



DISTRICT OFFICE GAJAPATI

COLLECTOR cum DISTRICT MAGISTRATE GAJAPATI

Phone No. - 06815-222420

Email: - dm.gajapati@gmail.com

TENDER NOTICE NO. 8137

DATE. 17-09-19.

1. For and on behalf of Government of Odisha the undersigned invites sealed tenders in duplicate super-subscribing the tender notice no. and date of opening from reputed firms having valid HT electrical contractor license or any of its employee having valid HT electrical contractor license issued by ELBO for electrification of villages/Hamlets under Biju Gramya Jyoti Programme as mentioned in the tender schedule under **Rayagada Block** of Gajapati District on Turn Key basis for the year 2019-20.

NAME OF THE WORK	NAME OF BLOCK	No of projects	COST OF WORKS/ PER BLOCK (in Rupees)	EMD @1% OF THE ESTIMATE D COST (in rupees.)	COST OF TENDER DOCUMENTS INCLUDING 12% GST (NON REFUNDABLE) (in Rupees)	PERIOD OF COMPLETION
<p>Strengthening of electrical infrastructure at specified Villages/ Hamlets with following works under BGJY (SI) Scheme.</p> <p>* Erection of intermediate poles (8mtr long 200Kg PSC poles) and replacing of 3P 4W LT AB cable of size (3x35+1x25)mm² in place of bare conductor (8nos intermediate poles per Km) 6.5Km</p> <p>* Erection of intermediate poles on existing 11KV line with 9mtr long 300Kg PSC poles (6nos of intermediate poles (5 pin points and 1 cut point) per Km) 50.00Km</p> <p>* Installation of 11KV line AB Switch (3Pole 400A) with DP structure alongwith 9mtr long 300Kg PSC poles 14nos</p>	Rayagada	26	60,27,999.00	60,280.00	11200.00	90 days

<p>Construction of lines and sub-station for electrification and augmentation of existing system of new rehabilitated village / Hamlet of Cyclone "Titli" under Rayagada Block under BGJY Scheme</p> <p>* Conversion of 11KV line from 2Ph to 3Ph with 55mm² AAAC 6.3Km</p> <p>* Construction of 11KV 3Ph 3W line with 55mm² AAAC alongwith 9mtr long 300Kg PSC pole (span length 50mtr) 7.550Km</p> <p>* Construction of 100KVA, 11/0.4KV DP Mounted Sub-station with 9mtr long 300Kg PSC pole 3no.</p> <p>* Construction of 63KVA, 11/0.4KV DP Mounted Sub-station with 9mtr long 300Kg PSC pole 3nos.</p> <p>* Construction of 25KVA, 11/0.4KV DP Mounted Sub-station with 9mtr long 300Kg PSC pole 6nos.</p> <p>* Construction of 3Ph 4W LT line with (3*35+1*25)mm² AB cable and 8mtr long 200Kg PSC pole(with span length 35mtr) = 3.41Km</p>	Rayagada	13	76,24,325.00	76243.00		90 days
TOTAL	Rayagada	39	1,36,52,324.00	1,36,523.00	11200.00	90 DAYS

2. Bidding required for the **Rayagada Block** under Gajapati District:

3. Bid documents consisting of specification, schedule of quantities and set of terms and conditions of contract and other necessary documents can be had from the office of the PD DRDA in person on application & payment of the cost of the tender documents in shape of Demand Draft drawn on any nationalized bank in favour of "**Collector cum District Magistrate, Gajapati**" payable at Paralakhemundi or from the Official website www.gajapati.nic.in. In case of downloading the tender documents from the website, the bidder should furnish a Bank Draft for the cost of tender document along with his bid without which the bid will be rejected. The cost of tender paper is not refundable. The undersigned is not responsible for any addition or omission in the bid in case it is downloaded by the bidders from the website.

4. Bids must be accompanied by EMD/ Bid security amount specified above in shape of demand draft drawn on any nationalized bank in favour of "**Collector cum District Magistrate, Gajapati**" payable at Paralakhemundi. Alternatively the bid security can be furnished in shape of bank Guaranty for the said amount issued by any nationalized Bank payable in Paralakhemundi in the prescribed format only. If the bank Guarantee is not in the required format the bid will be rejected.
5. The sale of bid documents shall start from ~~Dt.17.09.2019~~ during office hours and the completed bid documents shall be received up to ~~Dt.19.09.2019~~ at **13.00Hrs.** in the office of the PD DRDA Gajapati by speed post only. No tender will be entertained after scheduled date and time. The undersigned is not responsible for any postal delay.
6. The bidders can quote their rates for individual village wise package separately but the undersigned reserves the right to place work order for works under both the scheme BGJY & BGJY (System Improvement) under **RAYAGADA** block to a bidder at a time for expeditious completion of the project. The EMD will be 1% of the estimated cost of nos of packages for which rates are quoted. The bidders should quote their rate for individual package in separate tender papers and keep inside sealed cover and super scribe the name of the package and for the year in **BOLD LETTERS** on the envelope.
7. The technical bids will be opened on ~~Dt.19.09.2019~~ at **16.00Hrs.** in the office of the PD DRDA Gajapati in the presence of the bidders or their authorised representative. If the office happens to be closed on the last date of the received or opening of the bids as specified the bids will be received /opened in the next working day at the same time and venue.
8. The bidders are required to submit EMD / Bid Security Amount and cost of Tender Document.
9. Purchase receipt paper cost along with the attested copies of valid registration certificate, ITCC, PAN Card, TAN Card and up to date GST clearance certificate with bid documents, otherwise his /her bid shall be declared as non-responsive and thus liable for rejection. The bidder should produce EPF and Labour License before undersigned as and when required. The bidders registered in other state Govt. are required to produce non assessment certificate obtained from the Sale Tax Commissioner, Govt. of Odisha at time of submission of Tender.
10. The bidders are required to quote their rate both in words and figures. The bidders are required to put their signature on any overwriting or any correction made in the bid rate. The bid filled in figures without mentioning in words shall be liable for rejection.
11. Penalty @ 0.5% per week up to a maximum of 5% of the total value of the work order will be imposed, if the work is not completed within 90 days of awarding of work orders.
12. Other details can be seen in the bidding documents.
13. The authority reserves the right to reject any or all the bids without assigning any reason thereof.


**Collector cum District Magistrate
Gajapati District**

BID PROPOSAL

SHEETS

SCHEDULE OF BIDS FOR TECHNICAL

1. Name of tenderer with Office and factory address :
Tel.No/Telex.No/Fax No.
2. Specification No-
3. Address of Local office and Tel No/Telex/Fax No. :
4. Tenderers reference No- :
5. Last date and time of submission of tender :
6. Date and time of Opening of tender :
7. Category of organization :
8. Particulars of Earnest money submitted :
9. Whether Southco delivery clause accepted :
10. Whether agreed to
a) Inspection clause :
b) Packing clause :
c) Retesting clause :
11. Whether the material/equipment offered
Confirmed to the relevant ISS specification
and drawing :
12. Whether executed orders previously for the
Items tendered now. Give full details :
13. Whether the materials bears ISI mark :
14. Offered valid upto :
15. Delivery schedule :
a) Commence with minimum quantity :
b) Rate of delivery per month/quarter
and completion time. :
16. If any deviation please mention in the
Deviation sheet enclosed. :
17. Technical literature/catalogue of the
Materials offered enclosed. :
18. Bidders work experience
Including user certificate furnished or not :
19. Whether Guaranteed Technical Data sheet
Particulars submitted. :

Signature of Bidder
With name and Seal of Firm

(This form is to be duly filled up and duly signed by the Bidder and Submitted along with tender)

ABSTRACT OF GENERAL TERMS AND CONDITIONS

1. Earnest money Furnished :
2. Contractor/Firms work experience :
Including users certificate furnished or not
3. Deviation to the specification, if any :
(list enclosed or Not)
4. Guaranteed technical particulars :
5. Delivery/ Execution :
Date of commencement or execution :
6. Guarantee : whether agreeable to Southco terms :
7. Whether agreeable to furnish security :
Deposit in shape of Bank Guarantee in
Case his tender is successful. :
8. Terms of payment : Whether agreeable :
To Southco standard terms of payment or not :
9. Sub-Contractor/ Authorised representative :
10. Turn over Certificate furnished :
Chartered accountant. :
11. Valid ITCC & STCC Submitted :

Signature of the bidder
Name and with seal of firm

(This form is to be duly filled up and duly signed by the bidder and submitted along with the tender)

SCHEDULE FOR PRICE BID

SI No	Description of the work	Unit	Qty.	Unit Rate in Rs.	Total Amount in Rs.
A	Supply and Erection of intermediate poles (8mtr long 200Kg PSC poles) and replacing of 3P 4W LT AB cable of size (3x35+1x25)mm ² in place of bare conductor (8nos intermediate poles per Km) as per the materials list enclosed	Km	1		
B	Supply and Erection of intermediate poles on existing 11KV line with 9mtr long 300Kg PSC poles (6nos of intermediate poles (5 pin points and 1 cut point) per Km) as per the materials list enclosed.	Km	1		
C	Supply and Installation of 11KV line AB Switch (3Pole 400A) with DP structure with 9mtr long 300Kg PSC poles as per the materials list enclosed.	No.	1		
D	1. Conversion of 11KV line from 2Phase to 3Phase with 55mm ² AAAC at Baraghara under Gangabada GP	Km	2.8		
	2. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole (Road cross guarding 1no.) at Baraghara under Gangabada GP	Km	03		
	3. Construction of 100KVA, 11/0.4KV DP mounted S/s at Baraghara under Gangabada GP	No.	01		
	4. Construction of 3Ph 4W LT line with (3*50+1*35)mm ² AB cable and 8mtr long 200Kg PSC pole at Baraghara under Gangabada GP	Km.	0.49		
E	1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole at Burusunda Nuasahi under Koinpur GP	Km	0.1		
	2. Construction of 25KVA, 11/0.4KV DP mounted S/s at Burusunda Nuasahi under Koinpur GP	No	01		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm ² AB cable and 8mtr long 200Kg PSC pole at Burusunda Nuasahi under Koinpur GP	Km	0.105		
F	1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole at Kasibada under Jeeranga GP	Km	0.4		
	2. Construction of 25KVA, 11/0.4KV DP mounted S/s at Kasibada under Jeeranga GP	No	01		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm ² AB cable and 8mtr long 200Kg PSC pole at Kasibada under Jeeranga GP	Km	0.07		
G	1. Conversion of 11KV line from 2Phase to 3Phase with 55mm ² AAAC at Deula under Gangabada GP	Km	3.5		
	2. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole at Deula under Gangabada GP	Km	0.5		
	3. Construction of 100KVA, 11/0.4KV DP mounted S/s at Deula under Gangabada GP	No.	1		
	4. Construction of 3Ph 4W LT line with (3*50+1*35) mm ² AB cable and 8mtr long 200Kg PSC pole at Deula under Gangabada GP	Km	0.35		
H	1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole at Madaba Nuasahi under Koinpur GP	Km	0.05		
	2. Construction of 100KVA, 11/0.4KV DP mounted S/s at Madaba Nuasahi under Koinpur GP	No.	1		
	3. Construction of 3Ph 4W LT line with (3*50+1*35) mm ² AB cable and 8mtr long 200Kg PSC pole at Madaba Nuasahi under Koinpur GP	Km	0.385		
I	1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole at Lumudasingi Nuasahi under Koinpur GP	Km	0.250		

	2.Construction of 25KVA, 11/0.4KV DP mounted S/s at Lumudasingi Nuasahi under Koinpur GP	No.	01		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Lumudasingi Nuasahi under Koinpur GP	Km	0.350		
	4. Dismantle of existing 11KV line = 2 span at Lumudasingi Nuasahi under Koinpur GP	LS	1		
J	1. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole at Teraba Nuasahi under Koinpur	Km	0.6		
	2.Construction of 25KVA, 11/0.4KV DP mounted S/s at Teraba Nuasahi under Koinpur	No.	01		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Teraba Nuasahi under Koinpur	Km	0.105		
K	1. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole at Mada under Koinpur GP	Km	0.2		
	2.Construction of 63KVA, 11/0.4KV DP mounted S/s at Mada under Koinpur GP	No.	01		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Mada under Koinpur GP	Km.	0.210		
L	1. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole at Sindling under Koinpur GP	Km	0.150		
	2.Construction of 25KVA, 11/0.4KV DP mounted S/s at Sindling under Koinpur GP	No	1		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Sindling under Koinpur GP	Km	0.28		
M	1. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole at Raising under Koinpur GP	Km	01		
	2.Construction of 63KVA, 11/0.4KV DP mounted S/s at Raising under Koinpur GP	No	1		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Raising under Koinpur GP	Km	0.280		
N	1. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole at Langasahi under Koinpur GP	Km	1		
	2.Construction of 63KVA, 11/0.4KV DP mounted S/s at Langasahi under Koinpur GP	No	1		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Langasahi under Koinpur GP	Km	0.175		
O	1. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Suabalanga under Koinpur GP	Km	0.210		
P	1. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole = 0.300Km (Road cross guarding 1no.) at Attangapur under Laxmipur GP	Km	0.3		
	2.Construction of 25KVA, 11/0.4KV DP mounted S/s at Attangapur under Laxmipur GP	No.	1		
	3. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole at Attangapur under Laxmipur GP	Km	0.4		

Signature of the Tenderer

Signature of the Bidder

List of materials for erection of intermediate poles (8mtr long 200Kg PSC poles) and replacing of 3P 4W LT AB cable of size (3x35+1x25)mm² in place of bare conductor (8nos intermediate poles per Km)			
Sl.No.	Description of the materials	Unit	Quantity
1	200Kg 8mtr Long PSC Pole	No	8
2	LT Stay Set (Complete)	Set	2
3	LT Stay Insulator	No	2
4	Stay Clamp	Pair	2
5	7/12 SWG GI Stay Wire	Kg	14
6	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	2
7	Dead End Clamp with Eye Hook	No	2
8	Suspension Clamp with Eye Hook	No	7
9	(3x35+1x25) mm ² AB Cable	Km	1.03
10	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	1
11	Earthing (Coil Type) for Support/Pole	No	8
12	RCC Base Plate	No	8
13	M.S. Bolts, Nuts & Washers	Kg	4
14	Sundries	Ls	1

List of materials for erection of intermediate poles on existing 11KV line with 9mtr long 300Kg PSC poles (6nos of intermediate poles (5 pin points and 1 cut point) per Km)

SI.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	6
2	Straight Channel - 100x50x6mm (9.2Kg/Mtr) (1.2mtr long 2nos and 0.25mtr long 1no for one CP)	Kg	24.38
3	11 KV V Cross Arm	No	5
4	Back Clamp for V Cross Arm	No	5
5	F Clamp (Pole Top)	No	5
6	11 KV Disc Insulator (T&C)	No	12
7	11 KV H/W Fitting (T&C)	No	6
8	11 KV Pin Insulator	No	18
9	11 KV GI Pin	No	18
10	HT Stay Set (Complete)	Set	2
11	Stay Insulator	No	2
12	Stay Clamp	Pair	2
13	7/10 SWG GI Stay Wire	Kg	20
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	2
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	6
16	Earthing (Coil Type) for Support/Pole	No	6
17	Danger Board	No	6
18	RCC Base Plate	No	6
19	55 mm ² AAAC conductor	Km	0.01
20	M.S. Bolts, Nuts & Washers	Kg	7
21	Sundries	Ls	1

List of materials for installation of 11KV line AB Switch (3Pole 400A) with DP structure alongwith 9mtr long 300Kg PSC poles			
Sl.No.	Description of the materials	Unit	Quantity
1	300 Kg., 9 Mtr. long PSC pole	No.	2
2	Top Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
3	A.B. Switch mounting channel (75X40X6) mm 2.8 Mtr. 2 No. (6.8 Kg. / Mtr.)	Kg.	38.08
4	Cantilever channel for supporting AB Switch (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
5	Angle for cantilever arrangement for AB switch (50x50x6) mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
6	Bracing channel 75*40*6mm MS channel 2.8mtr *2nos	Kg	38.08
7	50*50*4mm size MS angle for cross bracing (2.5mtr 2nos)	Kg	22.5
8	11 KV Disc Insulator (T&C)	No.	12
9	11 KV H/W fitting (T&C) type	No.	6
10	11 KV AB switch 3 Pole, 400Amp (H type)	Set	1
11	HT stay set (Complete)	No.	4
12	Stay insulator	No.	4
13	Stay clamp	Pair	4
14	7/10 GI stay wire	Kg.	40
15	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	2
16	Earthing support (coil type)	No.	2
17	No.6 GI wire for earthing	Kg.	10
18	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
19	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
20	Material for masonry work for earth pit, charcoal, salt, etc.	No.	2
21	M.S. Nuts,Bolts & Washers	Kg.	15
22	Sundries	LS	1

List of materials for 1. Conversion of 11KV line from 2Phase to 3Phase with 55mm ² AAAC = 2.8Km (40 span) 2. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole = 3Km (Road cross guarding 1no.) 3. Construction of 100KVA, 11/0.4KV DP mounted S/s = 1no. 4. Construction of 3Ph 4W LT line with (3*50+1*35)mm ² AB cable and 8mtr long 200Kg PSC pole = 490Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	Straight Channel - 100x50x6mm 0.25Mtr for top piece @9.2Kg/Mtr	Kg	41.4
2	11 KV Disc Insulator (T&C)	No	36
3	11 KV H/W Fitting (T&C)	No	18
4	11 KV Pin Insulator	No	40
5	11 KV GI Pin	No	40
6	55 mm ² AAAC conductor	Km	2.884
7	M.S. Bolts, Nuts & Washers	Kg	20
8	Sundries	Ls	1
9	300kg 9mtr Long PSC Pole	No	60
10	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	320.16
11	11 KV V Cross Arm	No	48
12	Back Clamp for V Cross Arm	No	48
13	F Clamp (Pole Top)	No	48
14	11 KV Disc Insulator (T&C)	No	156
15	11 KV H/W Fitting (T&C)	No	78
16	11 KV Pin Insulator	No	180
17	11 KV GI Pin	No	180
18	HT Stay Set (Complete)	Set	24
19	Stay Insulator	No	24
20	Stay Clamp	Pair	24
21	7/10 SWG GI Stay Wire	Kg	240
22	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	24
23	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	60
24	Earthing (Coil Type) for Support/Pole	No	60
25	Danger Plate	No	60
26	RCC Base Plate	No	60
27	55 mm ² AAAC conductor	Km	9.270
28	No.6 G.I. Wire for road cross guarding	Kg	35
29	100*50*6mm MS Channel for guarding (9.2Kg/mtr)	Kg.	55.2

30	M.S. Bolts, Nuts & Washers	Kg	95
31	Sundries	Ls	1
32	300 Kg., 9 Mtr. long PSC pole	No.	2
33	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
34	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
35	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
36	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
37	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
38	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
39	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
40	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
41	11 KV AB switch 3 Pole, 200Amp	Set	1
42	11 KV HG fuse 3 pole, 200Amp	Set	1
43	11 KV Lightning arrester	No.	3
44	LT distribution box for 100KVA DTR including Kit Kat fuse	No.	1
45	HT stay set (Complete)	No.	4
46	HT Stay insulator	No.	4
47	HT Stay clamp	Pair	4
48	7/10 GI stay wire	Kg.	40
49	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
50	Earthing support (coil type)	No.	2
51	25*4mm GI Flat for earthing	Kg.	30
52	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
53	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
54	Couping material for Support/Pole	No	2
55	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
56	Clamp connector and jumpering materials	LS	1
57	100KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
58	1C X 120mm ² LT XLPE cable (Armoured)	Mtr.	52
59	Socket & other Cable Accessories	Ls	1
60	M.S. Nuts,Bolts & Washers	Kg.	36
61	Sundries (Al binding tape, Insulation tape, Metal	LS	1

	Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)		
62	8mtr Long 200Kg. PSC Pole	No.	14
63	RCC Base Plate	No.	14
64	LT Stay Set (Complete)	Set	5
65	LT Stay Insulator	No	5
66	Stay Clamp	Pair	5
67	7/12 SWG GI Stay Wire	Kg	35
68	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	5
69	Suspension Clamp with Eye Hook	No	9
70	Dead End Clamp with Eye Hook	No	9
71	(3*50+1*35)mm ² XLPE AB Cable	Mtr.	505
72	Concrete material for Support/Pole for cut point	No	5
73	Earthing (Coil Type) for Support/Pole	No	14
74	M.S. Bolts, Nuts & Washers	Kg	7
75	Sundries	Ls	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm² AAAC alongwith 9mtr long 300Kg PSC pole = 0.100Km 2. Construction of 25KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm² AB cable and 8mtr long 200Kg PSC pole = 105Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	1
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	26.68
3	11 KV V Cross Arm	No	1
4	Back Clamp for V Cross Arm	No	1
5	F Clamp (Pole Top)	No	1
6	11 KV Disc Insulator (T&C)	No	12
7	11 KV H/W Fitting (T&C)	No	6
8	11 KV Pin Insulator	No	3
9	11 KV GI Pin	No	3
10	HT Stay Set (Complete)	Set	1
11	Stay Insulator	No	1
12	Stay Clamp	Pair	1
13	7/10 SWG GI Stay Wire	Kg	10
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	1
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	1
16	Earthing (Coil Type) for Support/Pole	No	1
17	Danger Plate	No	1
18	RCC Base Plate	No	1
19	55 mm ² AAAC conductor	Km	0.309
20	M.S. Bolts, Nuts & Washers	Kg	2
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm	Kg.	13.6

	1 mtr 2 No. (6.8 Kg. / Mtr.)		
27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 25KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	25KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 35mm ² LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	3
53	RCC Base Plate	No.	3
54	LT Stay Set (Complete)	Set	2

55	LT Stay Insulator	No	2
56	Stay Clamp	Pair	2
57	7/12 SWG GI Stay Wire	Kg	14
58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	2
59	Suspension Clamp with Eye Hook	No	0
60	Dead End Clamp with Eye Hook	No	5
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	108
62	Concrete material for Support/Pole for cut point	No	2
63	Earthing (Coil Type) for Support/Pole	No	3
64	M.S. Bolts, Nuts & Washers	Kg	1
65	Sundries	Ls	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm² AAAC alongwith 9mtr long 300Kg PSC pole = 0.400Km 2.Construction of 25KVA, 11/0.4KV DP mounted S/s = 1no. (Handed over to Southco Utility) 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm² AB cable and 8mtr long 200Kg PSC pole = 70Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	8
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	53.36
3	11 KV V Cross Arm	No	6
4	Back Clamp for V Cross Arm	No	6
5	F Clamp (Pole Top)	No	6
6	11 KV Disc Insulator (T&C)	No	24
7	11 KV H/W Fitting (T&C)	No	12
8	11 KV Pin Insulator	No	24
9	11 KV GI Pin	No	24
10	HT Stay Set (Complete)	Set	3
11	Stay Insulator	No	3
12	Stay Clamp	Pair	3
13	7/10 SWG GI Stay Wire	Kg	30
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr = 0.3Cum	No	3
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	8
16	Earthing (Coil Type) for Support/Pole	No	8
17	Danger Plate	No	8
18	RCC Base Plate	No	8
19	55 mm ² AAAC conductor	Km	1.236
20	M.S. Bolts, Nuts & Washers	Kg	10
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
27	Cantilever channel for supporting HG fuse (50X50X6) mm	Kg.	9

	angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)		
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 25KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	25KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 35mm2 LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	2
53	RCC Base Plate	No.	2
54	LT Stay Set (Complete)	Set	1
55	LT Stay Insulator	No	1
56	Stay Clamp	Pair	1
57	7/12 SWG GI Stay Wire	Kg	7
58	Concrete material for Stay Anchor Plate(1.5 feet Length	No	1

	x1.5 feet width x 3 feet depth)		
59	Suspension Clamp with Eye Hook	No	1
60	Dead End Clamp with Eye Hook	No	1
61	(3*35+1*25)mm2 XLPE AB Cable	Mtr.	72
62	Concrete material for Support/Pole for cut point	No	1
63	Earthing (Coil Type) for Support/Pole	No	2
64	M.S. Bolts, Nuts & Washers	Kg	1
65	Sundries	Ls	1

List of materials for 1. Conversion of 11KV line from 2Phase to 3Phase with 55mm2 AAAC = 3.5Km (50 span) 2. Construction of 11KV 3Ph 3W line with 55mm2 AAAC alongwith 9mtr long 300Kg PSC pole = 0.5Km 3. Construction of 100KVA, 11/0.4KV DP mounted S/s = 1no. (Handed over to Southco Utility) 4. Construction of 3Ph 4W LT line with (3*50+1*35)mm2 AB cable and 8mtr long 200Kg PSC pole = 350Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	Straight Channel - 100x50x6mm 0.25Mtr for top piece @9.2Kg/Mtr	Kg	46
2	11 KV Disc Insulator (T&C)	No	44
3	11 KV H/W Fitting (T&C)	No	22
4	11 KV Pin Insulator	No	50
5	11 KV GI Pin	No	50
6	55 mm ² AAAC conductor	Km	3.605
7	M.S. Bolts, Nuts & Washers	Kg	23
8	Sundries	Ls	1
9	300kg 9mtr Long PSC Pole	No	10
10	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	80.04
11	11 KV V Cross Arm	No	8
12	Back Clamp for V Cross Arm	No	8
13	F Clamp (Pole Top)	No	8
14	11 KV Disc Insulator (T&C)	No	24
15	11 KV H/W Fitting (T&C)	No	12
16	11 KV Pin Insulator	No	30
17	11 KV GI Pin	No	30
18	HT Stay Set (Complete)	Set	3
19	Stay Insulator	No	3
20	Stay Clamp	Pair	3
21	7/10 SWG GI Stay Wire	Kg	30
22	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	3
23	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	10
24	Earthing (Coil Type) for Support/Pole	No	10
25	Danger Plate	No	10
26	RCC Base Plate	No	10
27	55 mm ² AAAC conductor	Km	1.545

28	M.S. Bolts, Nuts & Washers	Kg	12
29	Sundries	Ls	1
30	300 Kg., 9 Mtr. long PSC pole	No.	2
31	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
32	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
33	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
34	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
35	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
36	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
37	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
38	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
39	11 KV AB switch 3 Pole, 200Amp	Set	1
40	11 KV HG fuse 3 pole, 200Amp	Set	1
41	11 KV Lightning arrestor	No.	3
42	LT distribution box for 100KVA DTR including Kit Kat fuse	No.	1
43	HT stay set (Complete)	No.	4
44	HT Stay insulator	No.	4
45	HT Stay clamp	Pair	4
46	7/10 GI stay wire	Kg.	40
47	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
48	Earthing support (coil type)	No.	2
49	25*4mm GI Flat for earthing	Kg.	30
50	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
51	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
52	Couping material for Support/Pole	No	2
53	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
54	Clamp connector and jumpering materials	LS	1
55	100KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
56	1C X 120mm ² LT XLPE cable (Armoured)	Mtr.	52
57	Socket & other Cable Accessories	Ls	1

58	M.S. Nuts,Bolts & Washers	Kg.	36
59	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
60	8mtr Long 200Kg. PSC Pole	No.	11
61	RCC Base Plate	No.	11
62	LT Stay Set (Complete)	Set	4
63	LT Stay Insulator	No	4
64	Stay Clamp	Pair	4
65	7/12 SWG GI Stay Wire	Kg	28
66	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	4
67	Suspension Clamp with Eye Hook	No	7
68	Dead End Clamp with Eye Hook	No	6
69	(3*50+1*35)mm ² XLPE AB Cable	Mtr.	361
70	Concrete material for Support/Pole for cut point	No	4
71	Earthing (Coil Type) for Support/Pole	No	11
72	M.S. Bolts, Nuts & Washers	Kg	5
73	Sundries	Ls	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole = 0.05Km 2. Construction of 100KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*50+1*35)mm ² AB cable and 8mtr long 200Kg PSC pole = 385Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	1
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	26.68
3	11 KV V Cross Arm	No	1
4	Back Clamp for V Cross Arm	No	1
5	F Clamp (Pole Top)	No	1
6	11 KV Disc Insulator (T&C)	No	12
7	11 KV H/W Fitting (T&C)	No	6
8	11 KV Pin Insulator	No	3
9	11 KV GI Pin	No	3
10	HT Stay Set (Complete)	Set	1
11	Stay Insulator	No	1
12	Stay Clamp	Pair	1
13	7/10 SWG GI Stay Wire	Kg	10
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	1
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	1
16	Earthing (Coil Type) for Support/Pole	No	1
17	Danger Plate	No	1
18	RCC Base Plate	No	1
19	55 mm ² AAAC conductor	Km	0.155
20	M.S. Bolts, Nuts & Washers	Kg	2
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
27	Cantilever channel for supporting HG fuse (50X50X6) mm	Kg.	9

	angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)		
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 100KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	100KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	1C X 120mm ² LT XLPE cable (Armoured)	Mtr.	52
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	11
53	RCC Base Plate	No.	11
54	LT Stay Set (Complete)	Set	4
55	LT Stay Insulator	No	4
56	Stay Clamp	Pair	4
57	7/12 SWG GI Stay Wire	Kg	28
58	Concrete material for Stay Anchor Plate(1.5 feet Length	No	4

	x1.5 feet width x 3 feet depth)		
59	Suspension Clamp with Eye Hook	No	7
60	Dead End Clamp with Eye Hook	No	6
61	(3*50+1*35)mm ² XLPE AB Cable	Mtr.	397
62	Concrete material for Support/Pole for cut point	No	4
63	Earthing (Coil Type) for Support/Pole	No	11
64	M.S. Bolts, Nuts & Washers	Kg	5
65	Sundries	Ls	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole = 0.250Km 2.Construction of 25KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm ² AB cable and 8mtr long 200Kg PSC pole = 350Mtr 4. Dismantle of existing 11KV line = 2 span			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	3
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	186.76
3	11 KV V Cross Arm	No	1
4	Back Clamp for V Cross Arm	No	1
5	F Clamp (Pole Top)	No	1
6	11 KV Disc Insulator (T&C)	No	54
7	11 KV H/W Fitting (T&C)	No	27
8	11 KV Pin Insulator	No	9
9	11 KV GI Pin	No	9
10	HT Stay Set (Complete)	Set	7
11	Stay Insulator	No	7
12	Stay Clamp	Pair	7
13	7/10 SWG GI Stay Wire	Kg	70
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	7
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	3
16	Earthing (Coil Type) for Support/Pole	No	3
17	Danger Plate	No	3
18	RCC Base Plate	No	3
19	55 mm ² AAAC conductor	Km	0.773
20	M.S. Bolts, Nuts & Washers	Kg	10
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm	Kg.	13.6

	1 mtr 2 No. (6.8 Kg. / Mtr.)		
27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 25KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	25KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 35mm ² LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	10
53	RCC Base Plate	No.	10
54	LT Stay Set (Complete)	Set	3
55	LT Stay Insulator	No	3
56	Stay Clamp	Pair	3

57	7/12 SWG GI Stay Wire	Kg	21
58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	3
59	Suspension Clamp with Eye Hook	No	7
60	Dead End Clamp with Eye Hook	No	4
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	361
62	Concrete material for Support/Pole for cut point	No	3
63	Earthing (Coil Type) for Support/Pole	No	10
64	M.S. Bolts, Nuts & Washers	Kg	5
65	Sundries	Ls	1
66	Dismantle of existing 11KV line 2 span	LS	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole = 0.600Km 2.Construction of 25KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm ² AB cable and 8mtr long 200Kg PSC pole = 105Mtr			
SI.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	12
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	160.08
3	11 KV V Cross Arm	No	8
4	Back Clamp for V Cross Arm	No	8
5	F Clamp (Pole Top)	No	8
6	11 KV Disc Insulator (T&C)	No	60
7	11 KV H/W Fitting (T&C)	No	30
8	11 KV Pin Insulator	No	36
9	11 KV GI Pin	No	36
10	HT Stay Set (Complete)	Set	9
11	Stay Insulator	No	9
12	Stay Clamp	Pair	9
13	7/10 SWG GI Stay Wire	Kg	90
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	9
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	12
16	Earthing (Coil Type) for Support/Pole	No	12
17	Danger Plate	No	12
18	RCC Base Plate	No	12
19	55 mm ² AAAC conductor	Km	1.854
20	M.S. Bolts, Nuts & Washers	Kg	17
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9

28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 25KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	25KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 35mm ² LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	3
53	RCC Base Plate	No.	3
54	LT Stay Set (Complete)	Set	2
55	LT Stay Insulator	No	2
56	Stay Clamp	Pair	2
57	7/12 SWG GI Stay Wire	Kg	14
58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	2
59	Suspension Clamp with Eye Hook	No	1

60	Dead End Clamp with Eye Hook	No	3
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	108
62	Concrete material for Support/Pole for cut point	No	2
63	Earthing (Coil Type) for Support/Pole	No	3
64	M.S. Bolts, Nuts & Washers	Kg	1
65	Sundries	Ls	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole = 0.200Km 2.Construction of 63KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm ² AB cable and 8mtr long 200Kg PSC pole = 210Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	3
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	53.36
3	11 KV V Cross Arm	No	2
4	Back Clamp for V Cross Arm	No	2
5	F Clamp (Pole Top)	No	2
6	11 KV Disc Insulator (T&C)	No	18
7	11 KV H/W Fitting (T&C)	No	9
8	11 KV Pin Insulator	No	9
9	11 KV GI Pin	No	9
10	HT Stay Set (Complete)	Set	2
11	Stay Insulator	No	2
12	Stay Clamp	Pair	2
13	7/10 SWG GI Stay Wire	Kg	20
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	2
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	3
16	Earthing (Coil Type) for Support/Pole	No	3
17	Danger Plate	No	3
18	RCC Base Plate	No	3
19	55 mm ² AAAC conductor	Km	0.618
20	M.S. Bolts, Nuts & Washers	Kg	4
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6

27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 63KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	63KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 50mm2 LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	7
53	RCC Base Plate	No.	7
54	LT Stay Set (Complete)	Set	3
55	LT Stay Insulator	No	3
56	Stay Clamp	Pair	3
57	7/12 SWG GI Stay Wire	Kg	21

58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	3
59	Suspension Clamp with Eye Hook	No	4
60	Dead End Clamp with Eye Hook	No	5
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	216
62	Concrete material for Support/Pole for cut point	No	3
63	Earthing (Coil Type) for Support/Pole	No	7
64	M.S. Bolts, Nuts & Washers	Kg	4
65	Sundries	Ls	1

List of materials for 1. Construction of 11KV 3Ph 3W line with 55mm ² AAAC alongwith 9mtr long 300Kg PSC pole = 0.150Km 2.Construction of 25KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm ² AB cable and 8mtr long 200Kg PSC pole = 280Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	3
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	26.68
3	11 KV V Cross Arm	No	3
4	Back Clamp for V Cross Arm	No	3
5	F Clamp (Pole Top)	No	3
6	11 KV Disc Insulator (T&C)	No	18
7	11 KV H/W Fitting (T&C)	No	9
8	11 KV Pin Insulator	No	9
9	11 KV GI Pin	No	9
10	HT Stay Set (Complete)	Set	1
11	Stay Insulator	No	1
12	Stay Clamp	Pair	1
13	7/10 SWG GI Stay Wire	Kg	10
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	1
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	3
16	Earthing (Coil Type) for Support/Pole	No	3
17	Danger Plate	No	3
18	RCC Base Plate	No	3
19	55 mm ² AAAC conductor	Km	0.464
20	M.S. Bolts, Nuts & Washers	Kg	4
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6)	Kg.	76.16

	mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)		
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 25KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	25KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 35mm2 LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1
52	8mtr Long 200Kg. PSC Pole	No.	8

53	RCC Base Plate	No.	8
54	LT Stay Set (Complete)	Set	3
55	LT Stay Insulator	No	3
56	Stay Clamp	Pair	3
57	7/12 SWG GI Stay Wire	Kg	21
58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	3
59	Suspension Clamp with Eye Hook	No	5
60	Dead End Clamp with Eye Hook	No	5
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	288
62	Concrete material for Support/Pole for cut point	No	3
63	Earthing (Coil Type) for Support/Pole	No	8
64	M.S. Bolts, Nuts & Washers	Kg	4
65	Sundries	Ls	1

List of materials 1. Construction of 11KV 3Ph 3W line with 55mm² AAAC alongwith 9mtr long 300Kg PSC pole = 1.00Km 2. Construction of 63KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm² AB cable and 8mtr long 200Kg PSC pole = 280Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	28
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	266.8
3	11 KV V Cross Arm	No	23
4	Back Clamp for V Cross Arm	No	23
5	F Clamp (Pole Top)	No	23
6	11 KV Disc Insulator (T&C)	No	72
7	11 KV H/W Fitting (T&C)	No	36
8	11 KV Pin Insulator	No	84
9	11 KV GI Pin	No	84
10	HT Stay Set (Complete)	Set	11
11	Stay Insulator	No	11
12	Stay Clamp	Pair	11
13	7/10 SWG GI Stay Wire	Kg	110
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	11
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	28
16	Earthing (Coil Type) for Support/Pole	No	28
17	Danger Plate	No	28
18	RCC Base Plate	No	28
19	55 mm ² AAAC conductor	Km	3.090
20	M.S. Bolts, Nuts & Washers	Kg	34
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52

25	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 63KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	63KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 50mm2 LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1

52	8mtr Long 200Kg. PSC Pole	No.	8
53	RCC Base Plate	No.	8
54	LT Stay Set (Complete)	Set	3
55	LT Stay Insulator	No	3
56	Stay Clamp	Pair	3
57	7/12 SWG GI Stay Wire	Kg	21
58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	3
59	Suspension Clamp with Eye Hook	No	5
60	Dead End Clamp with Eye Hook	No	5
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	288
62	Concrete material for Support/Pole for cut point	No	3
63	Earthing (Coil Type) for Support/Pole	No	8
64	M.S. Bolts, Nuts & Washers	Kg	4
65	Sundries	Ls	1

List of materials 1. Construction of 11KV 3Ph 3W line with 55mm² AAAC alongwith 9mtr long 300Kg PSC pole = 1.00Km 2.Construction of 63KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm² AB cable and 8mtr long 200Kg PSC pole = 175Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	20
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	160.08
3	11 KV V Cross Arm	No	17
4	Back Clamp for V Cross Arm	No	17
5	F Clamp (Pole Top)	No	17
6	11 KV Disc Insulator (T&C)	No	42
7	11 KV H/W Fitting (T&C)	No	21
8	11 KV Pin Insulator	No	60
9	11 KV GI Pin	No	60
10	HT Stay Set (Complete)	Set	6
11	Stay Insulator	No	6
12	Stay Clamp	Pair	6
13	7/10 SWG GI Stay Wire	Kg	60
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	6
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	20
16	Earthing (Coil Type) for Support/Pole	No	20
17	Danger Plate	No	20
18	RCC Base Plate	No	20
19	55 mm ² AAAC conductor	Km	3.090
20	M.S. Bolts, Nuts & Washers	Kg	23
21	Sundries	Ls	1
22	300 Kg., 9 Mtr. long PSC pole	No.	2
23	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52
24	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
25	A.B. Switch and HG fuse mounting channel (75X40X6)	Kg.	76.16

	mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)		
26	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
27	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
28	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
29	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
30	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
31	11 KV AB switch 3 Pole, 200Amp	Set	1
32	11 KV HG fuse 3 pole, 200Amp	Set	1
33	11 KV Lightning arrestor	No.	3
34	LT distribution box for 63KVA DTR including Kit Kat fuse	No.	1
35	HT stay set (Complete)	No.	4
36	HT Stay insulator	No.	4
37	HT Stay clamp	Pair	4
38	7/10 GI stay wire	Kg.	40
39	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
40	Earthing support (coil type)	No.	2
41	25*4mm GI Flat for earthing	Kg.	30
42	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
43	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
44	Couping material for Support/Pole	No	2
45	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
46	Clamp connector and jumpering materials	LS	1
47	63KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
48	3& 1/2core 50mm2 LT PVC Cable	Mtr.	13
49	Socket & other Cable Accessories	Ls	1
50	M.S. Nuts,Bolts & Washers	Kg.	36
51	Sundries (Al binding tape, Insulation tape, Metal Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)	LS	1

52	8mtr Long 200Kg. PSC Pole	No.	5
53	RCC Base Plate	No.	5
54	LT Stay Set (Complete)	Set	1
55	LT Stay Insulator	No	1
56	Stay Clamp	Pair	1
57	7/12 SWG GI Stay Wire	Kg	7
58	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	1
59	Suspension Clamp with Eye Hook	No	4
60	Dead End Clamp with Eye Hook	No	1
61	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	180
62	Concrete material for Support/Pole for cut point	No	1
63	Earthing (Coil Type) for Support/Pole	No	5
64	M.S. Bolts, Nuts & Washers	Kg	2
65	Sundries	Ls	1

List of materials 1. Construction of 3Ph 4W LT line with (3*35+1*25)mm2 AB cable and 8mtr long 200Kg PSC pole = 210Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	8mtr Long 200Kg. PSC Pole	No.	6
2	RCC Base Plate	No.	6
3	LT Stay Set (Complete)	Set	1
4	LT Stay Insulator	No	1
5	Stay Clamp	Pair	1
6	7/12 SWG GI Stay Wire	Kg	7
7	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	1
8	Suspension Clamp with Eye Hook	No	5
9	Dead End Clamp with Eye Hook	No	1
10	(3*35+1*25)mm2 XLPE AB Cable	Mtr.	216
11	Concrete material for Support/Pole for cut point	No	1
12	Earthing (Coil Type) for Support/Pole	No	6
13	M.S. Bolts, Nuts & Washers	Kg	3
14	Sundries	Ls	1

List of materials 1. Construction of 11KV 3Ph 3W line with 55mm² AAAC alongwith 9mtr long 300Kg PSC pole = 0.300Km (Road cross guarding 1no.) 2.Construction of 25KVA, 11/0.4KV DP mounted S/s = 1no. 3. Construction of 3Ph 4W LT line with (3*35+1*25)mm² AB cable and 8mtr long 200Kg PSC pole = 400Mtr			
Sl.No.	Description of the materials	Unit	Quantity
1	300kg 9mtr Long PSC Pole	No	6
2	Straight Channel - 100x50x6mm for st. Cross arm 1.2Mtr +0.25Mtr for top piece @9.2Kg/Mtr	Kg	26.68
3	11 KV V Cross Arm	No	5
4	Back Clamp for V Cross Arm	No	5
5	F Clamp (Pole Top)	No	5
6	11 KV Disc Insulator (T&C)	No	24
7	11 KV H/W Fitting (T&C)	No	12
8	11 KV Pin Insulator	No	18
9	11 KV GI Pin	No	18
10	HT Stay Set (Complete)	Set	3
11	Stay Insulator	No	3
12	Stay Clamp	Pair	3
13	7/10 SWG GI Stay Wire	Kg	30
14	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	3
15	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No	6
16	Earthing (Coil Type) for Support/Pole	No	6
17	Danger Plate	No	6
18	RCC Base Plate	No	6
19	55 mm ² AAAC conductor	Km	0.927
20	No.6 G.I. Wire for road cross guarding	Kg	35
21	100*50*6mm MS Channel for guarding (9.2Kg/mtr)	Kg.	55.2
22	M.S. Bolts, Nuts & Washers	Kg	13
23	Sundries	Ls	1
24	300 Kg., 9 Mtr. long PSC pole	No.	2
25	Pressure channel (100 X50X6)mm 2.8 Mtr. 2 No. (9.2 Kg. / Mtr.)	Kg.	51.52

26	Transformer mounting channel (100X50X6)mm 2.8 Mtr. long 2 No. (9.2Kg./Mtr.)	Kg.	51.52
27	A.B. Switch and HG fuse mounting channel (75X40X6) mm 2.8 Mtr. 4 No. (6.8 Kg. / Mtr.)	Kg.	76.16
28	Cantilever channel for supporting HG fuse (75X40X6) mm 1 mtr 2 No. (6.8 Kg. / Mtr.)	Kg.	13.6
29	Cantilever channel for supporting HG fuse (50X50X6) mm angle 1Mtr. long 2 No. (4.5 Kg. / Mtr.)	Kg.	9
30	Angle for cantilever arrangement for AB switch and HG fuse 50x50x6 mm-2mtr longx2nos(4.5Kg/mtr)	Kg.	18
31	Transformer belting (50X50X6)mm angle 2.8 Mtr. Long 2 No. (4.5 Kg. / mtr.) with side angle (total 7 Mtrs.)	Kg.	31.5
32	Angle for mounting LT distribution box (50X50X6) mm 2.5 Mtr. long 2 No. (4.5 Kg. / mtr)	Kg.	22.5
33	11 KV AB switch 3 Pole, 200Amp	Set	1
34	11 KV HG fuse 3 pole, 200Amp	Set	1
35	11 KV Lightning arrestor	No.	3
36	LT distribution box for 25KVA DTR including Kit Kat fuse	No.	1
37	HT stay set (Complete)	No.	4
38	HT Stay insulator	No.	4
39	HT Stay clamp	Pair	4
40	7/10 GI stay wire	Kg.	40
41	GI pipe earthing 40mm dia medium gauge 3 mtr long	No.	5
42	Earthing support (coil type)	No.	2
43	25*4mm GI Flat for earthing	Kg.	30
44	Cement concreting for Stay Anchor Plate with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	4
45	Cement concreting for support with CC 1:3:6 by using 4cm size hard granite metal = 0.45Mtrx0.45Mtrx1.5Mtr= 0.3Cum	No.	2
46	Couping material for Support/Pole	No	2
47	Material for masonry work for earth pit, charcoal, salt, etc.	No.	5
48	Clamp connector and jumpering materials	LS	1
49	25KVA, 11/0.4KV Transformer Star-1, BIS /EEL-2	No.	1
50	3& 1/2core 35mm ² LT PVC Cable	Mtr.	13
51	Socket & other Cable Accessories	Ls	1
52	M.S. Nuts,Bolts & Washers	Kg.	36
53	Sundries (Al binding tape, Insulation tape, Metal	LS	1

	Spreading, Anti climbing devices, paint, Danger board, barbed wire fencing etc.)		
54	8mtr Long 200Kg. PSC Pole	No.	12
55	RCC Base Plate	No.	12
56	LT Stay Set (Complete)	Set	4
57	LT Stay Insulator	No	4
58	Stay Clamp	Pair	4
59	7/12 SWG GI Stay Wire	Kg	28
60	Concrete material for Stay Anchor Plate(1.5 feet Length x1.5 feet width x 3 feet depth)	No	4
61	Suspension Clamp with Eye Hook	No	8
62	Dead End Clamp with Eye Hook	No	7
63	(3*35+1*25)mm ² XLPE AB Cable	Mtr.	412
64	Concrete material for Support/Pole for cut point	No	4
65	Earthing (Coil Type) for Support/Pole	No	12
66	M.S. Bolts, Nuts & Washers	Kg	6
67	Sundries	Ls	1

**INFORMATION
TO
BIDDERS**

INFORMATION TO BIDDERS

- The Project Director, DRDA, Gajapati invites sealed bids by the order of Collector & District Magistrate, Gajapati from eligible interested bidders on two part bidding system on Turnkey Basis for construction of new 11 KV line, Construction of Distribution Transformer Center of different capacity, construction of LT line. providing service connection to BPL household in the district of Gajapati.

- INTRODUCTION

01.01 The State Govt. of Odisha has launched “BIJU GRAM JYOTI” rural electrification Programme of the state Government for electrification of villages/habitation which are not scheduled to be covered under Rajiv Gandhi Grameen Vidyukaran Yojana (RGGVY).

01.02 Electrification of un-electrified /de-electrified villages habitations having population below 100 as per the 2001 census will be covered under this programme.

01.03 The scheme envisages Construction of New 11KV lines, Sub-stations, and LT Lines in order to cope with additional load, Which may include.

- a) Construction of New Distribution Sub-station
- b) Provision of LT less Transformer.
- c) Provision of XLPE AB cable for LT line.
- d) Up-gradation of power Transformer of 33/11KV Sub-station wherever required.
- e) Electrical service connection to the BPL households on the pattern of “KutirJyoti”.

01.04 ..**Gajapati**...District has a geographical area of Sq. Km. covering **07** nos.Blocks. There areNos, of inhabited villages in the district.

02.00 **DEFINATION OF TERMS**

In constructing this contract and the scope of work the following words will have same meaning herein assigned to them unless there is smoothing in the subject or context in context in consistent with such construction.

02.01 **Owner/Purchaser**

The "Owner/Purchase shall mean the Collector & district Magistrate...**Gajapati** and shall include its legal representative successors and assignees.

02.02 **Contractor:**

The Contractor shall mean the firm whose tender has been accepted by the owner and shall include its legal representatives successors and assignees.

02.03 **Engineer in Charge.**

The Engineer in Charge shall mean the Electrical Engineer in Charge of the work for owner or his authorized representative.

02.04 **Consignee:**

The "Consignee" shall mean the person authorized by the **Collector cum District Magistrate, Gajapati** to receive the materials, supervise and take measurement of the work.

02.05 Site

The "Specification a shall man collectively all terms stipulated in the contract known as General conditions of contract and technical field requirement, technical specification and such amendments as may be made in the agreement pertaining to the method and manner of performing the work with respect of quantities and qualities of materials and workmanship to be furnished under the contract.

02.06 Contract:

The "Contract" shall mean and include the following documents.

Invitation to Tender

Instruction to Tender

General terms of Contract and Technical field requirement

Technical specification

Contract Agreement

Contractor tender proposal including clarification letter

Letter of intend

Work Order

Agreement

02.07 Commissioning:

The “Commissioning” shall mean the first authorized operation of the equipment/installation after completion of reaction, testing, initial adjustment, statutory approvals etc.

02.08 Approved:

The “Approved” shall mean the written approval of the Consulting Engineer/Engineer-in-change.

02.09 Months:

Months shall mean the calendar month.

02.10 Performance test.

The Performance Test shall mean all the tests as prescribed in the specification/ISS to be carried out by the contractor before taking over the installation by the owner.

02.11 Final Acceptance

The “Final acceptance shall mean the written acceptance of the work performed under the contract after successful completion of performance & Guarantee Test and Commissioning.

03.01 Request for Bid Document through post will not be entertained, however Bid can be received through post but owner will not be responsible for any postal delay.

03.02 The Bids will be opened in presence of Bidders/Bidder’s representative as per Guidelines.

03.03 SUBMISSION OF TENDER

04.01 Sealed tenders in duplicate together with descriptive and illustrative super scribing Tender Notice No. and date of opening are to be submitted/sent by post to **P.D., D.R.D.A, Gajapati**, Odisha. However, owner will not be hold responsible for postal delay, in any, for non – receipt of Bid documents in time.

04.02 The Bidders are required to prepare their bid documents on the following manner.

04.03 Envelope-A-Bid security (EMD) in the form of the Bank Draft for the specified value drawn in favour of **PD, DRDA, Gajapati** payable at **Paralakhemundi**.

04.04 Envelope B-pre-qualification data in appropriate schedule, experience in similar type of work in turnkey basis supported by clients letters and data on financial turn liquidity supported by latter issued by a schedule Bank which shall have been issued within 06 (Six) months from the date of bid opening.

04.05 Envelope C- the price offer shall be furnished items as Per Price Bid after proper field survey.

The Bank document and other data as described above under each Para shall be kept in different marked envelopes A, B, C duly sealed and appropriately marked with Envelope Bid specification number, name of work and date of opening.

On the stipulated date/time the envelopes marked 'D' containing bids received shall be opened before all the representative of bidders present. Thereafter the relevant envelopes of marked A and B each bidder shall be opened in order, If on opening envelope 'A' the bid security is prima face in order then the corresponding envelope 'B' will be opened and the same will be read out as necessary.

The sealed envelope 'C' containing price bids shall be kept in safe custody which shall be opened on a date/time to be intimated to all the bidders whose bids will be found to be substantially responsive after due check and scrutiny. During evaluation to find the responsiveness of bidders, the owner will have the right to seek any clarification that might be necessary. The bidders are expected to respond to such queries within a reasonable time. However queries of owner and bidders response shall not affect the eligibility criteria in any manner.

05.00 PERFORMANCE BANK GUARANTEE.

The Bidder will submit performance Bank Guarantee along with acceptance from any nationalized / Scheduled Bank, encashable at Paralakhemundi amounting 10% of total Contract value valid for 128 months from the date of completion of the work No interest will be allowed for the Performance Bank Guarantee submitted by the bidder.

06.00 TERMS OF PAYMENT

(i) 80% of cost of materials and services along with 100% taxes and duties shall be paid within 30 days of successful commissioning of works and made operation along.

(ii) Balance 20% shall be released with 30 days of taking over of works by the electrical Engineer in charge duly certifying the system to be free of defects.

07.00 PAYING AUTHORITY:

P.D., DRDA, Gajapati will be paying authority.

08.00 GUARANTEE

In the of any defect in the materials arising out of inferior quality or raw materials and bad workmanship within a period of 18 months of execution of work, the Bidder shall guarantee to replace or repair to the satisfaction of the owner the defective materials at site free of any cost. However if the contractor fails to do so within a reasonable time the owner reserves the right to effect repair or replacement and recover charges for repair or replacement from the bidder by encashment of performance Bank Guarantee.

09.00 **INSURANCE**

10.01 All the materials shall have appropriate insurance cover from the time the same are out of the manufactures premises till work is completed.

10.02 **THIRD PARTY INSURANCE:**

The contractor shall prior to commencement of the jobs under this Work order, take out a comprehensive insurance policy against any damage or loss or injury which may occur to any property or to any person or any employee or representative of any outside agency / company engaged or not engaged for the performance of the Service and arising out of the execution of the work or temporary work or in carrying out of jobs under this work order.

10.03 **SUPERVISION AND VERIFICATION OF QUANTITY OF MATERIALS & WORKS**

10.04 The work after due completion under the supervision of Executive Engineer (Elect) Paralakhemundi Elect. Division, Southco Utility, Paralakhemundi, shall be inspected by competent authority of Electrical inspectorate Govt. Orissa. All arrangement of this inspection including deposit to self statutory fees shall be the responsibility of the Contractor.

11.00 **COMMENCEMENT AND COMPLETION OF WORK**

The work shall have to be commenced within such period so that the total work under this contract shall have to be completed within a specified time (Maximum 90 days) from the date of placement of order. The phase wise completion period shall be intimated by successful bidder to the Controlling office in due course. The bidder has to mobilize the erection team adequately to maintain target period for the total completion of the work as per programme.

11.01 **PENALTY CLAUSE**

In case the work is not completed within 3 months i.e. 90 days from the date of work order, the contractor has to pay a penalty of 0.5% of the total value of work order for each month of delay subject to maximum of 5% of the Contract value which is to be deducted from the bill of the concerned contractor.

12.00 **PROGRAMME & SCHEDULE TO BE FURNISHED**

The successful bidder has to submit to Collector & district Magistrate for approval within 15 days from the date of issue of order a detailed scheduled of programme in the form of Bar chart/GNATI Chart in detailing various activities involving drawing scheduled of material procurement, testing reliability runs / delivery etc. The Collector & District magistrate reserves the right to call for forth necessary detailed programme during currency of the contract so that he may able to follow up adequately the progress of work.

13.00 SERVICE GUARANTEE

13.01 Work Completion

In no case, the successful bidder shall abandon the scheme till completion of the work, for the same successful bidder shall have to give an undertaking improper forms otherwise risk Purchase clause shall be applicable.

13.02 Nature of Price(s)

The quoted price shall be firm throughout the contract period including the extension period (s) if any. The price schedule should be properly filled up and submitted along with other documents falling which the tender shall be rejected. Any increase in price, Taxes and duties beyond the scheduled period of the order will not be borne owner if the delay is due to any failure on the part of the Bidder.

13.03 Quantity:

The quantities mentioned in tender schedules are provisional. The Owner reserves the right to vary the quantities while placing the order with + or – 20% of tender Quantities.

13.04 Risk Purchases:

The time of completion of work stipulated in the purchase order shall be deemed to be the essence of the contract and if the Bidder fails to complete the work be nearest other substitute on the account and at the risk of bidder and Bidder shall be liable to compensate for any loss or damage which the purchase may sustain by reason of such failure on the part of the Bidder.

14.00 USE OF CONTRACT DOCUMENTS AND INFORMATION

- a) The contractor shall not without the purchaser's prior written consent disclose the contract or any provision there of or any specification, plan, information furnished by or on behalf of the purchaser in connection therewith, to any person.
- b) The manufacturer shall not without the Purchaser's prior written consent make use of any document or information except for purpose of performing the Contract.

15.00 STATUTORY OBLIGATION AGAINST THE CONTRACT

The contractor shall be responsible to comply with all statutory obligations arising out of the Law of the Land. The contractor should be duly registered with PF, EST Authority and the liability for such payment to the concerned authority shall be entirely borne by them. They should mention in the application submitted for purchase of Tender document their PF EST Code No/registration No.

No service Tax shall be paid to the contractor against this contract. The Work Contract Tax, if applicable also shall be not being paid If service Tax/Work Contract the contractor, Utility shall not accept any responsibility whatsoever on the taxes and duties as stated above, the bidder is expected to take theses into account in his price bid indicating their break up.

16.00 RESERVATION :

The purchaser reserves the right to deviate any of the terms and conditions stated herein and to split up the orders as and when necessary and reject any or all tenders without assigning any reasons whatsoever and does not bind himself to accept the lowest tenders.

17.00 LEGAL JURISDICTION:

Material pertaining to this order including its execution from the placement of the order and if any disputes thereby the necessary judicious affairs and court case shall be within jurisdiction of Paralakhemundi only.

18.00 FORCE MAJEURE

The manufacturer shall be under no liability if he is prevented from carrying out any of his obligations by reasons of war, invasion hostilities (Whiter war declared or not riots. civil commotion. mutiny insurrection. rebellion, revolution, accident, earthquake fire, floods Govt. orders and / or restrictions (except power supply restriction) delay or inability to obtain material due to import or other statutory restriction or other cause beyond the reasonable control of the bidder.

19.00 PRE-BID DISCUSSION

A pre bid meeting will be held on the stipulated date to clarify doubts (if any) of the intending bidders on the bid specification documents. The owner may also modify the stipulating in the bidding documents on it own. Bidders needing clarification shall forward their queries to the owner well in advance of per bid meeting date. Clarification / modification if any shall be issued by the purchaser / owner to all the bidders who have purchased the bidding document in the form of addendum which shall for all practical purposes be part of bidding document.

20.00 ACCEPTANCE OF ORDER

The P.D., D.R.D.A, Gajapati will communicate acceptance of Bid to the successful Bidder or his Authorized agent by a letter of intent/ formal order. The successful bidder shall communicate the acceptance of the order along with performance Bank Guarantee so as to reach the purchaser within 15 days from the date of issued of the said latter of intent/order. If the acceptance of order and the performance Bank Guarantee is not received within the above period then the earnest money against the Tender is liable to be forfeited.

21.00 GENERAL

21.01 Earnest Money in shape of DD/Bank Guarantee in favour of "P.D., DRDA, Gajapati." Must be from any Nationalized / Scheduled bank payable at Paralakhemundi.

- 02 Cost of Bidding Scheduled Contract Document = Rs.. (List enclosed) including GST.
- 03 Date of beginning of sale of Bidding document = Dt.17.09.2019 during office hours.
- 04 last date and time of receipt of Bids = Dt.03.10.2019. upto 13.00 hrs.
- 05 Date and time of opening of bid (Tech.)= Dt.03.10.2019 at 16.00 Hrs. in office of the Collector cum District Magistrate, Gajapati.
- 06 Date and time of opening of bid (Financial) will be intimated to all responsive bidders after evaluation of technical proposal.

Owner reserves the right to cancel / withdraw the invitation for bids without assigning any reasons and shall bear no liability whatsoever consequent upon such a decision.

21.02 The Bidders shall be required to keep their offers valid up to 90 days from the date of opening of Bids.

- Telex, Telegraphic or in-complete offers shall be rejected outright.
- The correspondences with regard to the above shall be made at the following address.

Sd/-

Collector cum District Magistrate

Gajapati District

INSTRUCTION TO BIDDERS

INSTRUCTION TO BIDDERS

- SCOPE

The **Project Director, Gajapati** invites sealed bids by the order of Collector cum District Magistrate, Gajapati from eligible interested bidders on two part bidding system on *Turnkey Basis* for construction of new 11 KV line, construction of Distribution transformer Sub-stations of different capacity, construction of LT line with AB Cable and Providing service connection to BPL house hold in the district of Gajapati.

02.00 COST OF BIDDING:

The bidder shall bear all costs associated with the survey, preparation and submission of the bid and PD, DRDA, Gajapati hereinafter referred to as the Purchaser / Owner shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

03.00 CONTENT OF BIDDING DOCUMENTS

The goods required, bidding procedures and contract terms are prescribed in the bidding documents, in addition to the invitation for bids the Bidding documents include.

- General Conditions of Contract
- Qualification Requirements.
- Schedule of requirements
- Technical specifications
- Price Schedules & schedule of Bids
- Earnest Money
- Performance security form.

The bidder is expected to examine all instructions, forms terms and specification in the bidding documents. Failure to furnish all information required as per the bidding documents, the bid so submitted shall come under non-responsive category and liable for rejection.

04.00 CLARIFICATION OF BIDDING DOCUMENTS

A prospective Bidder requiring any clarification of the Bidding documents may notify the purchaser / Owner in writing or by fax at the Purchaser's mailing address indicated in the invitation for Bids. The Purchaser / Owner shall respond in writing to any request for clarification of the Bidding documents which it receives not later than 10 days prior to the deadline for the submission of bids prescribed by the Purchaser. Written copies of the Purchaser's response (including an explanation of the query but without identifying the source of inquiry) shall be sent to all prospective Bidders who have purchased the bidding document.

05.00 AMENDMENT TO BIDDING DOCUMENTS

- 05.01 At any time prior to the deadline of final submission of bids, the Purchaser / Owner May for any reason whether at his own initiative or in response to a clarification requested by a prospective Bidder modify the Bidding documents by amendment.
- 05.02 The amendment shall be notified in writing or by fax or by E-mail to all prospective Bidders who have received the Bidding Documents and shall be binding on them.
- 05.03 In order to afford prospective Bidders reasonable time in which to take amendments into account in preparing their bids the purchaser may at his discretion, extend the deadline for the submission of bids.

06.00 PRELIMINARY EXAMINATION

- 06.01 The Purchaser / Owner shall examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.
- 06.02 Arithmetical errors shall be rectified on the following bases. If there is a discrepancy between the unit price and the total price shall be corrected. If the Bidder does not accept the correction of the errors, his bid shall be rejected. If there is a discrepancy between words and figures, the amount in words shall prevail.
- 06.03 Prior to the detailed evaluation, the Purchaser/ Owner shall determine the substantial responsiveness of each bid to the Bidding Documents without material deviations. The purchaser's determination of a bid's responsiveness shall be based on the contents of the bid itself without recourse to extrinsic evidence.
- 06.04 A bid determined as not substantially responsive shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- 06.05 The Purchaser / Owner may waive any minor informality or non-informality or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

7.00 CONTACTING THE PURCHASER

- 07.01 No Bidder shall contact the purchaser / Owner on any manner relating to its bid, from the time of the bid opening to the time the contract is awarded, unless requested by purchaser for any clarification, if any.
- 07.02 Any effort by a Bidder to influence the Purchaser in the purchaser's Bid evaluation, bid comparison or contract award decision may result in the rejection of the Bidder's bid.

08.00 PURCHASER'S/ OWNER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD:

The purchaser reserve the right to increase or decrease by upto 20% the quantity of goods services specified in the schedule of requirement during execution of Contract without any change in price or other terms and conditions.

09.00 PURCHASER'S / OWNER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The purchaser reserves the right to accept or reject any Bid and reject all bids at any time prior to award of contract, without there by incurring liability to affected Bidders or any obligation to inform the affected Bidders of the grounds for the purchaser's action.

10.00 CONTRACTOR'S / FIRMS CONSTRUCTION MANAGEMENT

10.01 CONTRACTOR'S / FIRM'S REPRESENTATIVE

The Contractor's / Firm's shall in addition to a project coordinator, employ one or more competent representative to supervise the carrying out of the works on site. He shall be fluent tine the language for day to day communications. Their names shall be communicated in writing to the purchaser before works on Site begins.

Any instruction or notice which the Purchase gives to the Contractor's / firm's representatives shall be deemed to have been given to the Supplier.

At least one of the Contractor's competent representatives on each site shall be fluent, in speaking. Writing reading and understating Oriya/English/Hindi

11.00 OBJECTION TO CONTRACTOR'S / FIRM'S EMPLOYEES

The Contractor's / Firm's shall, upon the Purchaser's written instructions remove from the works any person employed by him in the execution of the Works. Who misconduct himself or is incompetent or negligent.

12.00 SAFETY PRECAUTIONS:

The contractor's shall observer all applicable regulations regarding safety on the Site

13.00 ELECTRICITY AND WATER

The Supplier shall be entitled to use for the purpose of performing the Service such supplier of electricity and water as may be available on the Site and shall provide any apparatus necessary for such use. The Supplier shall pay the Purchaser at the applicable tariff plus the Purchaser's overheads, if any for such use. Where such suppliers are not available, the Supplier shall make his own arrangement for provision of any supplies he may require.

14.00 CLEARANCE OF SITE

The Contractor's shall from time to time during the progress of the works clear away and remove all surplus materials and rubbish disposal in an approved manner. On completion of the work the Supplier shall remove all suppliers' equipment and leave the whole of the site clean and in a workable condition, to the satisfaction of the purchaser. The supplier shall obtain prior approval of the purchaser to remove the surplus materials.

15.00 OPPORTUNITIES OF OTHER CONTRACTORS

The suppliers shall in accordance with Purchaser's instructions, cooperate with and afford to other contractors engaged upon the site all reasonable opportunities for carrying out their lawfully so engaged upon the site all reasonable opportunities to the employees of the purchaser.

16.00 AUTHORITY FOR ACCESS

No persons other than the employees of the contractor and his sub-contractors shall be allowed on the site except with the written consent of the Purchaser.

17.00 OBLIGATIONS OF THE PURCHASER

17.01 Access to and Possession of the Site

The purchaser shall in reasonable time grant the supplier access to the possession of the site which shall not be exclusive to the supplier.

17.02 Assistance with Local Regulation:

The purchaser shall assist to the extent possible the supplier in ascertaining the nature and extent of any laws, regulations order or bye-laws and customs in India where the Goods are to erected, which may affect the Supplier in the performance of his obligations under the contract. The Purchaser shall if so requested procure for the contractor copies thereof where available and information relating thereto at the supplier's cost.

18.00 LABOUR

18.01 Engagement of Labour:

The contractor shall unless otherwise provided in the Contract, make his own arrangements for the engagement of shall labour and for their payment, housing feeding and transport.

The Contractor/ Firm shall pay rates of wages and allowances according to the nature of the work and observe hours and working conditions of his employees, so as to be no less favorable to the employees than those generally prevailing in the region where the work is to be carried out At the same time, the Supplier shall observe all regulations prescribed by the law of the Government and shall strictly comply with any agreement, custom, practice or award relation to the wages.

The Contractor/Firm is encouraged to the extent practicable and reasonable to employ staff and labour with the required qualifications and experience from sources within the region of work.

18.02 **Return of Labour:**

The supplier shall submit detailed returns showing the supervisory staff and the numbers of the several classes of labour from time to time employed by the supplier and his subcontractors on the site. The returns shall be submitted in such form and at such intervals as the Purchaser may prescribe.

The Supplier shall within twenty-four (24) of the occurrence of any accident at or about the site or in connection with the execution of the work report such accident to the Purchaser. The supplier shall also report such accident to the competent authority whenever such report is required by the Law.

The Supplier shall keep proper wages books and time sheets showing the wages paid to and the time worked by all workmen employed by him in and for the performance of the Contractor and shall produce such wages books and time sheets on demand for inspection by any persons duly authorized by the Purchaser and shall furnish to the Purchaser such information relating to the wages and conditions of employment of such workmen as the Purchaser or his duly authorized representative may from time to time require.

- 18.03 The contractor shall take all steps necessary to comply with the various applicable laws rules / regulations notifications including but not limited to the provisions of Contract Labour (Regulation and Abolition Act) 1970 as amended, Minimum Wages Act 1984. Workman Compensation Act 1923, Employee State Insurance Act. 12948 (ESI) Public Provident Fund Act. 1968 Payment of Bonus Act 1985 and all other applicable laws and rule framed there under including any statutory approval required from the Central / State Governments, Ministry of Labour in relation to the Contractor's employee / Labourer / Workmen deployed to perform the Service under this Work Order.

19.00 **WORKMAN COMPENSATION**

- 19.01 The contractors shall take out a comprehensive insurance policy under the Workman compensation Act 1923 to cover such workers, who will be engaged to undertake the jobs covered under this work Order and a copy of this insurance policy will be given to company solely for its information, reference and records. The contractor shall ensure the such insurance policies are kept at all times.
- 19.02 The contractor shall keep the Company indemnified at all times, against all claims that may arise under this Work Order, including claims of compensation under the provisions of Workmen Compensation Act 1923, as amended from time to time or any compensation payable under any other law for the time being in force by any workman engaged by the Contractor/ sub-contractor / Sub-agent in carrying out the job involved under this Work Order and against costs and expenses, if any, incurred by the Company in connection therewith and without prejudice to any of the Company's rights make recovery.
- 19.03 The Company shall be entitled to deduct from any money due to or to become due to the Contractor under this Work Order or under any other contract, moneys paid or payable by way of compensation as aforesaid or cost or expenses in connection with any claims thereto. The Contractor shall abide by the decision of the Company as to the sums payable by the contractor under the provisions of this Clause.

19.04 Nothing contained in this Work, shall establish any relationship of any kind between the Company on the one hand and the employees, workmen and labourers, of any kind whatsoever of the Contractor on the other hand.

20.00 RESTRICTIONS ON WORKING HOURS

No work shall be carried out on the Site outside normal working hours or on the locally recognized days or rest unless.

- The contract so provides or
- The work is unavoidable or necessary for the saving of life or property for the safety of the work in which case the Supplier shall immediately advise the Purchaser or
- The purchaser gives his consent.

20.01 The Contractor shall be expected to employ on the work only his regular skilled employees with experience of the particular type of work. No female labour shall be employed after dark. No person below the age of eighteen years shall be employed.

20.02 In case the Purchaser becomes liable to pay any wages or dues to the labour or any Government agency under any of the provisions of the Minimum wages Act. Workmen Compensation Act. Contract Labour Regulation Act or any other law due to act of omission of the Contractor, the Purchaser may make payments and shall recover the same from the Contractor's invoices.

20.03 **PERMISSION TO DELIVER:**

20.04 The Contractor shall apply in writing to the Purchaser for permission to deliver any Goods or Supplier's equipment to the Site.

20.05 The Supplier shall be responsible for the receipt at Site of all goods and Supplier's equipment, delivered for the purposes of the Contract and shall, upon arrival at Site, advise the Purchase when and where it has arrived and / or been stored.

21.00 **TAKING OVER**

The Goods and services shall be taken over by the Purchaser when they have been completed in accordance with the contract, except in minor respects that do not affect the use of the Goods and Services for their intended purpose, have passed the Test on completion and a Taking over Certificate has been issued.

22.00 **INDEMNITY BOND**

For the Goods to be provided by the Supplier, it shall be the responsibility of the supplier to take delivery unload and store the Goods at Work Site and execute an Indemnity Bond, trust receipt and obtain authorization letter from the Purchaser in favour of the Supplier against loss, damage and any risks involved, for the full value of the Goods. This Indemnity Bond shall be furnished by the Supplier before commencement of the supplier and shall be initially valid till the scheduled date of testing, commissioning and handing over of the Goods to the Purchaser.

23.00 NOTIFICATIONS OF AWARD

- 23.01 Prior to expiry of the bid validity, the Purchaser shall notify the successful Bidder in writing or by Fax that its bid has been accepted.
- 23.02 The notification of award shall constitute the formation of the contract.
- 23.03 Upon the successful Bidder's furnishing of Security Bank guarantee, the purchaser shall promptly notify each unsuccessful Bidder and shall discharge their earnest Money.

24.00 SIGNING OF CONTRACT

At the same time as the purchaser notifies the successful bidder that its bid has been accepted, the purchaser shall send the bidder a Contract Form to be executed between the bidder & purchaser.

- 24.02 Within 15 days of receipt for the contact form, the successful Bidder shall sign and date the Contract form and return it to the purchaser along with the Performance Bank guarantee.
- 24.03 The Contract is to be executed on Rs. 100.00 Non-Judicial Stamp paper

25.00 CONFIDENTIALITY

The technical information drawing and other related documents forming part of this work Order and the information obtained during the course of investigation under this work order shall be the company's exclusive property and shall not be used for any other purpose except for this execution of this Work Order, the technical information drawing, records and other document shall not be copied, transferred, or divulged and / or disclosed to third party in full / part, not misused in any form whatsoever except to the extent for the execution of this Work Order.

- 25.01 In the event of any breach of this provision the Contractor shall indemnify the Company against any loss, cost or damage or claim by any party in respect of such breach.
- 25.02 The provision of the Clause shall remain effective for a period of Two (2) years from the expiry or termination of this Work Order.
- 25.03 The contractor shall not use the name of the Company in any manner either for credit arrangement or otherwise and it is agreed that the Company shall not in any way be responsible for the debts, liabilities or obligations of the Contractor and / or his employees.

QUALIFICATION REQUIREMENTS

QUALIFICATION REQUIREMENTS

- 01.00 a) The Bidder must have valid HT Electrical Contractor license issued by ELBO.
b) Bidder must have executed similar type of work earlier.
c) Bidder must declare its sub – contractors name, if any, who will execute the work. The contractor must be having labour license for at least 20 labours.
- 02.00 The Bidder should furnish the information on all past works and satisfactory performance.
- 03.00 All bids submitted shall also include the following information.
- i) Copies of original documents defining the constitution or legal status, place of registration and principal place of business of the Company or Firm or Partnership etc.
 - ii) The Bidder should furnish a brief write up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required materials within the specified time of completion after meeting all his current commitment.
 - iii) The Bidder should clearly confirm that all the facilities exist in the factory from the where materials to be procured for inspection and testing and theses will be made available to the Purchaser or his representative for inspection before any material dispatch to work site.
- 04.00 The Bidder shall furnish Type Test Reports for materials required at site. The Bids received without type test received without type test reports may be treated as Non-responsive.
- 05.00 Even though the Bidder meets the above qualifying criteria, he is subject to be disqualified if he has (i) Made misleading or false representation in the Statements and attachments submitted in proof of qualification requirements and / or (ii) record of poor performance such as not properly completing the contract, inordinate delays in supply completion, litigation history or financial failure etc.
- 06.00 Not withstanding anything stated above, the purchaser reserves the right to access bidder's capability and capacity to perform the contract.
- 07.00 Bidder participating, if not have facility to manufacture materials required for the work, must submit their vendors list from where they will procure the materials with their credential and annual turnover. While choosing vendors the bidder must ensure that vendor must have supplied the equivalent quantity of material in any one year during last three years.

Sd/-

Collector cum District Magistrate

Gajapati District

GENERAL CONDITION OF CONTRACT & TECHNICAL FIELD REQUIREMENT

• SCOPE OF WORKS

The scope of works include execution of **Turnkey Basis** with complete system design, procurement/manufacture, manufacture's quality assurance, shop testing (including type testing where specified/required), storage, erection, as elaborated below including all associated activities that though not exclusively specified here in but are required for the completion of the entire works under this package.

01.01 This specification intends to cover but not restrict to the following activities, services and works.

- i) Complete design and engineering of all the systems sub-systems equipment material and services
- ii) Providing engineering data, drawings and O&M manuals for Owner's review, approval and records.
- iii) Manufacturing, supply, testing packing transportation and insurance from the manufacture's work to the site.
- iv) Receipt, storage, insurance preservation and conservation of equipment at the site.
- v) All civil and structural works as required.
- vi) Fabrication, pre-assembly (if any) erection, testing and putting into satisfactory operation of all the equipment/material including successful commissioning.
- vii) In addition to the requirements indicated in this section (Technical Specifications) all the requirements as stated in other sections shall also be considered as a part of this-specification as if completely bound herewith.
- viii) The Bidder shall be responsible for providing all material, equipment and services specified or otherwise which are required to ensure operability, maintainability and the reliability of the complete work covered under this specification.
- ix) All services and activities required to be given contractually by the bidder during warranty.

01.02 The package envisages following works at different locations in Gajapati district in the State of Odisha.

- i) Survey, Pole Spotting for all HT & LT Lines and finalization of DT Location.
- ii) Construction of 11 KV & LT Lines
- iii) Construction of Distribution Transformer Sub-stations.
- iv) Service Connections to all BPL (Below Poverty Line) Consumers including inside wiring of two points & supply of 2 nos CTL's as per work order The contractor will collect service connection applications from the BPL consumers & submit the same to the local junior engineer electrical for giving service connections.

2.00 DETAILED SCOPE

02.01 Survey

The scope covers detailed route survey for all existing and proposed 11KV & LT lines, location of tap-off on existing feeders, pole spotting, optimization of pole location crossing of roads, rail track, rivers, distribution transformer station location etc. The survey shall, as a minimum, identify/cover the following.

02.02 Block wise maps shall be prepared on the background of Survey of India (SOI) map of 1:225000 scales indicating the following.

- i) Village boundaries and their respective census codes
- ii) Existing and proposed 33/11KV substations
- iii) Existing and proposed 11 KV lines and Distribution transformer Stations.

02.03 Village level map shall be created from the map with a scale of 1:5000 or better indicating the following.

- i) Village geographical features and landmarks with clear depiction and label
- ii) All the habitations that exist in the village
- iii) Existing & proposed HT & LT lines, DTs.
- iv) List of individual consumer fed from each pole.
- v) Estimated loading
- vi) All distance and locations of electrical system from key reference points.

03.00 Village / Hamlet Electrification

03.01 The list of villages / Habitation where the population is less than 100 Nos. and which are to be electrified under the scheme along with their census code, electrical scope will be provided separately. However the bidders shall verify the scope at site during field survey.

04.00 Construction of Line & Sub-station

04.01 New 11 KV line for village / habitation electrification:

Construction of 11 KV spur line from the existing from the existing or to be constructed lines for electrification of villages/habitation with a span length of 70 meters.

These lines shall emanate from existing lines and shall have provision of AB Switches of 400Amp rating at T-off points only where the spur line length exceeds 2 Km.

All damaged insulators cross arms and other line materials to be replaced.

Sd/-

Collector cum District Magistrate

Gajapati District

**GENERAL CONDITIONS OF
CONTRACT
&
TECHNICAL FIELD
REQUIREMENTS**

Aligning / re-erection of tilted / bend poles where found in the route of line along with strengthening of its foundation is in the scope of the bidder.

While reconductoring disconnection / Connection of the existing DT shall be in scope of the bidder

However, bidder is to assess the actual scope of re-conductoring of the 11 KV lines while carrying out the route survey.

05.00 Construction of Distribution Transformer Centers

Construction of Distribution Transformer Centers (DTC) using the type of transformers & configurations as given in the table below.

Sl. No	Type of DT	Voltage ratio (KV)	Rating (KVA)	Arrangement	No. of earthing
1	1 Phase	11/0.250	16	9 Mtr. 300 Kg. single pole mounted S/S with 2pole 200A AB switch & DO fuse	2 Nos.
2	3 Phase	11/0.433	25	9 Mtr 300 KV PSC Double pole structure with 3pole 200A AB switch & HG fuse	5 Nos.
3	3 Phase	11/0.433	63	9 Mtr 300 KV PSC Double pole structure with 3pole 200A AB switch & HG fuse	5 Nos.
4	3 Phase	11/0.433	100	9 Mtr 300 KV PSC Double pole structure with 3pole 200A AB switch & HG fuse	5 Nos.

05.01 The scope includes supply installation, testing and commissioning the following

- i) 3 Phase 25 KVA Distribution Transformers & 1-Phase 16 KVA D.T shall be fitted with L.A 11 KV line.
- ii) All structures cables, earthing and all other items, not specifically mentioned but necessary for safe operation of the distribution transformer is included in properly, duly clamped with poles for protection of cable.
- iii) LT Distribution Box with MCCB & Energy Meter on LT side of DT. The Distribution box shall have proper locking arrangement.

05.02 The contractor shall survey the area, fix the location of DT keeping in view that DT is as close as practically possible to the load centre of the area of be fed.

05.03 Contractor shall obtain the approval for final DT location from engineer in the field.

05.04 The no of LT feeders/service connections to be connected to a particular DT shall be decided during detailed engineering

05.05 For three phase DTs, Gang operated AB switches shall be mounted between 11KV line dropper & HG fuse.

06.00 Construction of LT Lines

Sl. No.	Type of line	Conductor	Support	Average span in mtr.
1	3-Phase 4-Wire	AB cable of size (3X35 mm ² +1X25) mm ² XLPE Insulation	8 Mtr. 200KG PSC	35 Mtr.
2	1-Phase 2-Wire	Aerial Bunched Cable (ABC) of size (1X35+1X25)mm ² .	8 Mtr. 200KG PSC	35 Mtr.

The LT lines shall be of following configurations

06.01 LT Lines using AB Cable shall be constructed on 8Mts 200KG PSC pole complete with eye hook, suspension / dead end clamp including bedding of clamps etc or by using cross arm and shackle insulator complete as required for supporting LT AB conductor, era thing arrangement, anti climbing device, danger board, stay sets as required, bolts nuts & washers and any other hardware required to complete the work, as finalized during detailed engineering.

07.00 Service Connections to BPL:

07.01 The scope includes providing service connections to the consumers Below Poverty Line (BPL consumers) including 2 points wiring and coil earthing to the installation. The service cable shall travel from service pole to the premises of the consumer with the provision of

- i) PVC insulated double core with outer sheath 2.5 sq. mm single strand Aluminum cable
- ii) UDC (Universal Distribution Connector) ABC cable with piercing type connector and distribution box at DT.
- iii) Supporting GI wire 10 SWG
- iv) Electro Static Energy meter at the consumer premises.
- v) Electro Static Energy mater at the Consumer Premises.
- vi) Providing 2 Nos. CFL Bulb (18W+11W- 1) No. each) lamp in the consumer premise.

07.02 L.T. consumer connection from service pole

The contractor shall provide the service connection to the identified households. The service connection shall be complete with energy meters with TP Box in consumer's premises. Service Connection shall be provided with PVC insulated 650/1100 V grade, twin Core Aluminum solid Conductors of size 2.5 sq. mm. (2/22 cu equivalent) these wires shall be supported by a bearer GI wire (3.15mm) as per REC Spec. No. 45/1986 Cable shall be tied to bearer wire with an insulated (Porcelain or Bakelite) ring of adequate size and strength. The bidder shall provide his own arrangements for anchoring the bearer wire at the premises of customers in case of BPL households.

07.03 Pole Top Distribution Box

Locations, where the numbers of consumers are in excess of 2 (say 3 to 5), a pole top LT distribution box shall be provided. If the number of consumers exceeds 5 then the connection has to be provided from adjacent pole having separate distribution box.

07.04 Piercing Connector

Wherever, the consumers for a particular pole are 1 or 2 piercing type connectors having provision for main conductor and service conductor of appropriate size for ABC & UDC for bare, conductor, shall be used UDC or wedge type connectors of suitable. Dimension / size as per REC specification, Cost of all items/material required to complete the service connections shall be included in the quoted price. The installation of all the material is in the scope of contractor.

As far as possible the service connection shall be given from the DT/pole of the LT line, which is nearest to the consumer's premise.

The service cable shall enter to the meter of the consumer premises through GI pipe will be fixed to the wall with suitable clamps. The supporting GI wire will be suitably tied to the GI pipe. Coil earthing is to be done with GI lead wire to main switch.

07.05 House wiring

For all the identified BPL households, the contractor shall carry out & complete works of house wiring with installation of energy meters.

ISI marked Double Pole 16Amp main switch shall be used.

ISI marked PVC conduit with single core 2.5 sq. mm aluminum wire shall be used for house wiring.

Two points wiring for lighting points shall include two piano type ISI marked 5A switch, Bakelite/plastic holder, 2Nos. CFL Lamp (18 W & 11W)

The wooden box shall be fixed in the consumer premises at a suitable height and shall house

- 16Amp DP Main Switch
- Earthing terminal
- One 5 Amp Switch
- One 18 W CFL bulb with holder.

Another wooden distribution board shall be fixed in the consumer premises at a suitable height and shall house.

- 5 Amp switch
- 11 Watt CFL lamp with holder.

The internal wiring shall be done using PVC conduits

The Electrostatic meter with TP Box will be fixed separately.

08.00 GENERAL REQUIREMENTS & INSTRUCTIONS.

- 08.01 Sub-stations of Transformers upgraded / installed or PSC poles installed and BPL households electrified under this scheme will be inscribed with the name of the scheme i.e. "Biju Gram Jyoti" and year of electrification in white paint in the back ground of deep green paint.
- 08.02 For HTs & LT line the scope covers detailed survey proposal for feeder bid dictation, pole spotting, optimization of pole location, pole design testing fabrication and supply of all type of transmission line poles including cross arms angles channels, braces, top brackets, stay sets, bolts, nuts and washers, D-shackle all types of insulators, and all type of pole accessories like, phase plate, number plate, danger plate, anti-climbing device, stay sets, Guarding arrangements, etc. design, selection of type of foundation supply and application of zinc rich paint, pole earthing, fixing of insulators, supply of conductors & accessories, stringing of conductors along with all necessary line accessories and testing and commissioning of sub-stations.
- 08.03 Bidder is required to follow statutory regulations stipulated in Electricity Act 2003, Indian telegraph act 1889, I.E. Act 1910, Electricity (Supply) Act 1948, Indian Electricity Rules 1956 with all amendments till date and other local rules and regulations referred in this specifications
- 08.04 Bidder shall obtain approvals & clearances and right of way from all agencies involved. All lines shall generally be routed through public land/ along the road.
- 08.05 The bidder shall be responsible for transportation to site of all the materials to be provided by the Contractor as well as proper storage and preservation of the same at his own cost, till such time the erected line is taken over by the Owner.
- 08.06 Failure of any equipment to meet the specified requirements of tests carried out at works or at site shall be sufficient cause for rejection of the equipment. Rejection of any equipment will not be held.
- 08.07 As a valid reason for delay in the completion of the works as per schedule. Contractor shall be responsible for removing all deficiencies, and supplying the equipment that meet the requirement.

ROUTE SURVEY

Successful bidder shall carry out detailed survey and prepare the detailed route of 33KV, 11KV & LT Lines, location of Distribution Transformer on topographical sheets/ mouja maps available from government agencies. The bidder shall make his own arrangements for obtaining the topographical maps/ mouja maps from the concerned agencies. The final route map for 33KV, 11 KV & LT lines, shall be prepared and submitted by the bidder, showing the proposed pole position, ground clearance, conductor sag and various crossings i.e. railway lines, communication lines shall be prepared and submitted by the bidder, showing the proposed pole position, ground clearance, conductor sag and various crossings i.e. railway lines, communication liens, EHT lines, rivers road and stream crossings on the map to a scale of 1:25000. All LT lines along with pole locations are to be marked on village/mouza maps / patwari maps to a scale 1:5000.

GENERAL CONSTRUCTIONAL PRACTICES (11KV)

The following types of poles shall be used at respective locations given below.

- SP (Single Pole support) 06-10 deviation
- DP (Double Pole support) 0-600 deviation
- FP (four Pole support) 600 – 90 deviation.

POLE SPOTTING

- **Span**

Average span of HT & LT lines with proposed conductors is given in the table below.

Sl. No.	Line Class	Support (Height in mtrs / KG)	Conductor Type	Nominal Conductor size in sq	Max. span in mtrs.
1	11KV 3Ph (for new line & spur line)	PSC (9/300)	AAAC	55mm ²	50
2	11KV 2Ph (for new line & spur line)	PSC (9/300)	AAAC	34mm ²	50
3	LT 3Ph 4W	PSC (8/200)	ABC	3X35+1x25	35
4	LT 1 Ph 2W	PSC (8/200)	ABC	1X35+1x25	35

(b) Road Crossing

At all major road crossings, the poles shall be fitted with strain type insulators but the ground clearance at roads under maximum temperature and in still air shall be such that even with conductor broken in adjacent span, ground clearance of the conductor from the road surfaces shall not be less than 6.1 meters.

(c) Power Line Crossings

Where the proposed lines require crossing over another line of the same voltage or lower voltage, provisions to prevent the possibility of its coming into contact with other overhead lines shall be made in accordance with the Indian Electricity Rules, 1956 as amended from time to time. All the works related to the above proposal shall be deemed to be included in the scope of the Contractor. Where existing lines of higher voltages are to be crossed under another line, the bidder shall take up suitable rerouting so as to obtain necessary sectional clearances, otherwise crossing through 11 KV cable shall be proposed.

(d) Telecommunication Line Crossings

The angle of crossing shall be an near to 90 degree as possible. However, deviation to the extent of 30 degree may be permitted under exceptionally difficult situations.

HT line shall be routed with requisite suppression with parallel telecom line to avoid inductance during faults.

(e) Clearance from Ground, Building, Trees etc.

All topographical details, permanent features, such as trees, telecommunication lines shall be provided in conformity with the Indian Electricity Rules, 1956 as amended upto date. The bidder shall select the height of the poles such that all electrical clearances are maintained 116x100 RS Joist shall be used for all road & drain crossings, if required. In case of exceptional terrain, 150x150 RTS Joist may be used with the approval of owner.

- The minimum planting depth of poles shall be governed by IS 1678. However, if due to the ground conditions, e.g. water logged area etc. depth of planting of poles shall be suitably increased the bidder will supply the poles of suitable height in order to maintain the required clearances the vendor will submit the details of the same on case to case basis.
- Guarding mesh shall be used in all electric line / telecom line / road / drain / canal crossing and at all points as per statutory requirements. The bidder shall provide & install anti climbing devices and danger plates on all poles and DT stations.

DESIGN PARAMETERS

- Factor of safety 2.0 in Normal condition for 33KV & 2.5 for 11 KV line & LT line PSC supports.
- Wind Pressure on Pole & conductor – As per IS 802.
- In addition to wind load on cross-arms insulators guy-wire etc. shall be considered.
- Wind load on full projected area of conductors and pole is to be considered for design.
- Ground clearance shall be minimum 5.2m for 33 KV line & 4.6 m for 11 KV line & LT line for bare conductor at locations other than road crossings.
- Ground clearance shall be as per IS : 5613 and shall be min. 330 mm for 33 KV line.

Pole accessories like danger plates, phase plates and number plates shall be provided.

POLES

Erection of Pole, PSC footing and compaction of soil.

Pits are to excavate to a size of 0.6 meter x 1.2 meter with its longer axis in the direction of the line. In case bidder employs Earth augers, the Pit size can be considered 0:6 meter dia with 1.5 meter depth.

For hard rock locations, 1 meter deep hole of diameter 20% in excess of the longest dimension of the bottom most portion of pole shall be excavated. The pole shall be grouted in the pit with 1:2:4 nominal concrete mix at the time of pole erection.

The planting depth of pole over the base precast concrete slab shall be 1500 mm in the ground except in wet soil where depth shall be increased by 0.2 mtr to 0.3 mtr with reduced wind span.

Earthing of Poles

In 11 KV & LT line each pole extension arrangement up to two meters shall be used at low ground level locations for maintaining ground clearance and for road crossings for HT & LT Lines. Extension of poles shall be by use of 100x50x6mm galvanize channel up to three meters. A overlap of one meter shall be maintained with the pole.

PROVIDING OF GUYS/STRUT POLES TO SUPPORTS

Strut poles flying guys wherever required shall be installed on various pole locations as per REC construction standards. For selection of guing locations REC guidelines & construction practices shall be followed.

The Stay rod should be placed in a position so that the angle of rod it the vertical face of the pit is 300/450 as the case may be.

G.I. stay wires of size 7/3.15 mm (10 SWG) with GI turn buckle rod of 16 mm dia& 16 mm dia GI stay rods, shall be used of 11KV & LT line

G.I. Stay wires of size 7/4 mm with GI turn buckle rod of 20 mm dia& 20 mm dia GL stay stayrods, shall be used for 33KV line.

For double pole structure (DP), four stays along the line, two in each direction and two stays along the bisection of the angle of deviation (or more) as required depending of the angle of deviation are to be provided. Hot dip galvanized stay sets are to be used.

The anchor plate shall be fixed to 200mm MS plate of 6mm thickness. M.S. rod with a bolt arrangement at one end and other end is given shape of 40mm dia circle to bind one end of the stay wire.

CROSS ARMS

Cross Arms for 11 KV Overhead Power Lines shall be made out of 75x40x6 mm M.S. channel. Cross Arms made out of M.S. angle shall not be used Cross arms shall conform to specification given under the head miscellaneous items in this specifications.

Crossings

All crossings shall be at right angles.

Guarding shall be provided at major crossings. The Guarding shall consists of GI guard cross arm of length 2.5 mtrs made to of 75x40x6 mm channel & shall be hot dipped galvanized generally conforming to IS : 2633/72. The clamps shall also be hot dipped galvanized generally conforming to IS : 2633/72. Guarding shall be erected with ground & line clearances as per the I.E. rules. The guarding shall be provided with GI wire * SWG for 11 KV & LT line & 4 SWG for 33 KV line. Binding wire & suitable I bolt & nut bolts for cross arm to cross arm Guard wire shall be separately earthed at both ends. Crossings the roads/canals or any other lines shall be as per the REC construction standard.

Anti – Climbing Devices

Anti Climbing Devices shall be provided with G.I. Barbed wire, they shall be provided and installed by the Contractor for all poles. The barbed wire shall conform to IS:278 (Grade . A1) The barbed wires shall be given chromatin dip as per procedure laid down in IS : 1340.

Painting Materials

All the metal parts except GI pars are to be painted with one coat of red oxide and one coat of aluminum paint.

STRINGING OF CONDUCTOR

The works include spreading of conductors or HT/LT AB cables without any damage and stringing with proper tension without any kinks /damage including binding of conductor at pin points umpiring at cut points etc. The ground & line clearances at road crossings along roads, LT crossings & other crossings shall be as per the relevant I.E. rules.

Sd/-

Collector cum District Magistrate

Gajapati District

PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

Bank Guarantee No.....

Date.....

1. In accordance with invitation to Bid No..... Dated..... of Collector & District Magistrate (herein after referred to as Collector) for the purpose of M/s..... Address..... wish / wishes to participate in the said tender and as the Bank Guarantee for the sum of Rs..... (Rupees..... only) valid for a period of days (in words) is required to be submitted by the tenderer. We the Bank (herein after referred to as the bank) at the request of M/s..... hereby unequivocally and unconditionally guarantee and undertake to pay during the above said period or written request by the Collector, an amount not exceeding Rs..... (Rupees..... only) to Collector without any reservation. The guarantee will remain valid up to of date..... (date) and if any further extension is required the same will be extended on receiving instruction from M/s..... on whose behalf this guarantee has been issued.
2. We, the Bank do hereby undertake to pay the amounts, due and payable under the guarantee without any demur, merely on a demand from the Collector stating that the amount claimed is due by way of loss or damage caused to or suffered by Collector by reason of any breach by the said contractor(s) of any of the terms or conditions contained in the said agreement or by the reason of any breach by the said contractors failure to perform the said Bid. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (in words).
3. We undertake to pay to the Collector any money so demanded notwithstanding any dispute or dispute raised by the contractor(s) / Supplier(s) in any suit or proceeding instituted / pending before any Court or Tribunal relating thereto our liability under this agreement being absolute and univocal. The payment made under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) / supplier(s) shall have no claim against us for making such payment.
4. We, the Bank our local Branch at (detail address & Code No. of local branch to be specified) further agree that the guarantee herein contain shall remain in full force and effect during the period 240 days (two hundred and forty days) and it shall continue to do so enforceable till all the dues of the Collector under by the virtue of the said Bid have been fully paid and its claims satisfied or discharged or till Collector certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said contractor(s) and accordingly discharge this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all liabilities under this guarantee thereafter.
5. We, the Bank our local Branch at further agree that Collector shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary and of terms and conditions of the said Bid or to extend time of performance by the said contractor(s) from time to time to postpone for any time or from time to time any of the powers exercisable by Collector against the said contractor(s) and to forebear or enforce any of terms and conditions relating to the said Bid and we shall not be relieved from our liability by reason of any such variation postponement or extension being granted by the contractor(s) or for any forbearance act of omission on part of Collector to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties should but for this provisions have effect of so relieving us.
6. The guarantee will not be discharged due to change in the name, style and constitution of the Bank and contractor(s).
7. We, the Bank our local Branch at lastly undertake not to revoke this guarantee during its currency except with the previous consent of Collector in writing.

Dated..... Day of 200.....

Witness :-

For

(indicating name of the Bank with seal)

PROFORMA OF BANK GUARANTEE FOR PERFORMANCE GUARANTEE

(To be stamped in accordance with Stamp Act.)

Bank Guarantee No.

Date

This Guarantee Bond is executed this Day 200 by us the

Bank

at

P.O.

P.S.

Dist.

State

Whereas the Collector & District Magistrate, (hereinafter called "Collector") has placed Order No. Dt. (herein after called "the Agreement") with M/s. (herein after called "Contractor") for Electrification of villages / hamlets under Biju Gram Jyoti Scheme on Turnkey basis and whereas Collector has agreed to exempt from depositing of performance guarantee amount on furnishing by the Contractor to the Collector a Bank Guarantee of the value of 10% (Ten percent) of the Contract price valid for 18 months from the date of completion of work of the said Agreement.

1. Now, therefore, in consideration of the Collector having agreed to exempt from deposit of performance guarantee amount in terms of the said Agreement as aforesaid, we the Bank,

Address..... (code No.

.....) (herein after referred to as "the Bank") do hereby undertake to pay to the

Collector an amount not exceeding Rs.....

(Rupees.....)

only against any loss or damage caused to or suffered by the Collector by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We, the Bank do hereby undertake to pay the amounts due and payable under the guarantee without any demur, merely on a demand from the Collector stating that the amount claimed is due by way of loss or damage caused to or suffered by Collector by reason of any breach by the said Contractor (s) of any of the terms or conditions contained in the said Agreement or by the reason of any breach by the said Contractor's failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....) only.

3. We, the Bank also undertake to pay to the Collector any money so demanded not withstanding any dispute or dispute raised by the Contractor (s) in any suit or proceeding instituted / pending before any court or Tribunal relating thereto our liability under this Agreement being absolute and unrecoverable.

The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We, the Bank further agree that the guarantee herein contain shall remain in full force and affect during the period that would be taken for the performance of this said Agreement and it shall continue to remain in force endorsable till all the dues of the Collector under by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till Collector certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharge this guarantee and will not be revoked by us during the validity of the guarantee period.

~~Unless a demand or claim under this guarantee is made on us or with~~

..... (Local Bank Name, Address and code

No.)..... in writing on or

before..... (date) we shall be discharged from all liability under this

guarantee thereafter.

V.P (197)

5. We, the Bank further agree that the Collector shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend the time of performance by the said Contractor(s) and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance act or omission on part of the Collector or any indulgence by the Collector to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us.

6. The Guarantee will not be discharged due to change in the name, style and constitution of the Bank and or Contractor(s).

7. We, the Bank lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Collector in writing.

Dated..... The Days of Two thousand

Notwithstanding anything contained herein above.

- i) Our liability under this Bank Guarantee shall not exceed Rs. (Rupees.....) only.
- ii) The Bank Guarantee shall be valid up to only.
- iii) We or our Bank at (Name & Address of the Local Bank,) are liable to pay the guaranteed amount depending on the filling of claim and any part thereof under this Bank Guarantee only if you serve upon us or our local Bank at a written claim or demand and received by us or by Local Branch at on or before, Dt..... otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

For.....

(indicate the name of the Bank)

N.B.:-

- 1) Name of the Contractor:
- 2) No. & date of the purchaser order / agreement:
- 3) Name of the Bank:
- 4) Amount of the Bank Guarantee:
- 5) Name, Address and Code No. of the Local Branch:
- 6) Validity period or date upto which the agreement is valid:
- 7) Signature of the Constituent Authority of the Bank with seal:
- 8) Name & address of the Witnesses with signature:
- 9) The Bank Guarantee shall be accepted only after getting confirmation from the respective Bank