

IEEMA(PVC)/INST.TR_Polymer Insulator_upto 72.5 KV

Effective from: 1st January 2021

**PRICE VARIATION CLAUSE FOR INSTRUMENT TRANSFORMERS
 USING POLYMER INSULATOR FOR UP TO 72.5 KV**

(Current and Potential Transformers designed for operation on system voltage
 up to 72.5 KV using Polymer Insulator)

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula:

$$P = \frac{P_0}{100} \left(18 + 3 \frac{AL}{AL_0} + 20 \frac{C}{C_0} + 8 \frac{ES}{ES_0} + 10 \frac{FE}{FE_0} + 14 \frac{IN}{IN_0} + 8 \frac{ER}{ER_0} + 4 \frac{TO}{TO_0} + 15 \frac{W}{W_0} \right)$$

Wherein,

P = Price payable as adjusted in accordance with the above formula.

P₀ = Price quoted/confirmed.

AL₀ = Price of LME CSP Average of Aluminium (refer notes)

This price is as applicable on the 1st working day of the month, ONE month prior to the date of tendering.

C₀ = Average LME settlement price of Copper wire bars (refer notes)

This price is as applicable for the month, ONE month prior to the date of tendering.

ES₀ = Price of CRO Electrical Steel Lamination (refer note)

This price is as applicable on the 1st working day of the month, ONE months prior to the date of tendering.

FE₀ = Wholesale price index number for 'Manufacture of Basic Metals' (Base: 2011-12=100)
 (refer notes)

This index number is as applicable for the month, THREE month prior to the date of tendering.

IN₀ = Whole sale price index of Insulator (refer notes)

This index number is as applicable for the month, THREE month prior to the date of tendering

ER₀ = Price of epoxy resin (refer notes).

This price is as applicable on the 1st working day of the month, ONE month prior to the date of tendering.

TO₀ = Price of Transformer Oil (refer notes)

This price is as applicable on the 1st working day of the month, ONE month prior to the date of tendering.





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W_0 = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2016 = 100)

This index number is as applicable on the first working day of the month, **THREE** months prior to the date of tendering.

For example, if date of tendering falls in April 2021, applicable prices of Aluminium (AL_0), Copper (C_0) CRGO (ES_0), Epoxy Resin (ER_0), Transformer Oil (TO_0) should be as on March 2021 and Wholesale price index number for 'Manufacture of Basic Metals', Whole sale price index of 'Insulator' and all India average consumer price index no. (W_0) should be for the month of January 2021.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)/CTPT (R-1)/___ **ONE** month prior to the date of tendering.

AL = Price of LME CSP Average of Aluminium (refer notes)

This price is as applicable on the 1st working day of the month, **ONE** month prior to the date of delivery.

C = Average LME settlement price of Copper wire bars (refer notes)

This price is as applicable for the month, **ONE** month prior to the date of delivery.

ES = Price of CRGO Electrical Steel Lamination (refer notes)

This price is as applicable on the 1st working day of the month, **ONE** months prior to the date of delivery.

FE = Wholesale price index number for 'Manufacture of Basic Metals' (Base: 2011-12=100) (refer notes)

This index number is as applicable for the month, **THREE** month prior to the date of delivery.

IN = Whole sale price index of Insulator (Base: 2011-12=100) (refer notes)

This index number is as applicable for the month, **THREE** month prior to the date of delivery.

ER = Price of epoxy resin (refer notes).

This price is as applicable on the 1st working day of the month, **ONE** month prior to the date of delivery.

TO = Price of Transformer Oil (refer notes)

This price is as applicable on the 1st working day of the month, **ONE** month prior to the date of delivery.

W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2016 = 100)

This index number is as applicable on the first working day of the month, **THREE** months prior to the date of delivery.





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For example, if date of delivery in terms of clause given below falls in December 2021, applicable prices of Aluminium (AL), Copper (C), CRGO (ES), Epoxy Resin (ER), Transformer Oil (TO) should be as on November 2021 and Wholesale price index number for 'Manufacture of Basic Metals', Whole sale price index of 'Insulator' and all India average consumer price index no. (W) should be for the month of September 2021.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)/CTPT (R-1)/_/__ **ONE** month prior to the date of delivery.

The date of delivery is the date on which the Instrument Transformer is notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date including any agreed extension thereto), whichever is earlier.

Notes:

- a) All prices of raw materials are exclusive of GST/CV duty amount and exclusive of any other central, state or local taxes etc. Instrument Transformers manufacturers import major raw materials like Copper, CRGO etc. The landed cost of these imported raw materials includes applicable custom duty but exclusive of modvatable CVD
- b) The details of prices are as under:
 - 1) Price of LME average Cash SELLER Settlement price of Primary Aluminium in US\$ per MT as published by London Metal Bulletin (LME) including Premium for Aluminium Ingot in US\$ per MT is converted in Indian Rs./MT using exchange rate and adding appropriate customs duty.
 - 2) The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars converted into Indian Rupees with applicable average exchange rate of SBI of the month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
 - 3) The price of CRGO Electrical Steel Lamination suitable for Instrument Transformers of rating up to 72.5 KV is the average price as quoted by processing centres of mills and lamination suppliers.
 - 4) The price of epoxy resin (in Rs/Kg) is as quoted by a resin manufacturer for their grade CT 5900 or its nearest equivalent applicable
 - 5) The price of Transformer Oil (in Rs./K.Ltr) is the average price on ex-refinery basis as quoted by primary producers for supply in drums.
 - 6) The wholesale price index numbers for 'Manufacture of Basic Metals' and 'Insulators' are as published by the Office of Economic Advisor, Ministry of commerce & Industry, Govt. of India, New Delhi with base 2011-12 = 100


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IEEMA(PVC)/INST.TR_Porcelain Insulator_upto 72.5 KV

Effective from: 1st January 2021

**PRICE VARIATION CLAUSE FOR INSTRUMENT TRANSFORMERS
 USING PORCELAIN INSULATOR FOR UP TO 72.5 KV**

(Current and Potential Transformers designed for operation on system voltage
 up to 72.5 KV using Porcelain Insulator)

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula:

$$P = \frac{P_0}{100} \left(20 + 3 \frac{AL}{AL_0} + 21 \frac{C}{C_0} + 8 \frac{ES}{ES_0} + 13 \frac{FE}{FE_0} + 10 \frac{IN}{IN_0} + 4 \frac{ER}{ER_0} + 5 \frac{TO}{TO_0} + 16 \frac{W}{W_0} \right)$$

Wherein,

P = Price payable as adjusted in accordance with the above formula.

P₀ = Price quoted/confirmed.

AL₀ = Price of LME CSF Average of Aluminium (refer notes)

This price is as applicable on the 1st working day of the month, ONE month prior to the date of tendering.

C₀ = Average LME settlement price of Copper wire bars (refer notes)

This price is as applicable for the month, ONE month prior to the date of tendering.

ES₀ = Price of CRGO Electrical Steel Lamination (refer note)

This price is as applicable on the 1st working day of the month, ONE months prior to the date of tendering.

FE₀ = Wholesale price index number for 'Manufacture of Basic Metals' (Base: 2011-12=100)(refer notes)
 This index number is as applicable for the month, THREE month prior to the date of tendering.

IN₀ = Whole sale price index of Insulator (refer notes)

This index number is as applicable for the month, THREE month prior to the date of tendering

ER₀ = Price of epoxy resin (refer notes).

This price is as applicable on the 1st working day of the month, ONE month prior to the date of tendering.

TO₀ = Price of Transformer Oil (refer notes)

This price is as applicable on the 1st working day of the month, ONE month prior to the date of tendering.





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The above prices and indices are as published by IEEMA vide regular reference number IEEMA(PVC)/CTPT (R-1)/___ ONE month prior to the date of tendering.

AL = Price of LME CSP Average of Aluminium (refer notes)
 This price is as applicable on the 1st working day of the month, ONE month prior to the date of delivery.

C = Average LME settlement price of Copper wire bars (refer notes)
 This price is as applicable for the month, ONE month prior to the date of delivery.

ES = Price of CRGO Electrical Steel Lamination (refer notes)
 This price is as applicable on the 1st working day of the month, ONE months prior to the date of delivery.

FE = Wholesale price index number for 'Manufacture of Basic Metals' (Base: 2011-12=100) (refer notes)
 This index number is as applicable for the month, THREE month prior to the date of delivery.

IN = Whole sale price index of Insulator (Base: 2011-12=100) (refer notes)
 This index number is as applicable for the month, THREE month prior to the date of delivery.

ER = Price of epoxy resin (refer notes).
 This price is as applicable on the 1st working day of the month, ONE month prior to the date of delivery.

TO = Price of Transformer Oil (refer notes)
 This price is as applicable on the 1st working day of the month, ONE month prior to the date of delivery.

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 This index number is as applicable on the first working day of the month, THREE months prior to the date of delivery.





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b) The details of prices are as under:

1) Price of LME average Cash SELLER Settlement price of Primary Aluminium in US\$ per MT as published by London Metal Bulletin (LME) including Premium for Aluminium Ingot in US\$ per MT is converted in Indian Rs./MT using exchange rate and adding appropriate customs duty.

2) The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars converted into Indian Rupees with applicable average exchange rate of SBI of the month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.

3) The price of CRGO Electrical Steel Lamination suitable for Instrument Transformers of rating up to 72.5 KV is the average price as quoted by processing centres of mills and lamination suppliers.

4) The price of epoxy resin (in Rs/Kg) is as quoted by a resin manufacturer for their grade CT 5900 or its nearest equivalent applicable.

5) The price of Transformer Oil (in Rs./K.Ltr) is the average price on ex-refinery basis as quoted by primary producers for supply in drums.

6) The wholesale price index numbers for 'Manufacture of Basic Metals' and 'Insulators' are as published by the Office of Economic Advisor, Ministry of commerce & Industry, Govt. of India, New Delhi with base 2011-12 = 100

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