

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD



Office of the Dy.Executive Engineer
Thana Road, Goregaon. Dist.: Gondia.
Ph.07187-232441.

Email: sdo4810@ho.mahadiscom.in Website: www.mahadiscom.in

DYEE/GRG/Tech/ 1642

Date: 31/12/2021

To,
M/S Borkanhar Farmer Producer Co.Ltd.
G.No.302/1 at vlg Goregaon
Tal-Goregaon

Subject: Regarding your application for providing Industrial electrical connection of load 70KW at above mentioned address


Reference: Your application on dt. 24.12.2021

With reference to above subject, this office has received your application for providing Industrial electrical connection of load 70KW in the n/o M/S Borkanhar Farmer Producer Co.Ltd. on G.No.302/1 at vlg Goregaon, Tal-Goregaon. Considering the application, survey has been carried out by Assistant Engineer Goregaon on dt.27.12.2021. As per technical feasibility report, consumer requires Infrastructure of DTC-100KVA and HT line-0.05km for releasing an electrical connection in the premises mentioned above. The cost of the estimate calculated is approx. Rs.365304/-.

Kindly note that connection will be released only after submission of proper documents and after the approval of final estimate from higher authority considering technical feasibility.

This is for your information please.

Enclosure: Summary report


Dy. Executive Engineer
M.S.E.D.C.L O&M
Goregaon SubDivision

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
DIVISION, GONDIA.

Estt. For 1no of IP CONNECTION in r/o BORKANHAR FARMER PRODUCER
COMPANY LTD ,GAT NO-302/1 GOREGAON,VILLAGE GOREGAON,under goregaon
section of Goregaon S/Dn.

Abstract Sheet

Sr. No.	Description of Material	Unit	Qty.	Amount
1	DTC 100KVA	No	1	295190.00
2	11 KV Line	Km.	0.05	70114.46
3	33KV UNDERGROUND cable	Km.		
4	DIPRECIATION			
5	LABOUR CHARGES			
Total ==>				365304.46
Grand Total ==>				Rs.365,304.46


Assistant Engineer
goregaon section office
Gondia
Assistant Engineer
M.S.E.D.C.L.
Section Office, Goregaon


DY. EXECUTIVE ENGINEER,
GOREGAON S/DN,
GONDIA.

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
DIVISION, GONDIA.

SUMMARY REPORT

No. AE/gor-1/tech	DATE:-				
1 Name of Estimate	:- Estt. For 1no of IP CONNECTION in r/o BORKANHAR FARMER PRODUCER COMPANY LTD ,GAT NO-302/1 GOREGAON,VILLAGE GOREGAON,under goregaon section of Goregaon S/Dn.				
2 Provision	:- Distribution Transformer	=		KVA	proposed
	11KV Line	=	0.05	KM	proposed
	L.T SERVICE CABLE	=		METER (3ph 4 w)	proposed
3 Amount	:- Rs.365,304				
4 Supports	:- RSJ Pole 11 Mtr Long	=	1	Nos	
	stud pole RSJ	=			
	116x100, 9 m long	=	0	Nos	
	RSJ Pole 9 Mtr Long	=		Nos	
	PSC Poles 8 M long	=	0	Nos	
	PSC Poles 9 M long	=	0	Nos	
5 Conductor	:- ACSR 100 sqmm Dog conductor for 11 KV Line	=		0.15	km Line
	AAC Ant Conductor for phase - LT Line	=			km Line
	AAC Gnat Conductor for neutral - LT Line	=			km
6 Transformer proposed	:- 11 / 0.4 KV		100	KVA	
7 Load On Transformer	:- Existing	=		nil	
	Proposed	=		70KW	
7 Scheme	:- ANY SUITABLE SCHEME				
8 Voltage Regulation	:- 0.69 i.e with in limit				
9 Sanctioning Authority	:- Executive Engineer, O & M Division, Gondia.				
10 Remarks	:- NO construction found at-site & machine rooms				

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**Estt. For 1no of IP CONNECTION in r/o BORKANHAR FARMER PRODUCER
COMPANY LTD ,GAT NO-302/1 GOREGAON,VILLAGE GOREGAON,under goregaon
section of Goregaon S/Dn.**

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Gondia**

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O & M DIVISION, GONDIA**

Estt. For Ino of IP CONNECTION in r/o BORKANHAR FARMER PRODUCER COMPANY LTD ,GAT NO-302/1 GOREGAON,VILLAGE GOREGAON,under goregaon section of Goregaon S/Dn.

Sr. No.	L.T.A.B.Cable DESCRIPTION OF MATERIALS.	0.02 UNIT	Km QTY	COST DATA -2019-20	
				Rate/Unit Rs.	Amount Rs.
1	RSJ 125x70, 9 m long	No		5268.00	
2	RSJ 116x100, 8 m long	No.		8226.00	
3	PSC Pole 8 Mtr (200 KG)	No.	1	1980.00	1980.00
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	20	329.00	6580.00
5	L.T.Aerial bunched cable(3x120+1x16+1x70)	Rmt		260.000	
6	L.T.Aerial bunched cable(3x70+1x16+1x50)	Rmt		168.000	
7	AB Suspension clamp assembly.	Pairs		396	
8	AB Dead clamp assembly	Nos		550	
9	Piercing connector for network	no.		187	
10	Piercing connector for service box	no.		187	
11	service conn. Junction box 9 way	no		4400.00	
12	Earthing Sets L.T.	No	1	166.00	166.00
13	L.T. Stay sets	No	1	472.00	472.00
14	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	10	57.45	574.50
15	Stay Insulators	No	1	10.00	10.00
16	Binding Wire	Kg.		70.00	
17	Binding Tape	Kg		43.00	
18	G.I.Wire 8 SWG/ 6 SWG	Kg.		57.40	
19	Concreting ration 1:3:6	Cmt	1	3027.00	3027.00
20	L.T.Spacers	No		110.00	
21	Sundries such as N/B, Washers, Welding etc.	LS	1	2900.00	2900.00
	COST OF MATERIAL				15709.50
1	Errection on Material	15%			2356.43
	GRAND TOTAL ==>				18065.93
1	Contigencies on Materials	3%			87.00
2	T & P on Material	1.50%			43.50
3	Contractor Supervision, High Level Testing & Commissioning charges on material	5.00%			145.00
	Sub-Total = I				18341.43
7	Contractor Profit on Total Project Cost ie on Sub Total - I	5%			917.07
	Sub-Total = II				19258.50
8	Price Escalation on Material Cost	5%			145.00
	Sub-Total -III				19403.50
9	H.O.supervision charges i.e. 15% on errection of material	1.50%			2356.43
	Sub-Total -IV				21759.92
10	Interest during Construction Period (on total project cost) i.e. on Sub-Total-IV	2.50%			544.00
	GRAND TOTAL ==>				22303.92

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O & M DIVISION, GONDIA**

Estt. For Ino of IP CONNECTION in r/o BORKANHAR FARMER PRODUCER COMPANY LTD ,GAT NO-302/1
GOREGAON,VILLAGE GOREGAON,under goregaon section of Goregaon S/Dn.

Length of 11 KV Line 0.10 Km

Sr.N	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	1	18245	18245
2	stud pole RSJ 116x100, 9 m long	No.		10283	
3	MS Channel 100x50x6 mm	Kg.	40	51.8	2072
4	M.S.Channel 75x40x6 mm	Kg.	20	51.8	1036
5	11 KV Top Fitting	No.	1	382	382
6	MS angle 50x50x6 mm	Kg.	40	51.8	2072
7	M.S. Flats(50 X 10mm)	Kg.	30	48.5	1455
8	11 kV Pin Insulators with G.I. Pins	No.	3	541	1623
9	Disc Insulator 11 KV 7000 KG.	No.	3	344	1032
10	G.I.Nut Bolts	Kg.	10	82.9	829
11	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322	966
12	AAAC 100 mm2	Mtrs.	150	51.82	7773
13	H.T.Stay Set	No.	1	598	598
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	57.45	574.5
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	10	57.4	574
16	Sleeve Joints	No.		115	
17	Danger Board in yard.	No.	1	50	50
18	Earthing Sets H.T	No.	1	342	342
19	Concreting ration 1:3:6	cmt.	1	3027	3027
20	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
21	Black bituminus paint	Ltr.	5	85	425
22	Red Oxide Paint for 2 coats	Ltr.	5	85	425
23	Aluminium Paint for 1 coat	Ltr.	5	113	565
24	Sundries	LS	1	810	810
25	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	6	559	3354
26	11KV V-cross arm	No	1	906	906
	TOTAL ==>	Sub-Total A			49264.04
1	Errection on Material	10%			4926.40
2	Transportation on Material	5%			2463.20
3	Service Tax @ (10.3% On 1+2+3)	1.55%			763.59
4	Contigencies on Materials	3%			1477.92
5	T & P on Material	1.50%			738.96
6	Contractor Supervision, High Level Testing & Commissioning charges on material	5.00%			2463.20
	Sub-Total = I				62097.32
7	Contractor Profit on Total Project Cost ie on Sub Total - I	5%			3,104.87
	Sub-Total = II				65202.19
8	Price Escalation on Material Cost	5%			2463.20
	Sub-Total -III				67665.39
9	H.O.supervision charges i.e. 15% on errection of material	1.50%			738.96
	Sub-Total -IV				68404.35
10	Interest during Construction Period (on total project cost) i.e. on Sub-Total-IV	2.50%			1710.11
	GRAND TOTAL ==>				70114.46

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O & M DIVISION, GONDIA

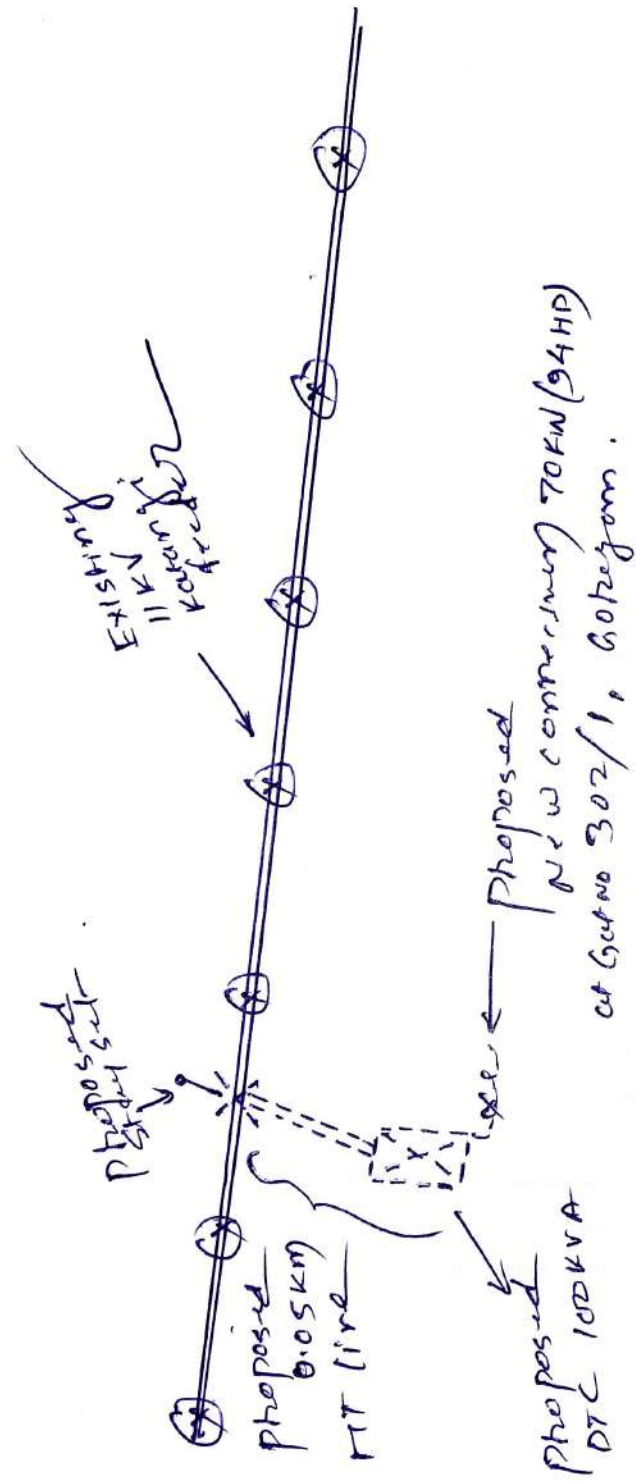
Estt. For Ino of IP CONNECTION in r/o BORKANHAR FARMER PRODUCER COMPANY LTD ,GAT NO-302/1 GOREGAON,VILLAGE GOREGAON,under goregaon section of Goregaon S/Dn.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	112770.00	112770.00
2	RSJ 116x100, 9 m long	No	2	9021.79	18043.59
3	MS Channel 100x50x6 mm	Kg.	100	50.79	5078.58
4	M.S.Channel 75x40x6 mm	kg.	44	50.79	2234.57
5	MS angle 50x50x6 mm	kg.	22	50.79	1117.29
6	M.S.Flat 50 x 6 mm	kg.	24	48.21	1156.94
7	11 kV Pin Insulators with G.I. Pins	NO.	3	148.00	444.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	382.89	1148.66
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	25542.62	25542.62
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1203.80	1203.80
11	H.T.Stay Set	No	4	586.83	2347.31
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.33	1408.23
13	Earthing Sets H.T	No.	3	335.61	1006.82
14	11KV H.G.Fuses	Set.	1	1964.17	1964.17
	11KV A.B. Switch	No.	1	9890.24	9890.24
15	Danger Board in yard.	No.	2	53.90	107.80
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.28	1407.03
17	G.I.Barbed Wire 'A' type.	kg.	15	69.40	1041.04
18	Concreting ration 1:4:8	CMT.	2	2861.30	5722.60
19	Painting/Hardware & support with numbering of pole	L.S.	1	242.00	242.00
20	Sundries	L.S.	1	847.00	847.00
21	DTC Metring with Box, single core L.T. XLPE cable (120 sq.mm)	No.	1	19647.70	19647.70
		Sub-Total A			214371.98
1	Errection on Material	10%			21437.20
2	Transportation on Material	5%			10718.60
3	Service Tax @ (10.3% On 1+2+3)	1.55%			3322.77
4	Contigencies on Materials	3%			6431.16
5	T & P on Material	1.50%			3215.58
6	Contractor Supervision, High Level Testing & Commissioning charges on material	5.00%			10718.60
	Sub-Total = I				270215.88
7	Contractor Profit on Total Project Cost ie on Sub Total - I	5%			13,510.79
	Sub-Total = II				283726.67
8	Price Escalation on Material Cost	5%			10718.60
	Sub-Total -III				294445.27
9	H.O.supervision charges i.e. 15% on errection of material	1.50%			3215.58
	Sub-Total -IV				297660.85
10	Interest during Construction Period (on total project cost) i.e. on Sub-Total-IV	2.50%			7441.52
	GRAND TOTAL ==>				295190.00

Assistant Engineer
goregaon section office
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DY.EXECUTIVE ENGINEER,
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Estt for 1 No of IP connection in D/O Borkanher former producer company Ltd,
 Gat No - 302/1, Goktegm, village Goktegm under Goktegm section of Goktegm
 S/dn.



INDEX

- X → Proposed HT pole
- → Proposed HT line
- Proposed DTC
- ℓ → Proposed LT line
- X → Proposed LT pole
- ! → Proposed stay set
- Existing HT line

Voltage Regulation



$$\% V.R = 0.3687 [0.02 \times 94]$$

$$= 0.69 \% \text{ i.e. within limit}$$