



# PASCHIM GUJARAT VIJ COMPANY LIMITED

REGD. & CORPORATE OFFICE:- "PASCHIM GUJARAT VIJ SEVA SADAN"

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## TECHNICAL SPECIFICATION OF LT SHACKLE BOLT (G. I. BOLT) WITH NUT AND SPRING WASHER

### 1.0 SCOPE:

This specification covers the manufacture, testing at works and supply of G. I. Bolts with Nut and Spring Washer for LT Shackle Insulator.

### 2.0 APPLICABLE STANDARD:

1. IS: 7935/1975 & latest amendment if any, Specification for insulator fitting up to and including 1000 V
2. IS: 2633/1986, for Uniformity of coating & IS 2629 for Hot Dip Galvanizing with latest amendment if any
3. IS: 1363/Part-I & III/1984 & latest amendment if any, Specification of Hexagonal Nut & Bolts

### 3.0. GENERAL CONSTRUCTION REQUIREMENT:

G.I. Bolts with Nut and Spring Washer

### 3.1 MATERIAL:

Bolts & Nuts should be strictly supplied confirming to IS-1363/Part-I & III/1984. The Bolt and Nut should be hot dip galvanized.

### 3.2 DIMENSION:

G. I. Bolts with Nuts & Spring Washer - As per drawing attached with Tender documents over and above dimensions shall be in accordance to the IS-3063.

### 4.0 TYPE TEST CERTIFICATE:

The firm has to submit following type tests for GI Bolt with nut and spring washer of Govt. approved laboratory. The type test certificates must be notarized and "shall not be older than 7 years".

- I. Visual inspection.
- II. Verification of dimensions as per Tender drawing attached with Tender documents
- III. Galvanized test as per IS-2633/1986 for Bolts & Nuts.
- IV. Checking of threads.

Date

Place

Signature of the Tenderer

Company's Round Seal

**5.0 ACCEPTANCE OF LOT:****5.1 SAMPLING & ACCEPTANCE CRITERIA:**

Selection of sample and acceptance criteria shall be in accordance with IS-7935/1975.

The number of fittings to be selected at random from the lot shall be in accordance with col. 1 & 2 of table shown below. If required additional insulator fittings as given in col. 3 of table shall also be selected at random.

**Sample size and criterion for conformity**

Lot size N	First Sample Size n 1	Second Sample Size n 2	Acceptance Number c 1	Rejection Number c 2
(1)	(2)	(3)	(4)	(5)
101 to 500	5	10	0	2
501 to 800	7	14	0	3
801 to 1300	10	20	0	3
1301 to 3200	15	30	1	4
3201 to 8000	25	50	2	5
8001 to above	35	70	2	7

All the LT SHACKLE BOLT (G. I. BOLT) selected as above shall be subjected to the appropriate acceptance test.

**5.2 ACCEPTANCE TEST:**

The following acceptance test shall be carried out.

1. Visual inspection.
2. Verification of dimensions as per drawing no. DGVCL/SP/ GI Nut Bolt-1/1010 dated: 20.11.2009 attached with Tender documents.
3. Checking of threads.
4. Galvanizing test on bolt & nuts IS-2633/1986.

**6.0 TENDER SAMPLE:**

The bidders should submit 05 nos. (Five) samples along with offer. The offer without samples will be straightway rejected.

**7.0 GUARANTEED TECHNICAL PARTICULARS (GTP):**

The tenderer/s should submit Guaranteed Technical Particulars in the original tender papers. Offers without G.T.P will be straightway rejected.

Date \_\_\_\_\_ Place \_\_\_\_\_ Signature of the Tenderer \_\_\_\_\_ Company's Round Seal \_\_\_\_\_

Manufacturer's Name &amp; Address

**Guaranteed Technical Particulars (G.T.P.)**

Technical information and Guaranteed Technical Particulars for supply of LT Shackle Bolt (G. I. Bolts with Nut) for LT Shackle Insulator

**PART-'A'**

Sr. No	Particulars	Confirmation Yes/No
1	G.I. Bolt with nut & spring washer for L.T shackle hardware shall confirm to 1363 (P-I & III)/84 as per DISCOM specifications.	
2	The G. I. Bolts with Nuts shall be as per TENDER drawing attached with Tender documents	
3	Bolts and Nuts shall be Hot Dip Galvanized, Spring washer shall be electroplated.	
4	Type test/Acceptance test on as per IS-7935/1975 i.e. specification for insulator fittings for overhead line with nominal voltage up to and including 1000 V.	
5	Galvanizing test as per IS-2633/1986.	
6	Packing set of G.I. Bolt with nut & spring washer shall be in Double gunny bags containing 500 Nos. per bag.	

Date

Place

Signature of the Tenderer

Company's Round Seal

**PART- B**

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

Sr. No.	Particulars	Confirmation Yes/No
1.	Type Test Certificate of Govt. approved/ NABL Laboratory Name of Laboratory : Test Report Number : Date :	
2	Submission of Tender drawing attached with Tender documents duly signed with supplier's seal	
3	List of Plant and Machinery	
4	List of Testing Facility.	
5	List of orders pending/executed a) With GUVNL (formerly GEB) & their subsidiary Companies Viz. MGVCL/UGVCL/DGVCL/PGVCL/GETCO/GSECL b) With the agencies other than mentioned at (a) above	
6	5 (Five) nos. of samples to be sent with tender	

**PART - C**

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

Date \_\_\_\_\_ Place \_\_\_\_\_ Signature of the Tenderer \_\_\_\_\_ Company's Round Seal \_\_\_\_\_