

Name of the work: **Construction of New Hospital Block in place of existing Hospital for Institute of Psychiatry & Human Behaviour, Goa: Substation and allied works – Electrical**

Tender Notice No.: **GSIDC/ENGG./NIT-31/2022-23 dated 29/07/2022**

**COMMON SET OF DEVIATIONS**

<b>Sr. No.</b>	<b>BOQ Item No.</b>	<b>CLARIFICATION SOUGHT BY BIDDERS</b>	<b>DECISION OF GSIDC</b>
<b>1</b>	<b>A1.3</b>	1) HT Panel (Outgoing) - Current Transformers are mentioned as 3 core while only two 5A secondary is mentioned	The required Current Transformer Ratio for Outgoing Section of HT Panel is 400-200-/5-5-1 Amps.
		2) What is the actual requirement ?	
		3) Should we couple this panel to some existing switchgears ?	There is No existing Panel and this is altogether a New Substation.
		4) There is no need for all outgoing to have 4G Modem ?	Item is as per standard specifications of Goa Electricity Department, strictly as per tender.
		5) The whole panel require only one Modem	
		6) What is the brand of existing MDM ?	
		7) In numerical relay what all protection is required in incomer panel and what all is required in outgoing panel.	Refer Volume II of tender document.
		8) What is the make of DLMS meter currently in use since specification mentions it needs to be connected to existing system	There is No existing DLMS meter and this is altogether a New Substation. Refer GED Approved make list on GED website for Approved Item Brands.
		9) HT Panel, Buscoupler is mentioned in the BOQ but not shown in the drawing. Kindly Clarify.	Conform to the BOQ item, refer tender document.
<b>2</b>	<b>A1.4</b>	1) Is the cable for 11KV system earthed?	Cable is for 11kV Earthed System.
		2) Restricted earth fault protection with 4 CT or 5 of PS class is needed for 1000KVA Transformer. Hence it is not seen mentioned.	Restricted Earth Fault Protection to be provided as per IE rules as mentioned in the Volume II of the Contract document.

<b>3</b>	<b>A2</b>	1)The 2 nos Transformer has more than 12000 litre of oil, Hence we require oil drainage pit as per rule of Indian Electricity rules.	The disposal of Oil shall be made as per the Pollution Control Board Norms. However, it is the appointed Contractors responsibility to dispose the scrap oil safely without any additional cost.
		'2) What all protection is required in the Transformer. 1. Bucholz Trip and alarm 2. OTI Trip and alarm 3.WTI Trip and Alarm 4. Minimum Oil Alarm	Protection shall be provided as mentioned in Volume II of the Contract Agreement.
<b>4</b>	<b>A3.1</b>	1)Short Circuit level is shown as 70KA while all breakers are of 50KA short circuit.	Refer Volume IV, Single Line Diagram for short circuit levels.
		2) Can the type test also be of 50KA? Do you require type test certificate as per latest IEC 61439 1-2	Type test can be of 50KA. Type test certificates should be as per latest prevailing IEC standards and approved by CPRI.
		3) It may not be possible to give sensitive earth fault protection using CBCT as it has to be mounted all around busduct conductor. Hence we suggest to have low set earth fault relay with neutral CT on the transformer. The CT specification is 15A, Class 5P 10, 15VA.	Strictly as per tender
		DG incomer : (1) When the DG is synchronised the total current is 2000A. Hence incomer is inadequate to take in full load current from DG sets.	DG sets have been considered only to cater to the Critical/Emergency load, which is not exceeding 1250A.
		(2) Against 6A MCB , 50KA breaking capacity is shown, Control MCB in each incomer circuit is to be of 10KA breaking capacity. Hence we request you to amend the same	Against 6A MCB, standard MCB's shall be used, having breaking capacity of 10kA.
<b>5</b>	<b>A3.2</b>	(1) Synchronizing relay, PLC with HMI for load sharing is not specified. Hence please confirm if the same is included here or elsewhere?	The Item has to be executed as specified in the Volume II of the tender document, which is required to Synchronize the DG Sets, with no additional cost.
		(2) 2 nos. battery charger is required for charging individual battery bank of the DG sets	The Battery Charger specifications are mentioned in Volume II of the tender document and has to be executed at no extra cost.
<b>6</b>	<b>A3.3</b>	How many flange are required? Is the busduct for connection between Transformer to MSB	As mentioned in the BOQ item the said busduct is from Secondary of Both the 1000KVA Transformer to LT

			Panel. Flanges may be considered as per the actual site conditions for which GA drawing will be provided during execution.
<b>7</b>	<b>A3.4</b>	APFC Panel, provision for reactor is mentioned in the BOQ. But it is not shown in the drawing whether it is required or not.	Conform to the BOQ item, refer tender document.
<b>8</b>	<b>A4.6</b>	The unit or quantity is wrong. Kindly issue a drawing for the intended type of fencing	The “unit or quantity” is correct. The details of fencing are as per Volume III.
<b>9</b>	<b>A6.2</b>	Please specify the brand name of DG set Engine and Alternator on which retrofitting is required	The retrofitting to be done on the new DG sets, out of the Approved Make list
<b>10</b>	<b>A6.2</b>	1. Pipes are available in 6M length. Lengths above that is made to order quality of the factory. Hence the length is to be corrected to 6mtr.	Strictly as per tender
		2. We request you to please mention the purpose of the pipe as you have mentioned hydraulic pressure test on the pipe. If the same is for the exhaust piping, then it is not required.	The said pipes are for Exhaust Piping of DG sets. The hydraulic pressure test is required to check the leakages in the pipe.
<b>11</b>	<b>A6.4</b>	If the purpose of insulation is for exhaust pipe, then rockwool with chicken mesh clad with 26G Aluminium sheet is the standard practice to take heat insulation. While nitrile rubber insulation is for cold application.	Strictly as per tender.
<b>12</b>	<b>A10.14</b>	Kindly Confirm which all panel require this system	The said system is for Main LV Panel.
<b>13</b>	<b>A10.15</b>	Kindly Confirm which all panel require this system	The said system is for HV Panel and DG Synchronizing Panel.
<b>14</b>	<b>B1</b>	How can it be 2% of total cost ? What all maintenance is to be done in DG set ? Since it is 11KV substation as per Electricity Act 2005 Electrical Engineer is required at least in general shift.	Strictly as per tender.