

MEGHALAYA ENERGY CORPORATION LIMITED



TECHNICAL SPECIFICATION

FOR

HOT DIP GALVANIZED STEEL TABULAR POLES

OFFICE OF THE ADDITIONAL CHIEF ENGINEER, MATERIAL
MANAGEMENT, MeECL, SHILLONG

Tender No. MeECL/ACE (MM)/Gal S P/2021/192

SHILLONG : _____

August, 2021

Price: ₹. 3, 000.00 (Inclusive of GST)



MEGHALAYA ENERGY CORPORATION LIMITED
OFFICE OF THE ADDITIONAL CHIEF ENGINEER (EL)
MATERIAL MANAGEMENT
LUM JINGSHAI; SHORT ROUND ROAD; SHILLONG-793001
CIN:U40101ML2009GC008374

☎: 0364-2591930

✉: ace.mm.meecl@gmail.com

TENDER NOTICE

Sealed Tenders are invited from Registered Suppliers of MeECL for Supply of Hot Dip Galvanised Steel Tabular Poles which will be accepted upto 01 PM of 23/08/2021 and opened on the same date at 3:00PM. The Bid Documents can be purchased from the office of the undersigned on payment of Tender Fee of Rs 3000.00 (Rupees three thousand) only inclusive of GST @18%, (Non- Refundable) by Demand Draft/Banker's Cheque pledged in favour of the "Principal Account", MeECL, Shillong or can be downloaded from the MeECL Website: www.meecl.nic.in. Downloaded Tender documents should be accompanied with the Tender fee as specified above without which the tender will be rejected.

(Shri M. B. Kurbah)
Additional Chief Engineer (MM)

Memo No: ACE(MM)/1003/2008-09/ 192

Dated 02/08/2021

Copy to:-

1. The Director (Distribution), MePDCL, Shillong.
2. The Chief Accounts Officers, MeECL, Shillong for favour of kind information
3. The Director of Information & Public Relation, Govt. of Meghalaya, Shillong for favour of information with a request to kindly publish the notice in the Shillong Times, Mawphor & Salantini Janera in one issue. The newspaper are to submit their bill in triplicate to the undersigned for payment.
4. The Executive Engineer(MIS), MePDCL, Shillong with a request to upload the above alongwith bid documents in the MeECL's Website.
5. File No. Galvanised Poles Tender File.
6. Notice Board

(Shri M. B. Kurbah)
Additional Chief Engineer (MM)



MEGHALAYA ENERGY CORPORATION LIMITED

OFFICE OF THE ADDITIONAL CHIEF ENGINEER (EL)

MATERIAL MANAGEMENT

LUM JINGSHAI; SHORT ROUND ROAD; SHILLONG-793001

CIN : U40101ML2009SGC008274

Phone – 0364-2591930

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A. PARTICULARS TO BE SUBMITTED ALONG WITH TENDER No.ACE(MM)/MeECL/

1. As this tender is intended for establishment of rates only and involve firms registered with the office of the Additional Chief Engineer (Materials Management), MeECL, Shillong no Earnest Money is required.
2. **Income Tax, GST Certificate & Professional Tax Certificate:-** Attested copies of upto date Income Tax, PAN Card, GST Certificate and Professional Tax Certificate are to be submitted. Otherwise Tax Exemption Certificate from the concerned authority is required.
3. **Scheduled Tribe/ Scheduled Caste Certificate:-** Schedule Tribe / Schedule Caste tenderers are to submit the attested copy of ST/ SC Certificate issued by the competent authority of their respective District.
4. **Trading License:-** Non-Tribal tenderers are to submit the attested copy of upto date Trading license issued by the competent authority.
5. **Technical Particulars:-** Guaranteed Technical Particulars (GTP) are to be furnished in full details. The Guaranteed Technical Particulars for all sizes of Steel Tubular Poles shall be as per the given Schedule.
6. **Break-up of Tender Rate:-** The Tender Rate should be in detailed break-up e.g. Ex-work, F.O.R. Destination, Taxes Insurance, Freight, etc.
7. Name and Address of the tenderer should be indicated in a distinct manner. In case the tender is an Authorised Dealer of any Firm, the name and address of the Principal Manufacturer of the items should be indicated. Attested copy of Certificate for authorised dealership/ sub-dealership should also be submitted.
8. All pages of the Original tender paper issued by this office should be submitted along with the bid rate(s)/ tender duly signed by the tenderer, thereby acknowledging their full awareness and acceptance of the terms and conditions etc. of the tender documents.

B. GENERAL CONDITIONS.

1. Each tender should be filled up and complete with all particulars/ documents as specified in (A) above, along with General Conditions of Supply and the relevant technical specifications. The Purchase of a copy of the Tender Paper comprising of the General Conditions of Supply and relevant Technical Specifications on payment of Rs.3000.00 (Rupees three thousand) only inclusive of GST @ 18%, by the Demand Draft/ Banker's Cheque (Non-refundable) duly pledged in favour of **Principal Account, Me.E.C.L., Shillong** is compulsory for consideration and acceptance of the tender. Offers not in conformity with Condition of supply and Technical Specification of MeECL shall not be considered.

2.STANDARDS:

- 2.1 The Equipment/ materials shall conform in all respect to the relevant Indian Standards (where applicable) except where otherwise mentioned in the specification.
- 2.2.1 Where any other standards have been followed by the tenderer the salient points of difference between the standards adopted and relevant Indian Standards shall be clearly brought out in the tender. Also deviation if any, from the specification shall be specifically brought out in the Schedule of the deviation i.e. Schedule-II. Me.E.C.L. reserves the right to accept or reject the deviations.

3.Placing of Purchase Order:

The Tenderer shall note that the Me.E.C.L. is not bound to place Purchase Order only on the Firm quoting the lowest rate and that the Me.EC.L reserves the right without assigning any reason thereof to place separate order either partially or totally on one or a number of suppliers for items covered in the specification. The offer of these items shall be on individual merit for bid evaluation purpose.

4.Responsibility of Design and Competence of the Tenderer :-

- 4.1 The Tenderer shall assume full responsibility for adequate design and shall ensure that procedures/ Techniques conforming to the best modern engineering practices for the operating condition specified are used by the manufacturer.
- 4.2 The Poles as offered by the tenderer or principal shall be in satisfactory service in any of the Power Supply utility for a minimum period of five years. (Supporting documents to be enclosed).

- 4.3 Me.E.C.L. reserves the right to waive the stipulation in respect of experience in case of newly established Indian firms.

5.Literature and Drawings:-

The tenderer shall supply literature and drawings from the manufacturers for each item covered under the specification. In addition to these, the tenderer shall also submit general outline plan and dimensional drawings for individual equipment/ materials along with their weight, package, sizes, etc.

6. Guaranteed Technical Particulars (GTP):-

The tenderer shall submit with the offers the Guaranteed Technical Particulars (GTP) for all the items covered under this specification along with their specification that do not meet or exceed the requirement laid down in the specification.

7. Tests:-

- 7.1 Report of all type tests for each item, part as stipulated in the relevant I.S.S. (Where applicable) shall be furnished along with the offer.
- 7.2 The routine tests as per relevant I.S. Specifications shall be carried out on each type of material. The type test as per I.S.S. shall be carried out on the prescribed number of poles/ material if required by Me.E.C.L. at the time of placing order. These test shall be carried out in the presence of Me.E.C.L's representative if so desired by the Me.E.C.L.
- 7.3 Tenderer should mention the testing facilities available in the factory with list of tools and equipment for conducting works test as per relevant I.S.S.

8.All items shall have full particulars engraved thereon with the name of manufacturer, along with ISI marking. All poles supplied to MeECL shall have "MeECL" engraved on their middle section.

9.Terms of payments:-

100% payment against receipt of all materials at site in full and in good condition as per terms and conditions of purchase order.

10.Delivery:-

Delivery should be strictly within the time to be specified in the purchase order.

11.Penalty for late delivery:-

In case the supplier fails to deliver the materials within the specified time, liquidated damages will be recoverable @ 0.5% of the undelivered quantity per week or part of a week during

which the delivery has fallen arrears, subject to maximum of 5% of the contract value. McECL will have the option for purchase elsewhere with due notice to you at your account and risk. undelivered part of same or similar description. The penalty clause is however subject to force majeure clause.

12. Copies of supporting documents (Zerex copies) are to be duly authenticated with attestation of the Government Gazetted Officer.

13. The undersigned reserves the right to accept/ reject any/ all tenders without assigning any reason thereof and is not bound to accept the lowest rate.

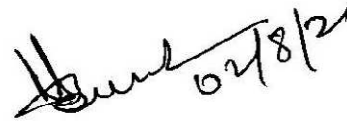
14. Validity of the rate offered should be minimum 2 years.

15. **PARTICULAR INFORMATION:-**

15.1 Date of opening of the Tender.

Time of opening of the Tender.

In case the opening date is declared as office holiday in normal cases, the following working day will be the opening day.



Additional Chief Engineer (MM.)

TECHNICAL SPECIFICATION FOR HOT DIP GALVANISED STEEL TUBULAR POLES FOR OVERHEAD POWER LINES

1.0 SCOPE:

1.1.1 This specification covers the general requirements towards design, manufacture, testing at manufacturers works, supply and delivery for tubular steel poles of circular cross section (swaged type) for overhead power lines.

2.0 STANDARD :

2.1. The galvanized tubular steel poles shall conform to the latest edition of Indian Standard specification

- IS: 2713 (Part – I, III) : 1980 Specification for Steel Tubular poles
- The Steel Tubular Poles conforming to other internationally accepted, which ensure equal or higher quality than the standards, mentioned above also be acceptable. In case the bidder who wish to offer material conforming to the other standards, salient points of difference between adopted and specific standards with authentic English Translation shall be furnished.

3.0 Topography and Climatic Condition :

3.1. The materials offered, shall be suitable for operation in tropical climate and will be subjected to the sun and inclement weather and shall be able to withstand wide range of temperature variation. For the purpose of design, average atmospheric temperature may be considered to be 50 °C with humidity nearing saturation.

4.0 Materials :

4.1. The materials used in construction of galvanized tubular steel poles shall be of the tested quality of steels of minimum tensile strength of 410 MPa (Normal duty) and 540 MPa (Heavy duty)

4.2. The materials, when analysed in accordance with IS: 228 (Part-III : 1972) and IS: 228 (Part-IX) shall not show sulphur and phosphorous contents of more than 0.060 percent each.

5.0 FREEDOM FROM DEFECTS

5.1 Poles shall be well finished, clean and free from harmful surface defects. Ends of the pole shall be cut square. Poles shall be straight, smooth and cylindrical.

6.0 TOLERANCES

6.1 Outside diameter – The poles shall be as nearly circular as possible and their outside diameter shall not vary from the appropriate value, except at the joint or step, by more than + 1.0 percent.

6.2 Thickness

6.2.1 In the case of welded tubes, its thickness shall not fall below the thickness specified by more than 10 percent.

6.2.2 In the case of seamless tubes, the following tolerances on thickness shall apply

a) Where the ratio of the thickness to the outside diameter is more than 3 percent, - 12.5 percent of the specified thickness; and

b) Where the ratio of the thickness to the outside diameter is equal to or less than 3 percent; - 15 percent of the specified thickness.

6.3 **Length** – the tolerance on the length shall be as follow :

On the length of any section +/- 40mm

On the overall length of poles +/- 25mm

6.4 **Weight** – The mean weight for bulk supplies shall be not more than 5 percent below the calculated value. The weight of any single pole shall not fall below the calculated weight by more than 7.5 percent.

6.5 **Straightness**- The finished pole shall not be out of straightness by more than 1/600 of its length.

7.0 PROTECTION AGAINST CORROSION

The pole shall be **Hot Dip Galvanized (inside & outside)** having minimum mass of zinc coating 400 gms per sq, mtr as per IS: 2713 (Pt-II)/1980 and IS: 2633/1972.

8.0 Earthing Arrangements :

For earthing arrangement a through hole of 14mm diameter shall be provided in each pole at a height of 300mm above the planting depth. An MS nut suitable for a bolt of 5/8” is to be welded in the hole.

9.0 Convex type caps to be provided with each pole

10.0 MS base plates to be provided with each pole as per IS: 2713 (Pt.I)/1980

11.0 PRINCIPAL PARAMETERS

A.

Sl. No	ITEM DESCRIPTION	PARAMETER	PARAMETER	PARAMETERS
1.	Type of Pole	SP-76	SP-66	SP-60
2.	Overall Length	14.5 M	12.0 M	12.0 M
3.	Planting Depth	2.0 M	2.0 M	2.0 M
4.	Load Applied from top at a distance of	0.60 M	0.60 M	0.60 M
5.	Height above ground	12.5 M	10.0 M	10.0 M
6.	Length of sections			
	Bottom	6.5 M	5.80 M	5.80 M
	Middle	4.0 M	3.10 M	3.10 M
	Top	4.0 M	3.10 M	3.10 M
7.	Outside Diameter & thickness of section			
a	Bottom, mm	219.1 x5.90	219.1 x5.90	165.1 x 5.40
b	Middle ,mm	193.7 x4.85	193.7 x4.85	139.7 x 4.50
c	Top,mm	165.1 x 4.5	165.1 x 4.5	114.3 x 3.65
8.	Approx. Wt of pole	380 KG	322 KG	208 KG
9.	Crippling load	514 kgf	650 kgf	333 kgf
10.	Breaking load	724 kgf	916 kgf	469 kgf
11.	Ultimate tensile strength	410 MPa (42 KGf / mm ²)	410 MPa (42 KGf / mm ²)	410 MPa (42 KGf / mm ²)
12.	Base Plate	A cast iron base plate (Detachable) of size 400 mm x 400 mm x 8 mm shall be welded at the bottom of the pole.	A cast iron base plate (Detachable) of size 400x400x8 mm shall be welded at the bottom of the pole.	A cast iron base plate (Detachable) of size 400x400x8 mm shall be welded at the bottom of the pole.
13.	Painting	The complete pole shall be Galvenised as per IS:6745/1972 and the inner side & outer underground portion of the pole is to be painted with black bituminous paint conforming to IS : 158-1968 throughout,[internally and	The complete pole shall be Galvenised as per IS: 6745/1972 and the inner side & outer underground portion of the pole is to be painted with black bituminous paint conforming to IS : 158-1968	The complete pole shall be Galvenised as per IS:6745/1972 and the inner side & outer underground portion of the pole is to be painted with black bituminous paint conforming to IS : 158-1968 throughout,[internally and externally, up to

		externally, up to the level which goes inside the earth.	throughout,[internally and externally, up to the level which goes inside the earth.	the level which goes inside the earth.
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B.

Sl. No	ITEM DESCRIPTION	PARAMETER	PARAMETER	PARAMETERS
1	Type of Pole	SP-39	SP-14	SP-4
2	Overall Length	9.5 M	8.0 M	7.5 M
3	Planting Depth	1.8 M	1.5 M	1.25M
4	Load Applied from top at a distance of	0.60 M	0.30 M	0.30
5	Height above ground	7.7 M	6.5 M	6.25M
6	Length of sections			
	Bottom	5.0 M	4.5 M	4.5 M
	Middle	2.25 M	1.75 M	1.5 M
	Top	2.25 M	1.75 M	1.5 M
7	Outside Diameter & thickness of section			
a	Bottom, mm	165.1 x5.4	139.7 x4.85	114.3 x 3.65
b	Middle, mm	139.7 x4.5	114.3 x3.65	88.9 x 3.25
c	Top, mm	114.3 x 3.65	88.9x 3.25	76.1x 3.25
8	Approx. Wt of pole	170 KG	111 KG	67 KG
9	cripling load	441 kgf	322 kgf	170 kgf
10	breaking load	621 kgf	453 kgf	240 kgf
11	Ultimate tensile strength	410 MPa (42 KGf / mm ²)	410 MPa (42 KGf / mm ²)	410 MPa (42 KGf / mm ²)
12	Base Plate	A Cast Iron base plate (Detachable)of size 400 mm x 400 mm x 8 mm shall be welded at the bottom of the pole.	A Cast Iron base plate(Detachable) of size 400×400×8 mm shall be welded at the bottom of the pole.	A Cast Iron base plate (Detachable)of size 400×400×8 mm shall be welded at the bottom of the pole.
13	Painting	The complete pole shall be	The complete pole shall be	The complete pole shall be

		Galvanized as per IS: 2713 (Pt-II)/1980 and the inner side & outer underground portion of the pole is to be painted with black bituminous paint conforming to IS: 158-1968 throughout,[internally and externally, up to the level which goes inside the earth.	Galvanized as per IS: 2713 (Pt-II)/1980 and the inner side & outer underground portion of the pole is to be painted with black bituminous paint conforming to IS: 158-1968 throughout,[internally and externally, up to the level which goes inside the earth.	Galvanized as per IS: 2713 (Pt-II)/1980 and the inner side & outer underground portion of the pole is to be painted with black bituminous paint conforming to IS: 158-1968 throughout,[internally and externally, up to the level which goes inside the earth.
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12.0 Tests and Test Certificates :

12.1 The following tests shall be conducted on finished poles :

- A. Tensile test and chemical analysis for sulphur and phosphorous ,
- B. Deflection test,
- C. Permanent set test, and
- D. Drop test.

12.2 In addition to above, verification of poles dimensions as per IS: 2713 (Part-III): 1980 shall be carried out during acceptance of lots.

12.3 Number of poles selected for conducting different tests shall be in accordance to clause No.10.1.1 and No. 10.1.12: of IS: 2713 (Part-I) 1980.

12.4 Tests shall be carried out before supply of each consignment at the manufacturers works and test certificates should be submitted to the purchaser for approval prior to delivery.

12.5 Re-tests, if any, shall be made in accordance with IS: 2713 (Part-I) 1980.

12.6 Purchaser reserves the right to inspect during manufacturing and depute his representative to inspect/test at the works.

12.7 If any extra cost is required for carrying out the above specified tests, the same shall be borne by the tenderer.

12.8 Hot dip Galvanized test for zinc coating in accordance with IS: 2633/1972

13.0 Marking :

13.1 The poles shall be marked with designation, manufacturer's identification, year of manufacture and name of the purchaser: MeECL

13.2 The poles shall be marked with the ISI certification mark.

14.0 **Performance:-**

14.1 The bidder shall furnish a list of the major supplies effected during the last 3 (three) years indicating the volume of supply and actual delivery dates alongwith the bids.

14.2 Bids may not be considered if the past manufacturing experience is found to be less than 3 (three) years.

15.0 **Deviation:-**

15.1 Any deviation in technical specification shall be clearly indicated with sufficient reasons thereof. Purchaser shall however reserve the right to accept and/or reject the same without assigning any reasons what-so-ever.

16.0 **Guaranteed Technical Particulars:**

16.1 The tenderer shall furnish all necessary guaranteed technical particulars in the prescribed proforma enclosed hereinafter.

**GUARANTEED TECHNICAL PARTICULARS OF HOT DIP GALVANIZED
7.5M(SP-04) STEEL TUBULAR POLE**

(To be filled by the Tenderer separately)

Sl. NO	PARAMETER	UNITS	GUARANTEED VALUE
1	Manufacturer' Name and address		
2	Particulars of raw Materials		
3	a) Whether tubes are of seamless construction or welded type		
	b) Is it manually welded tubes? If so state name/address of manufacturer		
	c) Is it ERW tubes? If so, state name/address of manufacturer		
4	Overall Length	mm	
5	Effective length of section		
	a) Bottom h3	mm	
	b) Middle h2	mm	
	c) Top h1	mm	
6	Effective dia thickness of section		
	a) Bottom h3	mm	
	b) Middle h2	mm	
	c) Top h1	mm	
7	Approximate Weight	kg	
8	Deflection Test. (Weight applied 131Kgf). Shall not exceed 157.5mm		
9	Permanent Set Test. (Weight applied 220Kgf). Shall not exceed 13mm.		
10	Drop Test (Height 2Mtrs)		

Signature_____

Printed Name_____

Designation_____

Seal

**GUARANTEED TECHNICAL PARTICULARS OF HOT DIP GALVANIZED
8.0M (SP-14) STEEL TUBULAR POLE**

(To be filled by the Tenderer separately)

Sl. NO	PARAMETER	UNITS	GUARANTEED VALUE
1	Manufacturer' Name and address		
2	Particulars of raw Materials		
3	d) Whether tubes are of seamless construction or welded type		
	e) Is it manually welded tubes? If so state name/address of manufacturer		
	f) Is it ERW tubes? If so, state name/address of manufacturer		
4	Overall Length	mm	
5	Effective length of section		
	d) Bottom h3	mm	
	e) Middle h2	mm	
	f) Top h1	mm	
6	Effective dia thickness of section		
	d) Bottom h3	mm	
	e) Middle h2	mm	
	f) Top h1	mm	
7	Approximate Weight	kg	
8	Deflection Test. (Weight applied 131Kgf). Shall not exceed 157.5mm)		
9	Permanent Set Test. (Weight applied 220Kgf). Shall not exceed 13mm.		
10	Drop Test (Height 2Mtrs)		

Signature_____

Printed Name_____

Designation_____

Seal

**GUARANTEED TECHNICAL PARTICULARS OF HOT DIP GALVANIZED
9.5M (SP-39) STEEL TUBULAR POLE**

(To be filled by the Tenderer separately)

Sl. NO	PARAMETER	UNITS	GUARANTEED VALUE
1	Manufacturer' Name and address		
2	Particulars of raw Materials		
3	g) Whether tubes are of seamless construction or welded type		
	h) Is it manually welded tubes? If so state name/address of manufacturer		
	i) Is it ERW tubes? If so, state name/address of manufacturer		
4	Overall Length	mm	
5	Effective length of section		
	g) Bottom h3	mm	
	h) Middle h2	mm	
	i) Top h1	mm	
6	Effective dia thickness of section		
	g) Bottom h3	mm	
	h) Middle h2	mm	
	i) Top h1	mm	
7	Approximate Weight	kg	
8	Deflection Test. (Weight applied 131Kgf). Shall not exceed 157.5mm		
9	Permanent Set Test. (Weight applied 220Kgf). Shall not exceed 13mm.		
10	Drop Test (Height 2Mtrs)		

Signature_____

Printed Name_____

Designation_____

Seal

**GUARANTEED TECHNICAL PARTICULARS OF HOT DIP GALVANIZED
12M (SP-60) STEEL TUBULAR POLE**

(To be filled by the Tenderer separately)

Sl. NO	PARAMETER	UNITS	GUARANTEED VALUE
1	Manufacturer' Name and address		
2	Particulars of raw Materials		
3	j) Whether tubes are of seamless construction or welded type		
	k) Is it manually welded tubes? If so state name/address of manufacturer		
	l) Is it ERW tubes? If so, state name/address of manufacturer		
4	Overall Length	mm	
5	Effective length of section		
	j) Bottom h3	mm	
	k) Middle h2	mm	
	l) Top h1	mm	
6	Effective dia thickness of section		
	j) Bottom h3	mm	
	k) Middle h2	mm	
	l) Top h1	mm	
7	Approximate Weight	kg	
8	Deflection Test. (Weight applied 131Kgf). Shall not exceed 157.5mm		
9	Permanent Set Test. (Weight applied 220Kgf). Shall not exceed 13mm.		
10	Drop Test (Height 2Mtrs)		

Signature_____

Printed Name_____

Designation_____

Seal

**GUARANTEED TECHNICAL PARTICULARS OF HOT DIP GALVANIZED
12M (SP-66) STEEL TUBULAR POLE**

(To be filled by the Tenderer separately)

Sl. NO	PARAMETER	UNITS	GUARANTEED VALUE
1	Manufacturer' Name and address		
2	Particulars of raw Materials		
3	m) Whether tubes are of seamless construction or welded type		
	n) Is it manually welded tubes? If so state name/address of manufacturer		
	o) Is it ERW tubes? If so, state name/address of manufacturer		
4	Overall Length	mm	
5	Effective length of section		
	m) Bottom h3	mm	
	n) Middle h2	mm	
	o) Top h1	mm	
6	Effective dia thickness of section		
	m) Bottom h3	mm	
	n) Middle h2	mm	
	o) Top h1	mm	
7	Approximate Weight	kg	
8	Deflection Test. (Weight applied 131Kgf). Shall not exceed 157.5mm		
9	Permanent Set Test. (Weight applied 220Kgf). Shall not exceed 13mm.		
10	Drop Test (Height 2Mtrs)		

Signature_____

Printed Name_____

Designation_____

Seal

**GUARANTEED TECHNICAL PARTICULARS OF HOT DIP GALVANIZED
14.5M (SP-76) STEEL TUBULAR POLE**

(To be filled by the Tenderer separately)

Sl. NO	PARAMETER	UNITS	GUARANTEED VALUE
1	Manufacturer' Name and address		
2	Particulars of raw Materials		
3	p) Whether tubes are of seamless construction or welded type		
	q) Is it manually welded tubes? If so state name/address of manufacturer		
	r) Is it ERW tubes? If so, state name/address of manufacturer		
4	Overall Length	mm	
5	Effective length of section		
	p) Bottom h3	mm	
	q) Middle h2	mm	
	r) Top h1	mm	
6	Effective dia thickness of section		
	p) Bottom h3	mm	
	q) Middle h2	mm	
	r) Top h1	mm	
7	Approximate Weight	kg	
8	Deflection Test. (Weight applied 131Kgf). Shall not exceed 157.5mm		
9	Permanent Set Test. (Weight applied 220Kgf). Shall not exceed 13mm.		
10	Drop Test (Height 2Mtrs)		

Signature_____

Printed Name_____

Designation_____

Seal

SCHEDULE – II

SCHEDULE OF DEVIATIONS FROM TENDER SPECIFICATION

1. General Condition of Contract.

Sl No	Clause No	Description of deviation

2. Technical Specification.

Certificate: The Tenderer hereby certified that the above mentioned are the only deviation from the Tender Specification.

Signature of the Tenderer

SCHEDULE OF PRICE

Sl No	Description of Steel Tabular Poles	Ex-Work Price (per Pole Rs.)	Freight & Insurance (Rs)	GST	Total unit Rate (Rs)
1	7.5 m Steel Tubular Poles (410-SP-4)				
2	8.0m Steel Tubular Poles (410-SP-14)				
3	9.5m Steel Tubular Poles (410-SP-39)				
4	12.0m (Normal Duty) Steel Tubular Poles (410-SP-60)				
5	12.0m (Heavy Duty) Steel Tubular Poles (410-SP-66)				
6	14.5m Steel Tubular Poles (410-SP-76)				

Signature of the Tenderer with Seal.