

PASCHIM GUJARAT VIJ COMPANY LIMITED

SPECIFICATION OF 22KV G.I. PIN :

1. SCOPE:-

This specification covers the manufacture, testing at works and supply of 22KV G.I.Pins.

2. APPLICABLE STANDARD :

- i) IS No. : 2486 (P.I)/1994 for Insulator fitting.
- ii) IS No. : 2486 (P.II)/1994 for Insulator fitting.
- iii) IS No. : 2062/92 for M.S.
- iv) IS No. : 2633/86 for Hot dip galvanized.
- v) IS No. : 1363 (P.III)/92 for Nut.

3.1 GENERAL REQUIREMENT/DESCRIPTION OF MATERIAL :

The G.I. (M.S) forged pin for 22V Pin Insulators having large steel head with stalk length 300 mm as per reference L-300N of IS-2486 (P.II)/94 having minimum breaking load of 10KN and as per drawing No.Tech x 323 (Rev-4). The G.I. forged pins shall be manufactured confirming to IS-2486 (P.II)/1994 with latest amendment if any. The material composition of M.S.Forged steel pins shall be confirming to IS-2062/1992. The pin nut and spring washer shall be hot dip galvanized as per IS-2633/86. Nut shall be as per IS-1363(P.III)/92.

3.2 DIMENSIONS:

- (a) 22KV.GI.Pin & Spring washer: As per attached drawing No. Tech x 323 (Rev-4).
- (b) Nut : As per IS-1363 (P.III)/92.

4. TYPE TEST:-

22KV G.I.Pins shall be subjected to the following type tests. Type test report shall be submitted of Govt. approved laboratory along with the offer not more than 5 years old. The offer without type test report will be straight-way rejected.

- a) Visual examination.
- b) Verification of dimensions as per PGVCLdrawing No. Tech x 323 (Rev-4).
- c) Checking of threads on heads.
- d) Mechanical failing load test.
- e) Galvanizing test.

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	

5. ACCEPTANCE TESTS :-

Following shall be acceptance test as per IS-2486 (P.I)/1994.

- a) Visual examination.
- b) Verification of dimensions as per PGVCL drawing No. Tech x 323 (Rev-4).
- c) Checking of threads on heads.
- d) Mechanical failing load test.
- e) Galvanizing test.

6. DRAWING:-

Tenderer should submit their own drawing showing dimensions tolerance and required details if any, in line with PGVCL drawing Tech x 323 (Rev-4).

7. SAMPLES:-

The sample criteria for acceptance tests shall be as per IS-2486 (P.I)/94.

8. PACKING:-

20 Nos. (Max.) are to be packed in double gunny bags.

9. GUARANTEED TECHNICAL PARTICULARS :-

All tenderers shall fill up the attached Guaranteed Technical Particulars i.e. Schedule- B-2 with signature and seal.

10. TENDER SAMPLE:-

The Tenderer has to submit **two** nos. of samples alongwith offer. The offer without samples will be straight-way rejected.

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	

SCHEDULE :B-2

Manufacturer's Name & Address.

Guaranteed Technical Particulars (G.T.P).

Technical information and Guaranteed Technical particulars (GTP) for
supply of G.I.Pins for 22KV Pin insulators.

PART-A:

Bidder has to confirm following important requirements.

Sr.No.	Particulars	Confirmation
1.	The 22KV G.I.Pin shall conform to (1) IS-2486 (Part-II)/94 type L-300N (2) PGVCL's specification and (3) Drawing No. Tech x 323 (Rev-4)	
2.	Stalk length 300 mm.	Yes
3.	Shank length 150 mm.	Yes
4.	Shank diameter 24mm.	Yes
5.	Large steel head (Manufacturing tolerance (+) or (-) 5 mm on length.	Yes
6.	Length of thread on shank - 100 mm.	Yes
7.	Collar dia 67mm.	Yes
8.	Collar thickness 6 mm.	Yes
9.	Galvanizing test as per IS-2633.	Yes
10.	Minimum failing load of 10 KN.	Yes
11.	Tolerance upto 38mm (+) or (-) 0.7 mm and above that (+) or (-) 2%.	
12.	Nuts & spring washer shall be hot dip galvanized.	Yes
13.	Packing shall be in double gunny bags containing 20 Nos. per bag.	Yes
14.	Nut as per IS-1363 (P.III)/92.	Yes

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	

PART-'B'

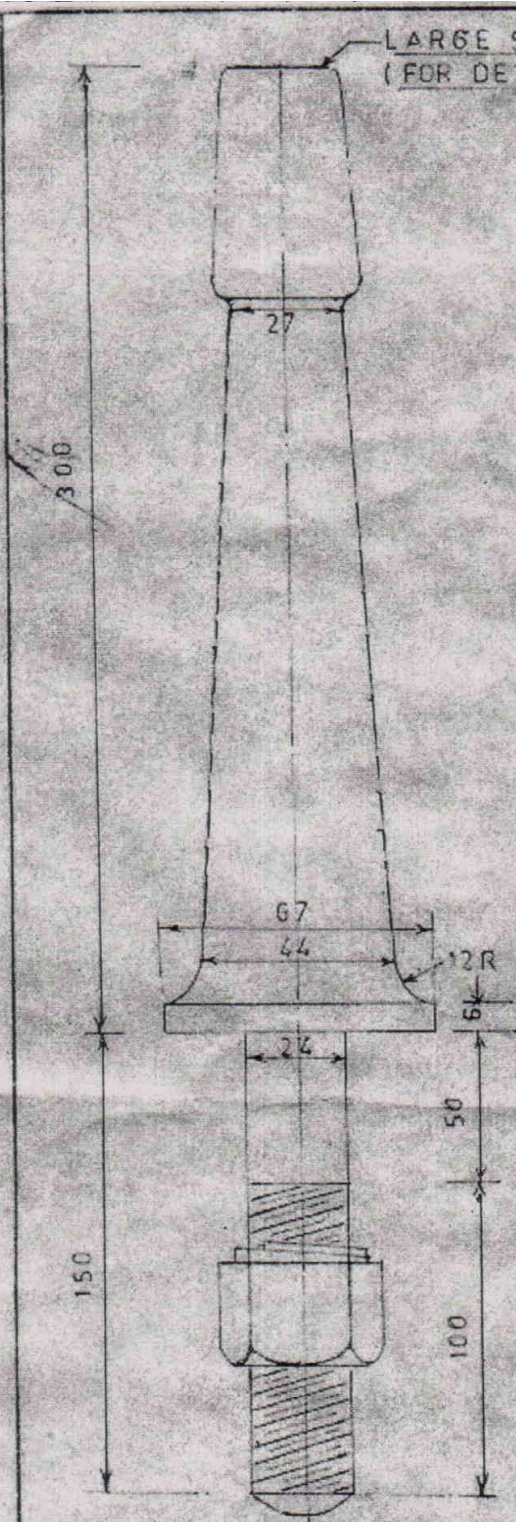
Bidder has to enclose following documents and has to confirm the requirements.

Sr.No.	Particulars	Confirmation
1.	List of Plant & Machinery.	Yes
2.	Type Test Certificate of Govt. approved Laboratory. : Yes : : Lab : : TR No : : Date :	
3.	List of testing facility.	Yes
4	List of orders pending/executed a) With GEB/GUVNL & Its DISCOMS b) With the agencies other than GEB.	Yes Yes
5.	Bidders own drawing.	Yes
6.	Two numbers of samples to be sent with tender.	Yes

PART-'C'

Bidder has to mention below deviation if any, quoting relevant clause of specification.

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	



LARGE STEEL HEAD
(FOR DETAIL SEE FIG 1B)

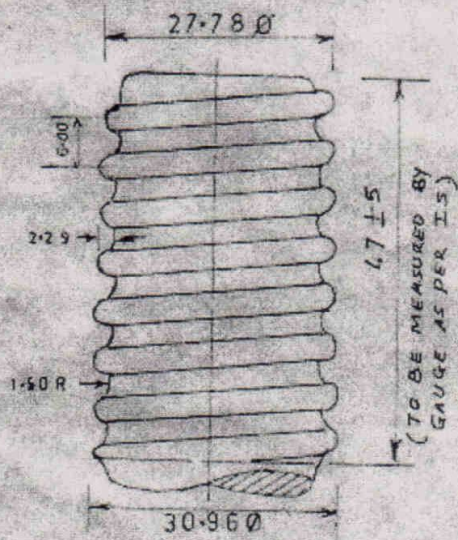


FIG 1B
LARGE STEEL HEAD
REFERENCE - L
I.S. 2486 PART II/1974

MINIMUM FAILING LOAD - 10 KN

SPRING WASHER - 5mm ± 0.2mm THK.
AS PER IS 3093/94

COLLER THICKNESS - 6mm ± 0.7mm

NOTES

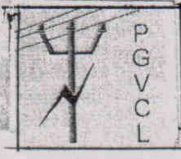
1. MATERIAL - FORGED STEEL TO I.S. 2062/92
2. SURFACE TREATMENT. HOT DIP GALVANISED TO IS - 2633/86.
3. TOLERANCE IN DIMENSIONS:

DIMENSIONS	TOLERANCE
UP TO 38mm.	± 0.7mm.
ABOVE 38mm.	± 2.0%
4. ALL DIMENSIONS ARE IN MM.

B NUT AS PER IS - 1363 (PART III)/92
G NUT AND SPRING WASHER SHALL BE HOT DIP GALVANISED. AS PER IS. 2633/86.

R.A. REVISED AS PER O.N. NO. 01/01/1997 DT. 12.12.99

TYPE L 300 N
I.S. 2486 (PART II/1974)



PASCHIM GUJARAT VIJ COMPANY LTD. RAJKOT
22 KV G.I. Pin
DRG. No: Tech x 323 (Re.4)

Addl. Chief Engineer;
Reg. & Corp. Office PGVCL
Rajkot.