

**OFFICE OF CHIEF ENGINEER [Testing & QC]**

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

PRAKASHGAD, 5TH FLR, Dr. Anant Kanekar Rd, BANDRA (E), MUMABI-51

Website: www.mahadiscom.in EMAIL: - cetesting2@gmail.com

TEL:-(P)26478252,(O)26474211 EXTN-2207

(A Government of Maharashtra Undertaking)

(CIN: - U40109MH2005SGC153645)



CE(Testing & QC)/MSC-II/PSC Pole/Manchukonda

No 1 1 7 3 1

Date: 19 APR 2024

To,
M/s Manchukonda Prakasham Industries India Pvt Ltd
At S No.426 & 427, NH # 211, Solapur-Tuljapur road,
Kasegaon, South Solapur,
Dist Solapur.- 413004.

Sub: Vendor approval to M/s Manchukonda Prakasham Industries India Pvt Ltd, Solapur for supply of PSC Pole 8RMT/140Kg, 8RMT/200Kg & 9RMT/200Kg under on-going schemes in MSEDCL.

- Ref-** 1) M/s Manchukonda Prakasham Industries India Pvt Ltd, Solapur proposal to this office Dt.26.02.2024
2) Approved Office Note F-2024002200/2024 by CE Civil on Dt 05.04.2024
3) CE/Testing/TTR-validity/Circular/10 Dt. 22.06.2020.
4) Approval from Competent Authority F-2024004011/2024 Dt.10.04.2024 approved on Dt.18.4.24.

Sir,

This is to formally notify you that your recent proposal submitted has been reviewed by this office and this office is pleased to grant vendor approval for the supply of PSC Pole (8RMT/140Kg, 8RMT/200Kg & 9RMT/200Kg) for use in ongoing schemes under MSEDCL.

Please ensure that all PSC Poles (8RMT/140Kg, 8RMT/200Kg & 9RMT/200Kg) supplied adhere strictly to the specified technical requirements and relevant IS standards. Additionally, maintain consistency in design and construction parameters of the PSC Poles intended for MSEDCL ongoing schemes, strictly adhering to approved Guaranteed Technical Particulars (GTPs) and Drawings.

Moreover, the approval of Guaranteed Technical Particulars (GTPs), Drawings, and test reports does not absolve you of responsibilities and liabilities regarding the accuracy of the drawings and their correct interpretation to fulfill the requirements outlined in the tender technical specifications and IS specifications.

The testing of PSC poles must adhere to the provisions outlined in the relevant IS codes and should be conducted by the appropriate Civil Authorities prior to the lifting of the poles from the pole factory.

This vendor approval remains valid for duration of TWO year i.e.18.04.2026.

Please note that this letter is issued without prejudice to all other terms and conditions specified in the tender.

Thank you.

Encl :- As above

Yours faithfully,


Chief Engineer (Testing & QC)
MSEDCL, MUMBAI.

Copy s.w.r.to:

- 1) The Director (Operations)/(Projects), MSEDCL, Mumbai.
- 2) The Executive Director-II(Dist.)/(Infra)/(Projects), MSEDCL, Mumbai.

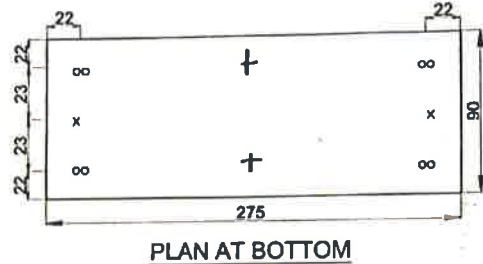
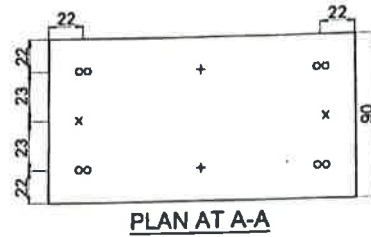
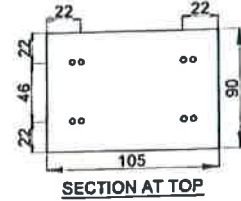
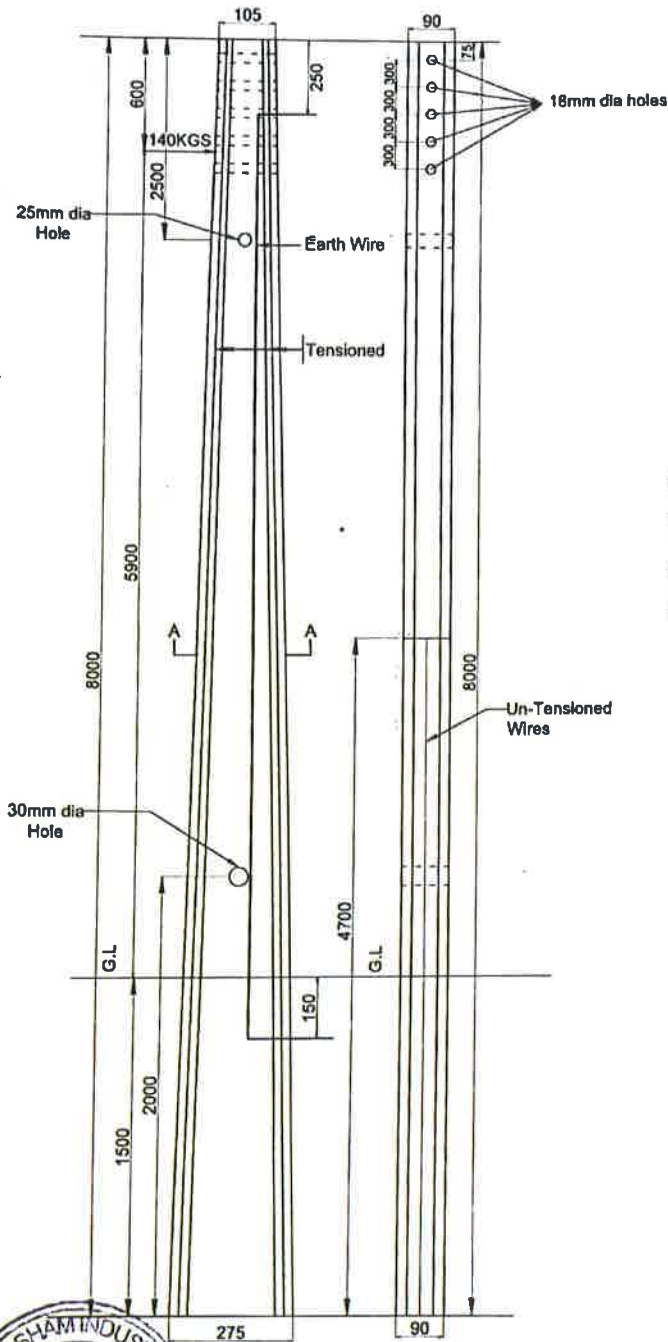
Copy f.w.c. to:

- 1) The Chief Engineer (O&M), MSEDCL, All Zones.
- 2) The Chief Engineer (MMC)/(HVDS)/(Projects)/(Dist.), MSEDCL, Mumbai.

Copy to:

- 1) The Superintending Engineer (O&M), MSEDCL, All Circles.
- 2) The Superintending Engineer (Infra)/(MSC), MSEDCL, Mumbai.

REINFORCEMENT DETAILS OF 8.0/140KG ✓
PRESTRESSED CEMENT CONCRETE POLES (FACTOR OF SAFETY = 2.5)



- O Denotes Tensioned Wire
- x Denotes Untensioned Wire
- + Possible Position of Earth Wire

WJ
Chief Engineer (C)
Corporate Office
MSEDCL
Mumbai

TECH. GUARANTEE PARTICULARS 8.0M/140kg WORKING LOAD

SECTION:	A) TOP	: 105 X 90 mm
	B) BOTTOM	: 275 X 90 mm
QUANTITY OF CONCRETE		: 0.137 m ³
CONCRETE GRADE		: M-42
OVERALL LENGTH SUPPORT		: 8.0 m
PLANTING DEPTH		: 1.5 m
DIAMETER OF PRESTRESSING WIRE		: 4 mm
DIAMETER OF G.I. WIRE		: 4 mm
NUMBER TENSIONED WIRE		: 8 No's
NUMBER UN TENSIONED WIRE		: 2 No's
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS		: 420 kg/cm ²
CLEAR COVER		: 20 mm
FACTORY OF SAFETY		: 2.5
WORKING LOAD		: 140 kg
ULTIMATE LOAD		: 350 kg
WEIGHT OF POLE (THEORETICAL)		: 356 kg
LOAD APPLICATION AT A POINT FROM THE TOP		: 600 mm
ULTIMATE TENSION STRENGTH FOR 4MM WIRE		: 17500 kg/cm ²
G.I EARTH WIRE 8SWG		: 1No.



ELEVATION SIDE

Abela
Add: Executive Engineer (C)

Manchukonda Prakasham Industries India Pvt. Ltd.
Manchukonda House, 65/5507, Colony 23, Dwarakapuri Colony,
Punjagutta, Hyderabad -500082, INDIA.
Tel: 040-44507070 Email: info@manchukonda.com

TITLE: REINFORCEMENT DETAILS OF 8.0 M/140KG, P.S.C.C. POLE FACTOR OF SAFETY -2.5	
MANCHUKONDA PRAKASHAM INDUSTRIES INDIA PVT LTD	
D.No. 6-3-347/12/a/12/3, Manchukonda House, Dwarakapuri Colony, Punjagutta, Hyd-82	All dimension are in mm
NOT TO SCALE	

(P. J. Ragit)
Executive Engineer (C)
Civil Division, Durgam

www.manchukonda.com

SCHEDULE OF GUARANTEED TECHNICAL PARTICULAR			
(8MTRS/140 KG PSC POLE)			
PRESTRESSED CEMENT CONCRETE RECTANGULAR POLE :TYPE 8M/140 KG			
DESCRIPTION	UNIT	GURANTEED VALUE	
		REQUIRED	OFFERED
STANDARD		REC Spec,15/1979 & IS-1678:1998	REC Spec,15/1979 & IS-1678 :1998
TYPE		Pre-stressed Concrete (Static Cast)	Pre-stressed Concrete (Static Cast)
SECTION		Rectangular	Rectangular
WORKING LOAD	Kgs.	140kg Acting at 0.6 from top	140kg Acting at 0.6 from top
FACTOR OF SAFTY		2.5	2.5
LENGTH	Mtrs.	8	8
TOP DEPTH	Mm	105	105
BOTTOM DEPTH	Mm	275	275
BREADTH	Mm	90	90
WEIGHT OF CONCRETE AT 28 DAYS	Kgs/Cm ²	420 Kgs/Cm ²	420 Kgs/Cm ²
Maximum Strength of Concrete release	Kgs/Cm ²	210 Kgs/Cm ²	210 Kgs/Cm ²
ULTIMATE TRANSVERSE LOAD	Kgs	350 kgs	350 kgs
FIRST CRACK LOAD (permissible)		Not less than 175 kgs	Not less than 175 kgs
STEEL QUANTITY PER POLE	Kg./Pole	7.38	7.38
Quantity of Cement Per Pole	Kgs	1.41Bags (53 OPC Grade) (70.5kgs)	1.41Bags (53 OPC Grade) (70.5kgs)
CONCRETE QUANTITY	Cum	0.137	0.137
WEIGHT OF POLE (approximate)	Kgs	350	350
CONCRETE COVER	Mm	≥ 20	≥ 20
GRADE OF CONCRETE		M-420	M-420
A) Ultimate tensile strength of pre-stressed wire		175 Kg/sqmm	175 Kg/sqmm
B) Proof Stress		1% of UTS	1% of UTS
G.I Wire – 8SWG (4MM)	Kgs.	0.70kg/pole	0.70kg/pole
NUMBER OF TENSIONED WIRES (4MM)	Nos.	8	8
PLANTING DEPTH		1.5 mtrs	1.5 mtrs
NUMBER OF UNTENSIONED WIRES (PART LENGTH) (4MM)	Nos.	2	2
Marking of Poles		Embossing/Tensil	
Manufacturer Details		Manchukonda Prakasham Industries India Private Limited S.No.426 & 427, NH No.211,Tuljapur Road, Indira Nagar, South Solapur(Mandal), Kasegaon, Solapur Dist, Maharashtra-413004.	

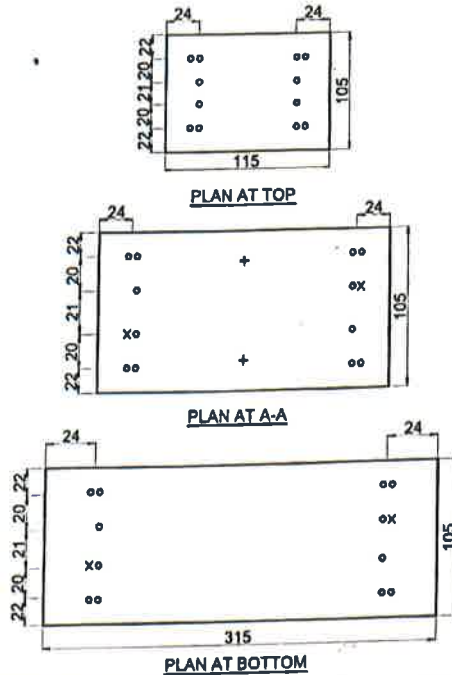
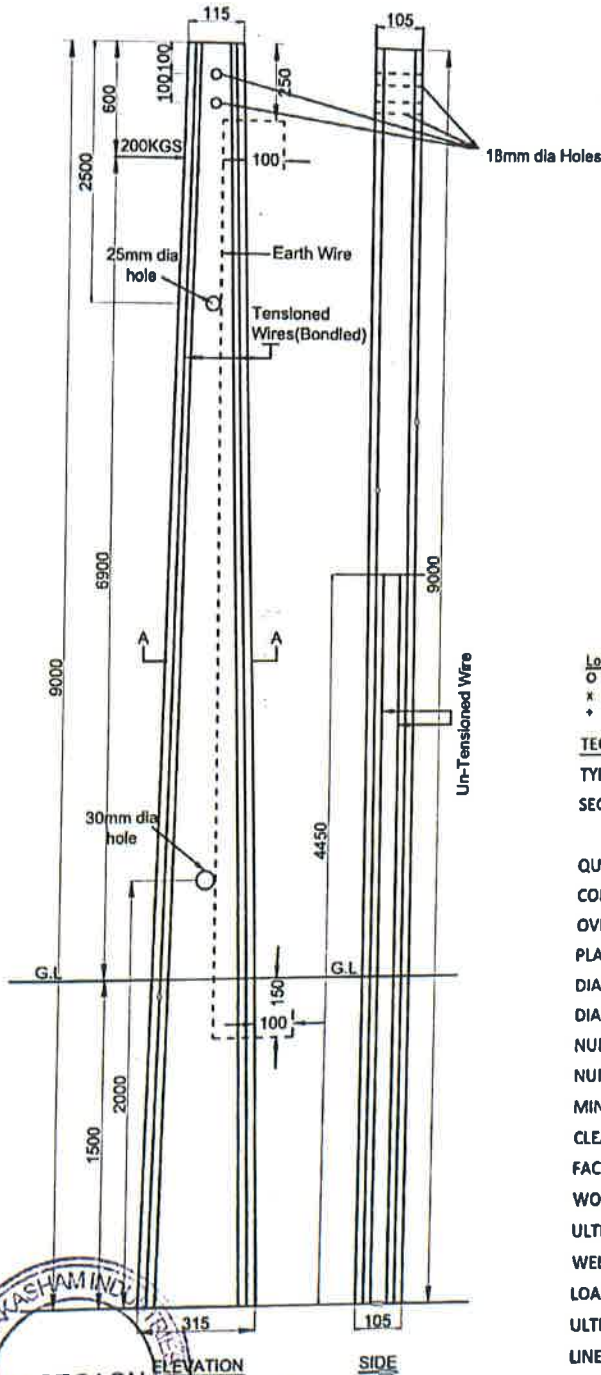


[Signature]
 Exec. Engg. (C)
 COCM Sub Division,
 MSEDCL, Solapur

[Signature]
 (P. J. Ragit)
 Executive Engineer (C)
 Civil Division, Baranati

[Signature]
 Chief Engineer (C)
 Corporate Office
 MSEDCL
 Mumbai

REINFORCEMENT DETAILS OF 9.0/200KG
PRESTRESSED CEMENT CONCRETE POLES (FACTOR OF SAFETY = 2.5)



Location of holes as per REC Standards
 o Denotes Tensioned Wire
 x Denotes Untensioned Wire
 + Possible Position of Earth Wire

Chief Engineer (C)
Corporate Office
MSEDCL
Mumbai

TECHNICAL GUARANTEE PARTICULARS 9.0mtr/200KG WORKING LOAD

TYPE OF POLE	: FLAT
SECTION:	A) TOP : 115 X 105 mm B) BOTTOM : 315 X 105 mm
QUANTITY OF CONCRETE	: 0.203 m ³
CONCRETE GRADE	: M-42
OVERALL LENGTH SUPPORT	: 9.0 m
PLANTING DEPTH	: 1.5 m
DIAMETER OF PRE-STRESSING WIRE	: 4 mm
DIAMETER OF G.I. WIRE	: 4 mm
NUMBER TENSIONED WIRES	: 12 No's
NUMBER UN-TENSIONED WIRES	: 2 No's
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS	: 420 kg/cm ²
CLEAR COVER	: 20 mm
FACTORY OF SAFETY	: 2.5
WORKING LOAD	: 200 kg
ULTIMATE LOAD	: 500 kg
WEIGHT OF POLE (THEORETICAL)	: 528 kg
LOAD APPLICATION AT A POINT FROM THE TOP	: 600 mm
ULTIMATE TENSION STRENGTH FOR 4MM WIRE	: 17500 kg/cm ²
LINE VOLTAGE	: 11 KV - HT & LT Lines
GI EARTH WIRE 8SWG	: 1 no



Manchukonda Prakasham Industries India Pvt. Ltd.
 Add. Executive Engineer (C)
 CCCM Sub Division,
 MSEDCL, Solapur

Manchukonda House, 6-3-347/12/A/12/3, Dwarakapuri Colony,
 Punjagutta, Hyderabad - 500082, INDIA.
 Tel: 040-44507070 Email: info@manchukonda.com

(P. J. Ragit)
 Executive Engineer (C)
 Civil Division, Baran...

TITLE: REINFORCEMENT DETAILS OF 9.0 M/200KG, P.S.C.C. POLE FACTOR OF SAFETY -2.5		
MANCHUKONDA PRAKASHAM INDUSTRIES INDIA PVT LTD		
D.No. 6-3-347/12/a/12/3, Manchukonda House, Dwarakapuri Colony, Punjagutta, Hyd-82	All dimension are in mm	NOT TO SCALE

SCHEDULE OF GUARANTEED TECHNICAL PARTICULAR			
(9MTRS/200 KG PSC POLE)			
PRESTRESSED CEMENT CONCRETE RECTANGULAR POLE :TYPE 9M/200 KG			
DESCRIPTION	UNIT	GURANTEED VALUE	
		REQUIRED	OFFERED
STANDARD		REC Spec, 15/1979 & IS-1678 : 1998	REC Spec, 15/1979 & IS-1678:1998
TYPE		Pre-stressed Concrete (Static Cast)	Pre-stressed Concrete (Static Cast)
SECTION		Rectangular	Rectangular
WORKING LOAD	Kgs.	200kg Acting at 0.6 from top	200kg Acting at 0.6 from top
FACTOR OF SAFTY		2.5	2.5
LENGTH	Mtrs	9	9
TOP DEPTH	Mm	115	115
BOTTOM DEPTH	Mm	315	315
BREADTH	Mm	105	105
WEIGHT OF CONCRETE AT 28 DAYS	Kgs/Cm ²	420 Kgs/Cm ²	420 Kgs/Cm ²
Maximum Strength of Concrete release	Kgs/Cm ²	210 Kgs/Cm ²	210 Kgs/Cm ²
ULTIMATE TRANSVERSE LOAD	Kgs	500kgs	500kgs
FIRST CRACK LOAD (permissible)		Not less than 250 kgs	Not less than 250 kgs
STEEL QUANTITY PER POLE	Kg./Pole	11.54	11.54
Quantity of Cement Per Pole	Kgs	2.0 Bags (53 OPC Grade) (100 Kgs)	2.0 Bags (53 OPC Grade) (100 Kgs)
CONCRETE QUANTITY	Cum	0.203	0.203
WEIGHT OF POLE (approximate)	Kgs	550	550
CONCRETE COVER	Mm	≥ 20	≥ 20
GRADE OF CONCRETE		M-420	M-420
A) Ultimate tensile strength of pre-stressed wire		175 Kg/sqmm	175 Kg/sqmm
B) Proof Stress		1% of UTS	1% of UTS
G.I Wire – 8SWG (4MM)	Kgs.	0.70kg/pole	0.70kg/pole
NUMBER OF TENSIONED WIRES-4MM	Nos.	12	12
PLANTING DEPTH		1.5 mtrs	1.5 mtrs
NUMBER OF UNTENSIONED WIRES (PART LEGHTH) (4MM)	Nos.	2	2
Marking of Poles		Embossing / Tensil	
Manufacturer Details		Manchukonda Prakasham Industries India Private Limited S.No.426 & 427, NH No.211, Tuljapur Road, Indira Nagar, South Solapur (Mandal), Kesegaon, Solapur Dist, Maharashtra-413004.	



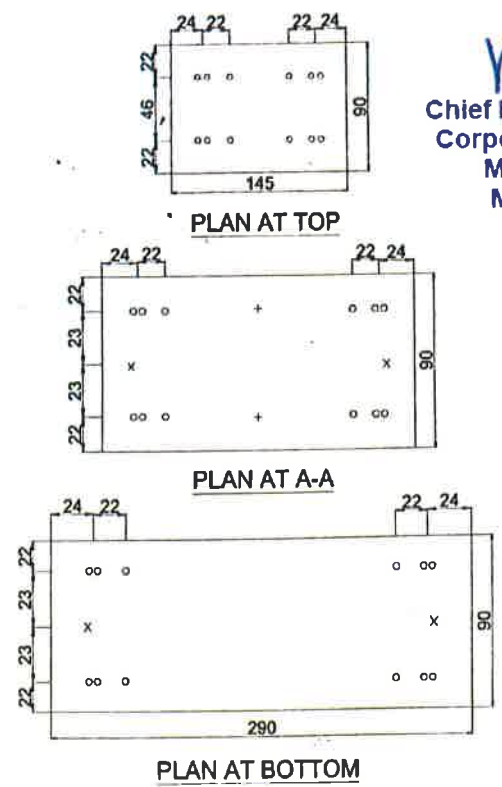
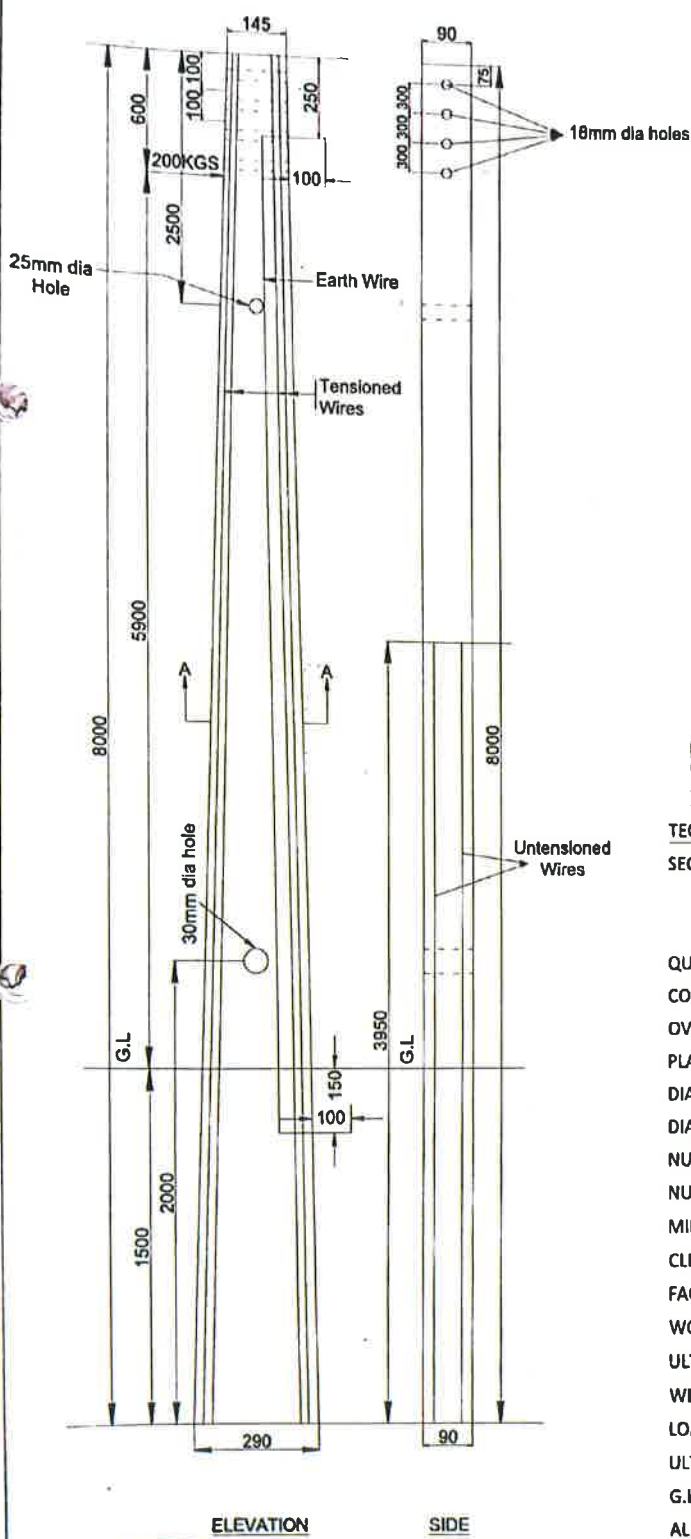
Batli
Executive Engineer (C)
CCCM Sub Division,
MSEDCL, Solapur

P. J. Ragit
Executive Engineer (C)
Civil Division, Baramati

Mj
Chief Engineer (C)
Corporate Office
MSEDCL
Mumbai

REINFORCEMENT DETAILS OF 8.0/200KG
PRESTRESSED CEMENT CONCRETE POLES (FACTOR OF SAFETY = 2.5)

[Signature]
Chief Engineer (C)
Corporate Office
MSEDCL
Mumbai



Location of holes as per REC Standards
 o Denotes Tensioned Wire
 x Denotes Untensioned Wire
 + Possible Position of Earth Wire

TECHNICAL GUARANTEE PARTICULARS 8.0mtr/200KG WORKING LOAD

SECTION:	A) TOP	: 145 X 90 mm
	B) BOTTOM	: 290 X 90 mm
QUANTITY OF CONCRETE		: 0.157 m ³
CONCRETE GRADE		: M-42
OVERALL LENGTH SUPPORT		: 8.0 m
PLANTING DEPTH		: 1.5 m
DIAMETER OF PRE-STRESSING WIRE		: 4 mm
DIAMETER OF GI WIRE		: 4 mm
NUMBER TENSIONED WIRES		: 12 no's
NUMBER UN-TENSIONED WIRES		: 2 no's
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS		: 420 kg/cm ²
CLEAR COVER		: 20 mm
FACTOR OF SAFETY		: 2.5
WORKING LOAD		: 200 kg
ULTIMATE LOAD		: 500 kg
WEIGHT OF POLE (THEORETICAL)		: 380 kg
LOAD APPLICATION AT A POINT FROM THE TOP		: 600 mm
ULTIMATE TENSION STRENGTH FOR 4MM WIRE		: 17500 kg/cm ²
G.I. EARTH WIRE 8SWG		: 1 no
ALL DIMENSIONS ARE IN mm		NOT TO SCALE



[Signature]
Addl. Executive Engineer,
CCCM Sub Division,
MSEDCL, Solapur

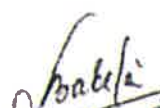
[Signature]
(P. J. Ragit)
Executive Engineer (C)
Civil Division, Baranasi



www.manchukonda.com

SCHEDULE OF GUARANTEED TECHNICAL PARTICULAR			
(8MTRS/200 KG PSC POLE)			
PRESTRESSED CEMENT CONCRETE RECTANGULAR POLE :TYPE 8M/200 KG			
DESCRIPTION	UNIT	GURANTEED VALUE	
		REQUIRED	OFFERED
STANDARD		REC Spec, 15/1979 & IS-1678:1998	REC Spec, 15/1979 & IS-1678:1998
TYPE		Pre-stressed Concrete (Static Cast)	Pre-stressed Concrete (Static Cast)
SECTION		Rectangular	Rectangular
WORKING LOAD	Kgs.	200kg Acting at 0.6 from top	200kg Acting at 0.6 from top
FACTOR OF SAFTY		2.5	2.5
LENGTH	Mtrs.	8	8
TOP DEPTH	Mm	90	90
BOTTOM DEPTH	Mm	290	290
BREADTH	Mm	145	145
WEIGHT OF CONCRETE AT 28 DAYS	Kgs/Cm ²	420 Kgs/Cm ²	420 Kgs/Cm ²
Maximum Strength of Concrete release	Kgs/Cm ²	210 Kgs/Cm ²	210 Kgs/Cm ²
ULTIMATE TRANSVERSE LOAD	Kgs	500 kgs	500 kgs
FIRST CRACK LOAD (permissible)		Not less than 250 kgs	Not less than 250 kgs
STEEL QUANTITY PER POLE	Kg./Pole	10.49	10.49
Quantity of Cement Per Pole	Kgs	1.62Bags (53 OPC Grade) (81Kgs)	1.62Bags (53 OPC Grade) (81Kgs)
CONCRETE QUANTITY	Cum	0.157	0.157
WEIGHT OF POLE (approximate)	Kgs	408	408
CONCRETE COVER	Mm	≥ 20	≥ 20
GRADE OF CONCRETE		M420	M420
A) Ultimate tensile strength of pre-stressed wire		175 Kg/sqmm	175 Kg/sqmm
B) Proof Stress		1% of UTS	1% of UTS
G.I Wire – 8SWG-4MM	Kgs.	0.70kg/pole	0.70kg/pole
NUMBER OF TENSIONED WIRES (4MM)	Nos.	12	12
PLANTING DEPTH		1.5 mtrs	1.5 mtrs
NUMBER OF UNTENSIONED WIRES (PART LEGHTH) (4MM)	Nos.	2	2
Marking of Poles		Embossing / Tensil	
Manufacturer Details		Manchukonda Prakasham Industries India Private Limited S.No.426 & 427, NH No.211, Tuljapur Road, Indra Nagar, South Solapur Mandal, Kasegaon, Solapur Dist, Maharashtra-413004.	




 Addl. Executive Engineer (C)
 CCCM Sub Division,
 MSEDCL, Solapur
 P. J. Ragit
 (P. J. Ragit)
 Executive Engineer (C)
 Civil Division, Manantali


 Chief Engineer (C)
 Corporate Office
 MSEDCL
 Mumbai