



**ORISSA POWER  
TRANSMISSION CORPORATION LIMITED  
Janpath, Bhubaneswar-751022,Orissa.**

**CORRIGENDUM-I TO NOTICE INVITING TENDER NO. 47/2011-12  
(PACKAGE-I)**

& Bid Document No. Sr. G.M-CPC-TENDER-INSULATOR- 56 /2011-12  
(PACKAGE-I)

:For supply of Disc Insulators.

**(A)** Due date of selling and opening (Techno-commercial -Part-I) of the  
aforesaid Tender is extended as indicated below.

Tender papers shall be sold up to 06.09.2011 and last date of receipt of bid  
document on 07.09.2011 up to 1:00 PM & Date of Opening of the Tender  
(Part-I) on 07.09.2011 at 3.30 PM.

**(B)** For Detailed CORRIGENDUM-I & Clarification visit OPTCL website  
<http://www.optcl.co.in>.

All other Terms and condition of the Tender shall remain unaltered.

Contact person: Sr. G.M,CPC,1<sup>st</sup> Floor Multistoried Building, Bhoinagar,  
Janpath, Bhubaneswar.(Tel:0674-2541801 & Fax:0674-2542964).

**Sd/-  
Sr. G.M,CPC,OPTCL**



**ORISSA POWER TRANSMISSION CORPORATION LIMITED**

(A Government of Orissa Undertaking)

Registered Office: Janpath, Bhubaneswar-751022

OFFICE OF THE SENIOR GENERAL MANAGER (CPC)

Telephone No.0674-2541801

Fax No.0674-2542964

**CLARIFICATION:I  
CLARIFICATION TO THE TENDER NOTICE NO. 47/2011-12  
(PACKAGE-I)**

**Tender Specification: Sr. G.M, CPC-TENDER-INSULATOR-  
56/2011-12**

**REF: SECTION-IV (TECHNICAL SPECIFICATION): CL. No. 3.1.2 & CL. No. 4.6 (a) & (b). and GTP for 90 KN, 120 KN & 160 KN.**

**The above clause may be read as indicated below:-**

**(A) 3.1.2 PRINCIPAL PARAMETERS OF THE DISC INSULATORS:-**

| Sl. No. | Type of String.    | Size of disc. Insulator (mm) | Minimum creepage distance of each disc (mm), | No. of standard discs<br>132/220 KV | Electro-mechanical strength of insulator string fittings (KN) |
|---------|--------------------|------------------------------|--|-------------------------------------|---|
| 1.      | Single suspension  | 255 x 145                    | 320  | 1x9/1x14                            | 90 KN Normal Disc Insulator                                   |
| 2.      | Double suspension. | -do-                         | -do-   | 2x9/2x14                            | 90 KN Normal Disc Insulator                                   |
| 3       | Single suspension  | 255 x 145                    | 430  | 1x9/1x14                            | 90 KN Antifog Insulator                                       |
| 4       | Double suspension. | -do-                         | -do-   | 2x9/2x14                            | 90 KN Antifog Disc Insulator                                  |
| 5       | Single Tension     | 280x145                      | 430  | 1x10/1x15                           | 120 KN Antifog Disc Insulator                                 |
| 6       | Double Tension     | -do-                         | -do-   | 2x10/2x15                           | 120 KN Antifog Disc Insulator                                 |
| 7       | Single Tension     | 305x170                      | 475  | 1x10/1x15                           | 160 KN Antifog Disc Insulator                                 |
| 8       | Double Tension     | -do-                         | -do-   | 2x10/2x15                           | 160 KN Antifog Disc Insulator                                 |

**(B) 4.6 DIMENSIONAL TOLERANCE OF INSULATOR DISCS:**

It shall be ensured that the dimensions of the disc insulators are within the limits specified below:

## a) Diameter of Disc (mm)

|                    | Standard. | Maximum   | Minimum   |
|--------------------|-----------|-----------|-----------|
| 90 KN Disc/ 120 KN | 255/280   | As per IS | As per IS |
| 160 KN Disc        | 305       | As per IS | As per IS |

b) Ball to Ball spacing  
Between Discs (mm)

|                    | Standard. | Maximum   | Minimum   |
|--------------------|-----------|-----------|-----------|
| 90 KN Disc/ 120 KN | 145       | As per IS | As per IS |
| 160 KN Disc        | 170       | As per IS | As per IS |

**(C) GUARANTEED TECHNICAL PARTICULARS:  
FOR NORMAL DISC INSULATORS**

| Sl. No. | DESCRIPTION  | 90 KN         |
|---------|--|---------------|
| 1.      | Manufacture's name & address   |               |
| 2       | Type of Insulator  | Ball & socket |
| 3       | Size of ball & shocket   | 16B           |
| 4       | Dimensions   |               |
| (a)     | Disc diameter  | 255           |
| (b)     | Unit spacing   | 145           |
| (c)     | Creepage distance of the single insulator-mm   | 320           |
| 5       | Electro-mechanical strength of single insulator-kN   | 90            |
| 6       | Materials of shell   | Porcelain     |
|         | <b>Electrical value</b>  |               |
| 7.      |  |               |
| 7.1     | Power frequency Withstand voltage disc<br>(a) Dry-kV (rms)<br>(b) Wet-kV (rms)                     | 70<br>40      |
| 7.2     | Power frequency flash over voltage single-disc<br>(a) Dry-kV (rms)<br>(b) Wet-kV (rms)             | 75<br>45      |
| 7.3     | Impulse withstand voltage 1.2/50 micro second<br>1. Positive -kV(peak)<br>2. Negative -kV (peak)   | 110<br>110    |
| 7.4     | Impulse withstand voltage 1.2/50 micro second<br>(a) Positive -kV(peak)<br>(b) Negative -kV (peak) | 120<br>120    |

\* Tolerance as per relevant IS (Latest edition).

**(D) GUARANTEED TECHNICAL PARTICULARS  
FOR ANTIFOG DISC INSULATORS**

| Sl. No. | DESCRIPTION   | 90 KN         | 120KN         | 160 KN        |
|---------|---|---------------|---------------|---------------|
| 1.      | Manufacture's name & address  |               |               |               |
| 2       | Type of Insulator   | Ball & socket | Ball & socket | Ball & socket |
| 3       | Size of ball & socket   | 16B           | 20            | 20            |
| 4       | Dimensions  |               |               |               |
| (a)     | Disc diameter   | 255           | 280           | 305           |
| (b)     | Unit spacing  | 145           | 145           | 170           |
| (c)     | Creepage distance of the single insulator-mm  | 430           | 430           | 475           |
| 5       | Electro-mechanical strength of single insulator-kN  | 90            | 120           | 160           |
| 6       | Materials of shell  | Porcelain     | Porcelain     | Porcelain     |
|         | <b>Electrical value</b>   |               |               |               |
| 7.      |   |               |               |               |
| 7.1     | Power frequency Withstand voltage disc<br>(a) Dry-kV (rms)<br>(b) Wet-kV (rms)                    | 70<br>40      | 85<br>50      | 90<br>50      |
| 7.2     | Power frequency flash over voltage single-disc<br>(a) Dry-kV (rms)<br>(b) Wet-kV (rms)            | 75<br>45      | 80<br>45      | 80<br>45      |
| 7.3     | Impulse withstand voltage<br>1.2/50 micro second<br>1.Positive -kV(peak)<br>2.Negative -kV (peak) | 110<br>110    | 120<br>120    | 135<br>135    |

\* Tolerance as per relevant IS (Latest edition).

Other terms and conditions of the contract shall remain unaltered.

Sd/-  
Sr. General Manager,CPC