

2nd set of Consolidate Prebid query reply, Open Tender No TPCODL/P&S/1000000723/24-25,SITC Work of E-House at Cuttack, Odisha,		
S.NO.	Points to clarify.	Remarks
1	For 11kV AIS, Control wiring of the PT shall be provided 1.5Sqmm as per OEM standard practise. Same is being accepted by TPCODL in past executed job.	Accepted
2	For 11kV AIS, As per previous executed supply reference all circuit shall be provided as 2.5Sqmm.	Accepted. For CT with secondary 5Amp. 4sqmm is required
3	For 11kV AIS, Earth busbar shall be provided as 50x6 Cu. as per type tested design.	PL submit supporting calculation
4	For 11kV AIS, Earthing of relays, LED & communication equipments shall be done through flexible earth wire as per OEM's standard practise. Seprate earth busbar will not be provided.	Accepted
5	Please provide the specification for auxiliary transformer.	Shall be shared
6	Please accpet the Alternate make for auxiliary relay like AVANA make or other alternative make for ontime delivery.	Aux Relay shall be GE Make
7	Please provide detailed SLD & IO List for 33kV. For 11kV , TS to be followed.	For GIS: Relay 38DI 16DO (for Feeder Protection) 16DI / 10 DO for (Xmer Differential) For AIS: Same as TS DI/DO List shall be shared in detailed Engineering
8	Please provide the model no. of TMU to be mounted in 33kV GIS.	1. A-eberle REG-DA Relay / 2. ABB RET 670 RET670*2.2-F00X00-A0001000000000000000- B00000000000000000000000000000000-C22002200002100010011000000- D22210010-T0000-E00100-F4-S0-G620-H00000000222-K00000000-L1100- M0301111-P00000000000000000000-B1X0-BE-CA-B-A16-CC1C1ARXXXX- PPXXXXXXXXXX A means: Auxiliary Power Supply Module, 24-60 VDC C1 means: BIM 16 Inputs, RL48-60 VDC, 50mA
9	Please clarify the requiremnet of 33kV & 11kV Surge Arrestore i.e indoor or outdoor with DP.	Both designs are accepted.
10	Plot plan is required for identifying equipment location.	PI plan for a site Visit
11	Please confirm the free issue equipment list as mentioned in specification i.e RTCC, FO Patch Panel, Protocol gateway, IO module , router etc.	Please Ignore this clause mentioned in TS. RTCC is not applicable as TMU will be supplied in 33KV Panel instead. Apart from Power Transformer all items are in Suppliers scope
12	Please provide the update architecture for SCADA system.	Already mentioned in TS
13	11kV & 33kV Cable Size & run to be provided for cable being supplied by customer.	Since Cable & Terminations are in Supplier's scope. They need to calculate cable size & run based on Ampacity & Laying Conditions (Typical Sizes are 400Sqmm, 630Sqmm,1000Sqmm)
14	As per price schedule- S No. 4 , Service Membership- 5 years, We understand that this membership is for transformer health monitoring- where we will be offering our Eco Structure Transformer Expert- Please confirm.	This is not required
15	Other Point	Transformer Health Monitoring System & its subscriptions are not required. All bidders to note that Apart from Power Transformer Supply, All Design Engineering, liaisoning & SITC is in supplier's scope.

16	"We would like to clarify here that we are offering a SF6 Gas Insulated switchgear with touch proof solid silicone insulated Busbar which is outside SF6 Gas compartment. Hence, in case of Busbar outside gas compartment with touch proof solid silicone insulation this point is not applicable. If in case of Busbar inside Gas: As per our standard type tested product we have a separte compartment for CB & Cable Termination however BB compartment shares common gas compartment for each bus section as our TT design offers panel to panel coupling inside SF6 gas."	In 33KV GIS switchgear, Busbar chamber with SF6 or solid insulation is acceptable but the design has to be fully type tested. In case of solid insulation the overall properties of solid insulation & the life etc. shall not be less than as of SF6 insulated bus bar arrangement. Overall dimensions of the bus bar chamber shall not be oversized. The switchgear/Breaker compartment shall remain SF6 type.
17	With reference to the trailing mail, we would like to highlight that Busbar with Solid Insulation is not a full GIS it is a Hybrid GIS, Bus- bar with Gas insulated is only a full GIS and both are distinct technology. Acceptance of different busbar technologies creates difference in the tender evaluation from both technical and cost perspectives. In case of a GIS with solid insulated busbar, partial elimination of SF6, removal of dedicated sealed busbar compartment, and associated reductions of other parts result in a relatively inexpensive design of Mixed Technology GIS when compared to a traditional GIS. Further, following technical compromises need to be accepted when opting for a solid insulated busbar. Busbars in gas insulation are naturally more resistant to temperature swings due to SF6's fluid nature inside a sealed tank. In contrast, solid insulated busbars exposed to external conditions will deteriorate over time due to ageing associated with direct contact with the conductor and temperature swings. CEA letter defining the definition of full GIS and Hybrid GIS is also attached for your reference which clearly states the difference between full GIS and Hybrid GIS. Therefore, any tender which does not differentiate between the two technologies and accepts them simultaneously will inadvertently result in an incorrect and unfair comparison. For the sake of uniformity and to maximize the tender participation, we recommend considering the gas insulated busbars only which has been offered in India by all major OEMs with proven installed bases.	Tender Specification and prebid query reply will stand