

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED**

(A Government of India Enterprise )

**REPLY TO QUERIES-Dated 31.1.2013**

**FOR SYSTEM WORKS CONTRACT PACKAGE**

**NCB NO. : HQ/SYS/DB/NKWD-DGO**

**PRE-BID QUERIES**

<b>S. No.</b>	<b>Part</b>	<b>Sec</b>	<b>Volume</b>	<b>Pg. No.</b>	<b>Item</b>	<b>Clause</b>	<b>Relevant Abstract from Tender</b>	<b>Query / Clarification/Justification</b>	<b>Reply to Query</b>
270	3	VII	--	22	Adjustment for changes in cost	13.8	<p>The whole sale price index number for 'iron &amp; steel' is as published by the office of Economic Advisor, Ministry of Industry, Govt of India, New Delhi with base 1993-94 =100. This whole sale price index number is being published weekly on provisional basis. However, the same gets finalized after eight weeks and is normally available after two month.</p> <p>Therefore, we are considering in our calculations this final index for the first Saturday of the month two months prior to the date of which the prices of other raw materials such as A1, IM are published for the corresponding month.</p>	<p>The whole sale price index number for 'iron &amp; steel' has been discontinued by the office of Economic Advisor, Ministry of Industry, Govt of India, New Delhi and hence no longer available. We request to change the above mentioned Index number to the whole sale price index number for 'Ferrous metals' as published by the office of Economic Advisor, Ministry of Industry, Govt of India, New Delhi with base 2004-05 =100</p>	Please refer Addendum no. 6

271	3	VII	--	20	Adjustment for changes in cost	13.8	<p>Price Variation Clause for Traction Power Transformer/Auto Transformers complete with all accessories and components(Cost centre : C 5.1, C 5.2, C 6.1 &amp; C 7.1)</p> <p>.....</p> <p><b>TBO = Price of Transformer Oil Base Stock</b> This price is as applicable on the 1st working day of the month, two months prior to the date of tendering.</p> <p><b>WO = All India average consumer price index number for industrial worker, a published by the Labour Bureau, Ministry of Labour, Govt of India(Base 1982=100).</b></p> <p>.....</p> <p>.....</p> <p><b>TBn = Price of Transformer Oil Base Stock</b> (refer notes) This price is as applicable on the 1st working day for the month, two months prior to the date of delivery.</p>	<p>It is requested to changes the Indices as per IEEMA circular 037/DIV/TRF/05 dt. 06 Feb 2009 &amp; 223/PVC/CLAR/02 dt. 18 Oct 2010, due to following reasons:</p> <ol style="list-style-type: none"> <li>1. (TB) Transformer Oil Base Stock index has been discontinued and Transformer Oil index (TO) is being circulated by IEEMA now. It will be impossible to arrive at PV without availability of indices.</li> <li>2. (W) All India average consumer price index: the index being circulated now are with base 2001=100.</li> <li>3. (IS) has been changed to 'Ferrous Metals' with base 2004-05=100</li> <li>4. Lag period of copper prior to delivery has been reduced to 2 months.</li> </ol> <p>Relevant IEEMA circulars are attached for reference.</p>	Please refer Addendum no. 6.
272	3	VII	-	18	Adjustment for Changes in Cost	13.8	<p>Values of a, b, c and d are as under for Cost center C1, C9, C10, C11, C12 of electrical price schedules and as well as for Signalling &amp; Telecommunication price schedules:</p> <p>Fix Component (a) 0.30 Labour (b) 0.30 Material c) 0.25 Fuel (d) 0.15</p>	<p>The value of the fixed Component (a) and the Labour Component (b) are too high and are usually in the order .15 and .10 respectively. Hence, please revise the values of a, b, c and d as follows:</p> <p>Fix Component (a) 0.15 Labour (b) 0.10 Material c) 0.60 Fuel (d) 0.15</p>	Provisions in the Bid Document shall prevail.

273	2	V(B)	9	Annexure-XIII	Specification for Transformer	Cl. No. 9 of Pg 7/61	<p>Percentage of impedance voltages, main/primary winding and teaser/primary winding at 30 MVA based at principal tapping is asked as:</p> <p>%Z = 11-13%</p> <p>%Zt = 12 +/- 1.2%</p> <p>%Zf = 12 +/- 1.2%</p> <p>%Zn = -0.2 to 3.5%.</p> <p>Definition of Z,Zt,Zf &amp; Zn is required.</p> <p>In earlier specification of 54 MVA Scott trf. impedance definition has been provided in the specification and also Base MVA was 54/4 i.e 13.5 MVA for guaranteed impedance. For reference,54 MVA have been attached:</p> <p>Percentage of impedance voltages measured &amp; calculated@13.5 MVA as per definition as per Annexure-1</p> <p>%Zt = 12+/-1.2%</p> <p>%Zf = 12 +/-1.2%</p> <p>%Zn= -0.2% to 3.5 %</p> <p>Please confirm so that we can verify that our design is in the compliance with the revised specification issued by you.</p>		Please refer Addendum No.6
274	2	V(B)	9	Annexure-XIV	Rated Power 8MVA (ONAN)	5.1.7	We understand this rated power is Line capacity of auto transformer and the self capacity of auto transformer is 4MVA. The difference between line capacity and self capacity is shown in the attached document "ECS-01950"		Provisions in the Bid Document shall prevail.
275	2	V(B)	9	Annexure-XIV	Ability to withstand short circuit current Thermal ability 5s	5.1.14	We propose this thermal withstand ability shall be 2s based on the IEC standard.		Provisions in the Bid Document shall prevail.

276	2	V(B)	9	Annexure-XIV	Flux density at rated voltage and Frequency Shall not exceed 1.55T	5.1.15	We propose this clause shall be deleted because the secondary voltage of traction transformer should be stable thanks to the tap changer on the primary side. Thus it is not necessary to restrict flux density of auto transformer. It would rather lead unreasonable transformer.		Provisions in the Bid Document shall prevail.
277	2	V(B)	9	Annexure-XIV	Current density in the windings at rated current Shall not exceed 2.5A/mm <sup>2</sup>	5.1.16	We propose this current density shall not exceed 5.0A/mm <sup>2</sup>		Provisions in the Bid Document shall prevail.
278	2	V(B)	9	Annexure-XIV	Bushing Highest voltage for equipment Um 52kV Minimum creepage distance 1300mm	5.1.18	Auto Transformer has neutral bushing, hence these bushing only needs ; Highest voltage : 30kV Creepage : 920mm		Provisions in the Bid Document shall prevail.

279	2	V(B)	9	17	Proven design & cross acceptance criteria	4.4.2		Request for adding the following clause.: " Scott connected transformers and Auto Transformers, the contractor can procure the equipment from sources who appear in the RDSO approved vendor list for Scott connected transformers and Auto transformers. Such sources, if have not manufactured Scott connected transformers or Auto transformers of similar rating, shall have to develop the design and detailede specifications for these items based on draft specification/functional requirement if available, for approval of the Employer. Such sources shall also need to carry out the prototype testing on the 1st unit of each rating of transformer manufactured."	Provisions in the Bid Document shall prevail.
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