10.00	0.80	39712.00	456688.00	496400.00
14	LED light point	No.	4964	Mkt. price	10.00	11.50	10.00	1.00	4964.00	57086.00	62050.00
15	GI Wire 3.15mm dia (10SWG)	Mtr.	148920	Mkt. price	5.00	5.75	10.00	0.50	74460.00	856290.00	930750.00
16	G.I. Pipe (20 mm dia)	Mtr.	14892	Mkt. price	30.00	34.50	10.00	3.00	44676.00	513774.00	558450.00
17	MS flat clamps (40x3mm)	No.	9928	Mkt. price	50.00	57.50	10.00	5.00	49640.00	570860.00	620500.00
<b>Total</b>									<b>1067820.93</b>	<b>13234019.04</b>	<b>14301839.97</b>

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

Prepared by

Checked by

Verified by

Pre-Audited by

AE/ P&D

Xen / P&D

SE / P&D