

**Manufacturer's Name
And Address.**

GUARANTEED TECHNICAL PARTICULARS
**TECHNICAL INFORMATION AND GUARANTEED TECHNICAL
INFORMATION FOR SUPPLY OF PORCELAIN HT & LT GUY INSULATORS.**

PART-'A'

Bidder has to confirm following important requirement.

SR. NO.	PARTICULARS	CONFIRMATION																					
		HT	LT																				
01	Type & Designation a) HT Type C of Table-I of IS-5300/69 Fig-3. b) LT Type B of Table-I of IS-5300/69 Fig-2.	Yes --	-- Yes																				
02	Overall Dimensions <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">HT</td> <td style="text-align: center;">LT</td> <td></td> <td></td> </tr> <tr> <td>Length</td> <td style="text-align: center;">140mm</td> <td style="text-align: center;">110mm</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td>Diameter</td> <td style="text-align: center;">85mm</td> <td style="text-align: center;">75mm</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> <tr> <td>Cable hold</td> <td style="text-align: center;">25mm</td> <td style="text-align: center;">22mm</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">Yes</td> </tr> </table>		HT	LT			Length	140mm	110mm	Yes	Yes	Diameter	85mm	75mm	Yes	Yes	Cable hold	25mm	22mm	Yes	Yes	Yes Yes Yes	Yes Yes Yes
	HT	LT																					
Length	140mm	110mm	Yes	Yes																			
Diameter	85mm	75mm	Yes	Yes																			
Cable hold	25mm	22mm	Yes	Yes																			
03	Minimum failing load HT 88KN LT 53 kN	Yes --	-- Yes																				
04	Colour of insulator. HT Brown LT White	Yes --	-- Yes																				
05	Tolerance of insulator. as per IS-5300/69 (2nd reprint March-81)	Yes	Yes																				
06	Dry power frequency/withstand HT- 27 KV LT -22 KV	Yes --	-- Yes																				
07	Wet power frequency withstand HT- 13 KV LT- 9 kv	Yes --	-- Yes																				
08	Marking on insulator UGVCL, Name of manufacturer, Year and Min. failing load.	Yes	Yes																				
09	Packing of insulator as per Clause No. 7.2 under heading packing.	Yes	Yes																				

Signature & Seal of Tenderer.

Date:

UGVCL/SP/II//HT-LT STAY INSULATOR

PART-'B'

BIDDER HAS TO FURNISH BELOW MENTION DETAILS ABOUT MATERIAL.

01. Type of firing the insulator.
02. Details of test conducted on raw materials.
03. Quality assurance plan which are being implemented.

Signature & Seal of Tenderer.

PART-'C':**ENCLOSURES :**

Bidder has to enclose following documents and has to confirm for the same.

Sr.No.	Particulars	Confirmation
1.	2 Nos. (Two) of sample for HT < Guy Insulators to be sent with tender.	Yes
2	Type test certificate covering all the tests as per Cl.No. 6.2 of specification under heading type test from Govt. approved laboratory.	Yes
3	List of Plant & Machinery	Yes
4	List of Testing equipments	Yes
5	List of orders pending/executed atleast for past two years for the items offered	
	a) With GEB / DISCOM's	Yes
	b) With the purchases other than GEB / DISCOM's	Yes

PART-'D'

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

Signature & seal of Tenderer.

Signature & Seal of Tenderer.

Date:

UGVCL/SP/II//HT-LT STAY INSULATOR

SPECIFICATION FOR L.T/H.T GUY INSULATORS :-

1. SCOPE :-

This specification covers the details of the Guy (Strain) insulators Porcelain White/Brown glazed insulators suitable for G.I.Stay Wire 7/3.15mm and to supply to any Regional Store within the territory of Gujarat State.

2. APPLICABLE STANDARDS :-

IS-5300/1969 (Second Reprint March-1981) and its latest amendment if any.

3. GENERAL REQUIREMENT :-

- 3.1 The porcelain shall be sound and free from defects, thoroughly verified and smoothly glazed.
- 3.2 The glazes, shall be (Brown colour for type 'C' of Table of IS-5300/69 Fig-3 and 'White' colour for type 'B' of Table of IS-5300/69 Fig.2, except the parts on which the porcelain is supported during firing, which may please be left unglazed, all other surfaces of the insulators shall be effectively glazed.
- 3.3. The design of the insulators shall be such that stresses due to expansion and contraction in any part of the insulator shall not lead to deterioration.
- 3.4 The insulator shall be in one piece.

4. BASIC INSULATOR CHARACTERISTICS :-

The test voltage of the insulators shall be as per IS-5300/69 (Second reprint March-1981)

NOTE :- The withstand and flashover voltages are referred to the references atmospheric conditions.

5. MECHANICAL FAILING LOAD :-

- | | |
|---|-------|
| 1. Type 'B' of Table-I of IS-5300/69 Fig.2. | 53 KN |
| 2. Type 'C' of Table-I of IS-5300/69 Fig.3. | 88 KN |

6. TESTS :-

The Insulator shall comply with the following routine, type and acceptance tests as per IS : 5300 (Second revision Amendment No. 1 & 2).

Signature & Seal of Tenderer.

Date:

UGVCL/SP/II//HT-LT STAY INSULATOR

6.1. Routine Test :-
Visual Examination

6.2. Type Test :
The firm shall submit the type test report from Govt. approved laboratory not more than five years old along with offer. The following type tests are to be carried out on sample in the order mentioned below as per IS 5300/69.

- a) Visual examination.
- b) Verification of dimensions.
- c) Dry one minute power frequency withstand test.
- d) Wet one minute power frequency withstand test.
- e) Temperature Cycle test.
- f) Mechanical strength test
- g) Porosity test.

NOTE :- The identification marks of firm provided on the insulator should be invariably mentioned in the type test certificate.

6.3. Acceptance Tests :- (to be conducted in the following order)

- a) Visual examination.
- b) Verification of dimensions.
- c) Temperature Cycle test.
- d) Mechanical strength test.
- e) Porosity test (Applicable only to HT Guy Insulator Type-C).

7. Marking :-

7.1 Each insulator shall be legibly and indelibly marked to show the following.

- a) Name or Trade mark of manufacturer.
- b) Year of manufacture.
- c) UGVCL
- d) Minimum failing load in KN.

7.2 Marking on porcelain shall be applied before firing.

Packing :-

Each Insulators should be wrapped with dry grass. This shall be then packed in either polythene or double gunny bags. No. of insulator should not be more than 50 Nos. per bag for type 'B' and 30 Nos. per bage for type 'C'.

Signature & Seal of Tenderer.

Date:

UGVCL/SP/II//HT-LT STAY INSULATOR