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MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED

MSEDCL OPERATION & MAINTENANCE SECTION OFFICE- MUKHED SECTION

E-mail:-sdo2496@ho.mahadiscom.in,

JE/MUKHED/R/E/TS/NO:

DATE: / /2022

To,  
The Dy.Executive Engineer,  
O & M Sub.Division, Mukhed,

SUB: Proposed Technical Estimate for New DTC AT NARNALI under DPDC Scheme

REF:

With reference to above subject, Please find enclosed here with the submitting of following Tech.Estimate proposed under DPDC Scheme At Village NARNALI Section Office Mukhed Rural Under mukhed Sub Division.

Name of Consumers

Sr.No.	Name of Consumers	VILLAGE	REMARK
1	RAJE MLHARARAO HOLKAR AGRO.PRODUCER COM.LTD.	NARNALI	

The Estimate consists of the following works

SR NO	RASTRUCTURE	POLE/DT	QTY.	UNIT	Estimate Amount
1)	H.T. LINE		43	2.15 km	82685.17
2)	L.T. LINE 3 PH 5 W		2	0.10 km	31413.63
3)	TRANSFORMER CENTRE		1	1*100 KVA	259905.3203
4)	Tapping Structure		1	1.00 NO	34021.51
	TOTAL				408025.63

This is submitted for your information and further needful aciton please.

ASSISTANT ENGINEER  
MSEDCL MUKHED SECTION

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**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.**

O & M DIVISION DEGLOOR, SUB DIVISION MUKHED

**SECTION OFFICE MUKHED URBAN**

INFRASTRUCTURE (ITEM WISE ESTIMATE FOR NEW/ADD. DTC)

TRANSFORMER NEW/ADD. TO AT VILLAGE NARNALI

Item Code No. 0908

Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 100x116 mm 9 mtr PSC poles

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	4.00	2260.00	9040.00
2	11 kv guarding channel MS 75x40	Kg.	23.11	51.80	1197.16
3	M.S.Channel 75x40x6 mm	Kg.	27.11	51.80	1404.36
4	MS angle 50x50x6 mm	Kg.	16.00	51.80	828.80
5	11 KV V cross arm with clamp	No.	2.67	639.00	1704.00
6	11 KV Top fitting with clamp	No.	2.67	91.00	242.67
7	M.S. Flats(50 X 10mm)	Kg.	8.67	48.50	420.33
8	11 kv Pin Insulators with G.I. Pins	No.	9.33	135.00	1260.00
9	Disc Insulator 11 KV 70 KN	No.	5.33	344.00	1834.67
10	Strain Hardware for 55 Sq.mm AAAC	Set	5.33	140.00	746.67
11	AAAC 55 mm2	Rmt	700.00	28.56	19992.00
12	Sleve Joints	No.	0.67	115.00	76.67
13	H.T.Stay Set	Set	1.78	598.00	1063.11
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	17.78	57.45	1021.33
15	Earthing Sets H.T	Set	4.00	342.00	1368.00
16	G.I.Barbed Wire 'A' type.	Kg.	15.78	64.27	1014.04
17	Danger Board in yard.	No.	4.00	50.00	200.00
18	Concreting ration 1:3:6	Cmt.	4.00	3027.00	12108.00
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	28.89	57.40	1658.22
20	Black Bituminus Paint	Ltr.	1.33	85.00	113.33
21	Red Oxide Paint for 2 coats	Ltr.	4.44	85.00	377.78
22	Aluminium Paint for 1 coat	Ltr.	2.00	113.00	226.00
23	G.I.Nut Bolts	Kg.	20.00	82.90	1658.00
24	Sundries	LS	0.22	810.00	180.00
25	Wedge connectors		0.00	0.00	0.00
a)	RABIT To RABIT or equivalent AAAC	No	5.33	114.00	608.00
					<b>60343.13</b>

**Cost of material**

1	Transportation on material	4.00%	2413.73
2	T&P on material cost	1.00%	603.43
3	Contigencies on material	2.50%	1508.58
5	Erection cost on material	15.00%	9051.47
6	Contractor supervision charges on material	5.00%	3017.16
7	Insurance , Labour & Finance Cost	3.00%	1810.29
			<b>18404.65</b>

**Service Cost**

**Sub-Total**

8	Turnkey Charges	5.00%	3937.39
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**82685.17**


**Total**

Particulars	DPR
	<b>74.02%</b>
<b>Cost with overheads on Material</b>	143889
<b>Total Cost of the Estimate</b>	143889

**Assumption:**

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)

JUNIOR ENGINEER  
MSDCL MUKHED

  
DY.EXECUTIVE ENGINEER  
MSDCL SDN. MUKHED

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**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.**

O & M DIVISION DEGLOR, SUB DIVISION MUKHED

**SECTION OFFICE MUKHED URBAN**

INFRASTRUCTURE (ITEM WISE ESTIMATE FOR NEW/ADD. DTC)

TRANSFORMER NEW/ADD. TO AT VILLAGE

NARNALI

Item Code No.1425

3 phase 5 wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC pole, 8 mtr., 200 Kg

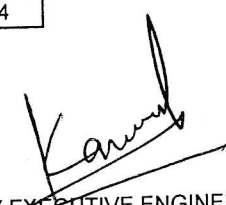
Sr. No.	DESCRIPTION OF MATERIALS.	UNIT	QTY	Rate/Unit	Amount Rs.
1	PSC Pole 8 Mtr (200 KG)	No	2.00	1980.00	3960.00
2	AAAC 55 mm2	Rmt	310.00	28.56	8853.60
3	ACSR Weasel	Rmt	210.00	18.50	3885.00
4	MS angle 50x50x6 mm	Kg	15.00	51.80	777.00
5	M.S. Flats(50 X 10mm)	Kg	4.00	48.50	194.00
6	L.T.Shackle Insulator	No	9.60	10.00	96.00
7	Aluminium Bobbins for neutral	No.	2.40	32.00	76.80
8	L.T.Shackle hardware	Pair	12.00	37.00	444.00
9	Jointing Sleeves for AAC	No	0.50	32.00	16.00
10	PG Clamp	No	0.60	27.00	16.20
11	Earthing Sets L.T.	Set	0.50	166.00	83.00
12	L.T. Stay sets	Set	0.80	472.00	377.60
13	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	10.00	57.45	574.50
14	Stay Insulators	No	0.80	10.00	8.00
15	Binding Wire	Kg	0.18	70.00	12.60
16	Binding Tape	Kg	0.18	43.00	7.74
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	10.00	57.40	574.00
18	Red Oxide Paint for 2 coats	Ltr	2.50	85.00	212.50
19	L.T.Spacers	No	7.60	110.00	836.00
20	G.I.Nut Bolts	Kg	5.70	82.90	472.53
21	Wedge connectors		0.00		0.00
	a) Ant To Ant or equivalent AAAC	No	3.20	114.00	364.80
	b) GNAT To GNAT or equivalent AAAC	No	2.40	114.00	273.60
21	Sundries	LS	1.00	810.00	810.00
	<b>Cost of Material</b>				<b>22925.47</b>

1	Transportation on material	4.00%	917.02
2	T&P on material cost	1.00%	229.25
3	Contingencies on material	2.50%	573.14
5	Erection cost on material	15.00%	3438.82
6	Contractor supervision charges on material	5.00%	1146.27
7	Insurance , Labour & Finance Cost	3.00%	687.76
	<b>Service Cost</b>		<b>6992.27</b>
	<b>Sub-Total</b>		<b>29917.74</b>
8	Turnkey Charges	5.00%	1495.89

**31413.63**

Particulars	DPR	Tender/
	74.02%	37.025%
<b>Cost with overheads on Material</b>	39895	31414
<b>Total Cost of the Estimate</b>	39895	31414

JUNIOR ENGINEER  
MSEDCL MUKHED RURAL

  
D.Y. EXECUTIVE ENGINEER  
MSEDCL SDN. MUKHED

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**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.**

O & M DIVISION DEGLOR, SUB DIVISION MUKHED

**SECTION OFFICE MUKHED URBAN**

INFRASTRUCTURE (ITEM WISE ESTIMATE FOR NEW/ADD. DTC)

TRANSFORMER NEW/ADD. TO AT VILLAGE NARNALI

Item code No. 0923


SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON RSJ 9 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	1	9254.00	9254.00
2	M.S.Channel 75x40x6 mm	Kg.	40	51.80	2072.00
3	MS angle 50x50x6 mm	Kg.	25	51.80	1295.00
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	322.00	1932.00
5	Disc Insulator 11 KV 70 KN	No.	6	344.00	2064.00
6	H.T.Stay Set	No.	2	598.00	1196.00
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	57.45	746.85
8	Earthing Sets H.T	No.	1	342.00	342.00
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	57.40	114.80
10	G.I.Barbed Wire 'A' type.	Kg.	2	64.27	128.54
11	Danger Board in yard.	No.	1	50.00	50.00
12	Black Bituminus Paint	Ltr.	0.5	85.00	42.50
13	Red Oxide Paint for 2 coats	Ltr.	1.5	85.00	127.50
14	Aluminium Paint for 1 coat	Ltr.	1	113.00	113.00
15	Concreting ration 1:3:6	Cmt.	1.5	3027.00	4540.50
16	Sundries	LS	1	810.00	810.00
					<b>24828.69</b>

**Cost of material**

1	Transportation on material	4.00%	993.15
2	T&P on material cost	1.00%	248.29
3	Contingencies on material	2.50%	620.72
5	Erection cost on material	15.00%	3724.30
6	Contractor supervision charges on material	5.00%	1241.43
7	Insurance , Labour & Finance Cost	3.00%	744.86
<b>Service Cost</b>			<b>7572.75</b>
<b>Sub-Total</b>			<b>32401.44</b>
8	Turnkey Charges	5.00%	1620.07
<b>Total</b>			<b>34021.51</b>

Particulars	DPR Amount	Tender/
		74.02%
<b>Cost with overheads on Material</b>	43207	34022
<b>Total Cost of the Estimate</b>	43207	34022

JUNIOR ENGINEER  
MSEDCL MUKHED RURAL

  
DY. EXECUTIVE ENGINEER  
MSEDCL SDN. MUKHED

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**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LTD.**

O & M DIVISION DEGLOOR, SUB DIVISION MUKHED

**SECTION OFFICE MUKHED URBAN**

INFRASTRUCTURE (ITEM WISE ESTIMATE FOR NEW/ADD. DTC)

TRANSFORMER NEW/ADD. TO AT VILLAGE NARNALI

Item Code No. 1203

POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 11/0.433 KV ON 9 mtr RSJ POLE					
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	9254.00	18508.00
3	MS Channel 100x50x6 mm	Kg.	100	51.80	5180.00
4	M.S.Channel 75x40x6 mm	kg.	44	51.80	2279.20
5	MS angle 50x50x6 mm	kg.	22	51.80	1139.60
6	M.S.Flat 50 x 6 mm	kg.	24	48.50	1164.00
7	11 kv Pin Insulators with G.I. Pins	NO.	3	135.00	405.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	322.00	966.00
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	12822.00	12822.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1268.00	1268.00
11	H.T.Stay Set	No	4	598.00	2392.00
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	57.45	1436.25
13	Earthing Sets H.T	No.	3	342.00	1026.00
14	11KV H.G.Fuses	Set.	1	1964.00	1964.00
	11KV A.B. Switch, 400 A	No.	1	9240.00	9240.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	57.40	1435.00
17	G.I.Barbed Wire 'A' type.	kg.	15	64.27	964.05
18	Concreting ration 1:3:6	CMT.	2	3027.00	6054.00
19	Painting/Hardware & support with numbering of pole	L.S.	1	225.00	225.00
20	Sundries	L.S.	1	810.00	810.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq mm, 120 mtr length) and other allied material	No.	1	7529.20	7529.20
					<b>189677.30</b>

**Cost of material**

1	Transportation on material	4.00%	7587
2	T&P on material cost	1.00%	1897
3	Contingencies on material	2.50%	4742
5	Erection cost on material	15.00%	28452
6	Contractor supervision charges on material	5.00%	9484
7	Insurance, Labour & Finance Cost	3.00%	5690
	<b>Service Cost</b>		<b>57852</b>
	<b>Sub-Total</b>		<b>247529</b>
8	Turnkey Charges	5.00%	12376
			<b>259905</b>

Particulars	DPR	Tender/
	Amount	Estimate
Cost with overheads on Material	74.02%	37.025%
Total Cost of the Estimate	330076	259905

#REF!

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MSEDCL MUKHED RURAL

*[Signature]*  
DY.EXECUTIVE ENGINEER  
MSEDCL SDN MUKHED