

**TECHNICAL PRE-BID CLARIFICATION OF POWER DISTRIBUTION SYSTEM OF BANAS OIL UNIT, BADARPURA ON
DATED 07.02.2024**

Bid Reference No.- BNS/BOU/PCC/2024/01

Sr. No	Page No.	Tender Clause	Clarification required by Bidders	Final clarification provided by purchaser to the bidders to be considered for submission of the commercial bid
1	27	Sr.No.1 Line no-2	It should be 6 months, 1 month is required for Drawing approval, 2-3 months for manufacturing of item & 1 month for testing commissioning	Agreed, Consider project completion period as 6 Month
2	66	line no 2-3	Kindly provide side Layout/ drawings for further clarification.	We will provide site layout drawings of our existing PCC setup. However, detailed drawings of the SLD and substation layout will be prepared by the supplier
3	66	line no 25-26	During reconnection additional cable alongwith Staraight through jointing kits may be required, these quantites are not given in SOQ.	The job of dismantling the existing PCC and reconnecting the existing feeder will be within the scope of the supplier. However, we will provide details of the existing feeder cable runs and sizes for your consideration. The price shall be considered in SOQ no. 11."
4	67	line no-6	DG set shall be used for Supplier/Contractor for their tools only(if required) , BANAS will not use this DG Set, Please clarify	The DG set is required only for carrying out your works during shutdown time. Banas shall not use this DG set. Please refer to the battery limit on page 110 for details."
5	69	line no-6, Sr.No.1	Transformer is INDOOR/OUTDOOR please clerify	Transformer shall be consider as outdoor Type
6	69 & 74		Diffreent efficiency level are mentioned at diffrenet places, Please clarify Tranformer efficiency level shall be level-2, As per IS- 1180, With Latest amenements	Transformer Efficiency level shall be consider as minimum Level-2 as per IS-1180 with latest ammendment.
7	69	Sr.No. 13, 14, 15	Different losses are mentioned at different places, Please clarify Tranformer losses as per level-2	Losses consider shall be as per minimum Level-2 efficiency as per IS-1180
8	71	line no7	Different LV Voltage are mentioned at differnt places, Please clarify Tranformerlv Volatge?, line no7 says LT volatge of tranformer is 433Volts however line no-21 says 415Volts,	Transformer Voltage shall be consider 11 KV/433 v.
9	85	line no7	How many Runs to be given for Capacitor panel ? And Item of Capacitor Cable is not specified in SOQ?	The supplier shall consider 2 x 300 sq.mm Al. XLPE 1.1 KV power cables for each APFC panel (approximate distance - 20 meters). The item rate shall be considered in SOQ no. 05
10	99	line no29-32	Copper & G.I. Earth strip quantities are not given in SOQ for measurements?	Earthing is a LOT item so It will be consider as per site requirments.
11	100	line no 13	Cable trays quantities & Sizes are not given in SOQ for measurements?	Earthing is a LOT item so It will be consider as per site requirments.
12	100	line no 13	APFC panel KVAR rating is not defined, pldease clarify KVAR rating and No of steps to be taken?	Consider 400 Kvar APFC panel for each Transformer.
13	107- 109	SOQ	BATTERY CHARGER & BATTERY-Qunaties are not given in SOQ?	This Battery charger shall be use for controlling Transformer Online Tap Changing through RTCC panel, so quantity shall be consider as per design requirement

14	107	SOQ Sr No-1	What is make of VCB ? What is the make of HT PANEL? Please provide HT Panel drawings ?	Already mentioned in the Tender documents, Refer page no- 67-68
15	107	SOQ Sr No-1	UP-Gradation of existing 11KV HT Panel- *1500KVA outgoing breaker CT 150A modify to 200A for 2500 KVA Transformer.We presume 2 Nos Outgoing Breakers to be modified ? Please clarify?	Agreed
16	75	Transformer	Transformer Losses will be measured at Trafo manufacturer's premises and not at ERDA. Temp rise test is not a routine test and not to be carried out.	Agreed.
17	87	PCC	Interconnection- Main busbar to individual unit with copper strips, Pls Clarify. Connection to individual units will be with Al. busbar?	Connection of PCC busbar is Al. but for connection of Busduct with busbar is Cu. With aluminium clading.
18	91	PCC (Interlocking)	Two DG Sets are consider in interlocking table but in Feeder table only one DG set as per specification please clarify?	The supplier shall consider only one DG set feeder as per the given specification. However, supplier advised to consider one more bus coupler feeder with a similar rating (4000 A) in the panel design to ensure that DG set power backup is provided on the failure of either TR-1 or TR-2
19	92	PCC	Which to be considered Analogue or Digital. Voltmeter only in Incomer?	Supplier advised to consider Digital Amp. & Volt Meter in both Transformer Incomer feeder.
20	92	PCC	AMF facility in both DG and Buscoupler ACB. DG breaker to be manual pls clarify?	AMF facility is not a required, DG breaker shall be consider only EDO type.Also Suppllier shall consider MFM meter on DG set I/c (PCC side)for controlling demand. To On/OFF non essential load for the same multiplication relay for contact to MFM.
21	98	Earthing	Earthing is limited to equipment to be supplied/existing under this tender till PCC and APFC panels. Earthing of balance equipment like motors, other panels/boxes is not covered	The supplier shall consider earthing for Transformer, APFC, PCC, etc. Earthing for motors and other equipment is not part of this tender
22	98	Transformer Earthing	For Transformer which type of earthing consider (Cu.) chemical or Plate?	Consider chemical earthing.
23	101	Measuring Instrument	AT some location in the tender measuring instrument are mentioned as 96x96 Analogue and some places 144x144. Pls clarify the size and type of measuring instrument.	Consider only Digital type energy meter.
24	116	Major Responsibilities of Contactor & Purchaser	Supply and Installation of Fire Detection and Alarm system..... Supply of Fire extinguishers...	Not in a Supplier Scope.
25	83	PCC	Some of the authorised partner of Schneider and abb and Siemens manufacturing the panel as per IEC 61439 but they don't have the approval from the CPRI and some of the panel manufacturers having a CPRI certificate but they don't provide the panel as per IEC 61439.so kindly reply on the same problem.	Supplier shall consider Total type tested PCC as per IEC 61439 also design verified by OEM/Authorised channel partner. Supplier shall be provide a Design & drawing submission for approvals with stamp & sign from OEM.Prior to client inspection,OEM inspection report shall be submit by vendor.

26	66	EXISTING VCB	KINDLY CONFIRM CT RATIO AS PER 2500KVA TRANSFORMER	Please refer Page no : 68
27	78	BATTERY CHARGER	BATTERY WITH BATTERY CHARGER NOT IN BOM	Battery and Battery charger are required for controlling RTCC, LT PCC controls, interlocks, and ACB spring chargers. It is a part of the transformer (page 69), as already mentioned in the technical specifications details. The operation strategy is outlined on pages 78 and 79
28	109	Shutdown Period	SHUTDOWN PERIOD FOR ALL ITEMS ERECTION AND DURING SHUTDOWN ANY IMCCOR OTHER EXISTING PANEL CHARGE BY DG OR NOT	No
29	83-84	PCC	IF FEEDER RATING CHANGE DURING DETAIL ENGINEERING THAN PRICE WILL BE CHANGED	Agreed.
30		PCC	Is Energy meter provide only on Incomer Feeder or all Feeder Please clarify?	Supplier shall be consider a Multifunction Energy meter in all Incoming and outgoing feeder with ON/OFF/TRIP lamp.
31	108	PCC	EXISTING PCC FEEDER LIST WITH NO. OF CABLE RUN AND SIZE FOR ESTIMATION OF RETERMINATION	Shall be provide in a seprate sheet along with clarifications file.
32	110	Cable laying and Trench work	Cable laying underground work, digging work and trench work. Please Clarify Scope?	Digging of earthing and cable laying shall be in the scope of supplier.Refer battery Limits Page no.-110
33	69	Transformer	OTI/WTI box scada compacteble.	Supplier shall consider all Transfoemer data shall be shown in SCADA screen for monitoring Purpose.
34	104	Hardware for SCADA	Hard disc SATA 1 TB or 1 TB SSD	Supplier shall consider 1 TB SSD Hard disc for ES & OS.
35	102	Automation & SCADA	SCADA is only for Monitoring and control both?	SCADA is require only for monitoring and MIS System. Automation for this substation prefferable is Rockwell.
36	105	Hardware for SCADA	How much hardwere required for SCADA operation?	Supplier shall consider 01 ES + 01 OS + 01 MIS PC with Printer & Scanner: HP LaserJet Pro MFP 4104dw Printer
37	106	Network	Which type of communication required for PLC ?	Supplier shall consider Ring topology with Profinet communication.
38			who will pay the security deposit amount in ugvcI as we are updating the system demands.	It will be in Purchaser's scope.
39	31	Performance security	As per page 31 & 32, We presume 2 PBG has to be submitted in this contract, We have to submit Total 2 PBG or 1 PBG in this contract, please clarify	10% PBG is required to submit after completeion of Commissioning of the project. It shall be for a period of up to 12 months from the date of Project acceptance.
40	116	Performance Guarantee	Limited only to equipment supplied by contractor. No consequential loss is covered. Training only for equipment supplied	As per tender.