**Tender for Providing HVSC system of 6 MVA**

**for the ships calling at the International Cruise Terminal of Cochin Port Authority**

**Clarifications to Pre Bid Queries dt:03/04/2023**

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| Sl.No | Name of the Firm | Query | | Reply to the query |
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| 1 | Bidder 1 | 1. Tender due date may be extended to 31st March 2023 | | Tender submission date extended till 13/04/2023 |
| 2 | Bidder 2 | As the scope is vast , the due date may be extended to 10th April | | Tender submission date extended till 13/04/2023 |
| 3 | Bidder 3 | 1. Tender Document does not specify any product related technical specifications for Power Frequency Converters, Transformers etc. 2. The technical Specification of all the products may be provided   The due date may be extended to 30th April 2023 | | Since the contract is under EPC mode the contractor shall Design , Engineering, Supply, Installation, Testing, Commissioning of 6 MVA High Voltage Shore Connection for the International Cruise vessels calling at Ernakulam Wharf as per the technical specification mentioned in the tender |
| 4 | Bidder 4 | Submitted MoM and request alternation/ remarks/ comment. Since EPC project that involves various stake holder, need time to work upon the same, hence, Tender due date may be extended for 1 month from 20/03/2023 | | Tender submission date extended till 13/04/2023 |
| 1. Fault current requirement for the 11KV panels which are at 110 KV substation | 25kA | Agreed |
| 1. Length of Berth Q8andQ9 | 200metres | 200 metres each |
| 1. Max Length of Ship | 265 metres | Agreed |
| 1. Length from proposed facility/SS to Berth | 30 metres | Agreed |
| 1. Ownership of the cable route land from 110 KV substation to proposed Substation at Ernakulam Wharf. | Land belongs to CoPA only. Required permission, if any shall be taken by CoPA only. | Land belongs to CoPA and hence no permission is required from any other authorities. |
|  | 7)Type of Transformers to be selected Dry/oil cooled | As per vendors design. | Agreed |
| 8)Location of the SCADA System | SCADA shall be installed in the proposed substation near Berth. | Agreed |
| 9)Moving arrangement of the cable management system -Tyre/Track | CMS shall be tyre mounted and cable drum shall also be mounted on movable CMS system. | CMS shall be tyre mounted and cable drum shall also be mounted on movable CMS system with sufficient length of cable |
| 10)Engagement of consultant for the proposed project | Engagement is under process | Agreed |
| 11) Tender specify requirement of stepping down 11KV voltage to 433V for convertor operation. As per our understanding convertor voltage design can be varied from manufacturer to manufacturer. This should be as per vendor design only. We shall ensure intake of supply at 11KV and output at 11KV/6.6KV with required 50 and 60 Hz | To be confirmed CoPA | Agreed, as per the design |
| 12) In the layout shown on the page two 11KV breakers shown in Series for by pass supply before transformer. As per our understanding, they are at same substation and there is no equipment in between. They are not required. | To be confirmed CoPA | HT Panels shall be of draw out type |
|  | 13)In the layout shown on the page bus coupler in the incoming 11KV panel not shown. Please confirm whether same is needed. | To be confirmed CoPA | For flexibility and isolation of HT supply, bus coupler shall be provided |
|  | 14)Tender Specify requirement of Active front End frequency convertor. As per our under standing same is required only in case power is needs to be feed back to source (Regeneration). Please clarify the same. Let us know in case there is any load which is planned to connect which can feed power back to the source. | To be confirmed CoPA | Tender condition prevails. Frequency converter shall be designed accordingly as per IEC/IEEE80005-2 |
| 15)THD requirement for the convertor | As per IEC requirement. | Agreed |
| 16)Requirement of specific protocol for communication between HVSC and ship | To be confirmed by CoPA | As per IEC/IEEE80005-2 |

**The stipulated Completion/Contract Period of 12 months (mentioned as Item (I) of Bid Information sheet in NIT ) is revised to 10 months.**

**This corrigendum forms part of the tender document.**

**CHIEF MECHANICAL ENGINEER**