

POWER GRID COMPANY OF BANGLADESH LIMITED

DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PATUAKHALI (PAYRA) -
GOPALGANJ 400KV TRANSMISSION LINE ON TURNKEY BASIS

CLARIFICATION NO. 3

Some more queries have been received after issuance of Clarification No. 2 reply of which is given below:

| Volume 2 of 3 | |
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| Query 1: | <p>As per original Technical Specification Solar Absorption Co-efficient was 0.5 and Emissivity co-efficient was 0.5 that meets with IEC 61597. As per addendum no. 1 issued on 28th Oct 2016 by PGCB wherein Emissivity is 0.7 and Absorptivity is 0.9 mentioned. Kindly note that to achieve Emissivity = 0.7 and Absorptivity = 0.9, conductor surface needs to be "Non Specular Finish". The change in Emissivity and Absorptivity as per IEEE 738, seems beneficial because the desired ampacity of 2096 amp. will be achieved at 167Deg. and will help to reduce AC Resistance losses. However, to achieve the Emissivity = 0.7 and Absorptivity = 0.9, the conductor surface will be converted in to "Non Specular Finish" by special treatment on surface as per ASTM B 979-12. (Copy attached).</p> <p>We wish to confirm from PGCB that "Non Specular Finish" ACCC conductor will be accepted by PGCB due to change in Emissivity and Absorptivity criteria as Conventional Specular Finish conductor will not meet revised Emissivity = 0.7 and Absorptivity = 0.9 requirements.</p> |
| Answer 1: | <p>Maintaining the emissivity 0.7 and absorptivity 0.9 is not mandatory during supply. Specular conductor will also be acceptable.</p> |
| Query 2: | <p>Kindly refer to the Tender Volume-2 of 3, Section 8 "Towers" appendix 8-12 where it is mentioned that the contractor shall need to do the Type Testing of 4DL, 4D1, 4D25 & 4D45 along with 9 m extension. However subsequent to clarification & addendums and final designing done for the above tower it is now observed that due to the Limitation Imposed on the base width of these towers as well as Wind Speed Criteria, the resulting foundation reactions for all the tower types are worked out to be more than 200% of any similar previous transmission line existing in the country. Out of all, the foundations reactions of tower type 4D45 & 4DT6 are way beyond the Testing Limits of any Tower Type Testing Station across the world as per our information. Hence, we would like to submit that practically the type testing of 4D45 & 4DT6 towers would not be taking place during contract execution due to the above limitation. In view of the above, we propose to kindly waive off the Type Testing of the 4D45 which has been asked to be type tested as per the bidding document. As such, Type testing of 4DT6 has not been asked in the bidding document and hence is deemed to be waived off in view of the above.</p> <p>We hereby seek your kind response on the above clarification to have the clarity on the type testing of the subject towers. Please clarify the same.</p> |
| Answer 2: | <p>Provision of testing for tower type 4D45 is deleted through Addendum. Bidders/Contractors are reminded that Annex 8-8 shall require to be complied for non-load tested towers.</p> |

The above mentioned clarifications will form part of the bidding documents.

