

SUPPLY OF 1*630 KVA DG SET FOR KOSTI TPS SUDAN

BHEL-ISG ENQUIRY NO: 77/15/6105/ANA DATED 19.08.2015

S NO.	Bidder's queries	BHEL-ISG REPLY
1	The tender document mentions that there are 2*MTU S2000 Gensets at site and we need to supply the synchronizing units with mails for existing DGs along with the new DG Set. Kindly send us the SLD showing how and what is the work model of these existing 2*2000 MTU gensets , 1*630 KVA MTU genset as well as with mains.	Please note the following for the existing 2 DG Sets at KOSTI TPS Site: Rating:630 KVA Engine make: MTU 12V2000G23 Alternator make: STAMFORD HCI544F-S/LVI634E1. The new DG Set should be of same rating and the make and model of the Engine and Alternator of the new DG set should be same as mentioned above. (Please refer to datasheet attached with enquiry). Please note that there is no requirement for synchronization in between the existing sets and the new genset. SLD of DG Set attached. DG AMF panel drawing is provided in the enquiry.
2	It is mentioned that the acoustic enclosure is existing and drawing is attached . Supplier to confirm that offered DG will fit into the same . Kindly advise if we only need to supply 1*630 KVA MTU open type genset.	As mentioned in the enquiry, the acoustic enclosure is existing at site and was designed for 630 KVA DG set powered with MTU 12V2000G23 Engine. The supplier to only supply 630 KVA DG Set with radiator on base frame and ensure that the same shall easily fit into the acoustic enclosure available at site.
3	Kindly advise if we need to supply oil filter . Fuel filter , Air filter for the 1*630 KVA MTU gensets or for the existing gensets also.	As mentioned in the enquiry the new DG Set shall be of same rating(630 KVA) and make(MTU 12V2000G23+Stamford HCI544F-S/LVI634E1 Alternator) of the existing 2 DG Sets. So 3 Set of filters needs to be supplied specific to MTU 12V2000G23 engine , so that when required the filters may be replaced in any of the 3 DG Sets.
4	COMAP AMF 25 relay is provided for existing DG Sets . Woodward MFR- 13 relay is provided for electrical protection. Please note that COMAP AMF 25 cannot achieve synchronization operation with Mains , 2 Units of existing gensets and new 1*630 KVA MTU genset. If synchronization operation is mandatory . Then all three gensets shall be equipped with COMAP- IG - NT controller. This will involve the replacement of the controllers of existing gensets and associated wirings. Kindly send us the SLD to clarify the point.	Please note that synchronization of the DG Set with the Mains Incomer shall be manually done by the operator from electrical control panel(ECP) located in Plant control room through Voltage raise/ lower and frequency raise /lower pushbuttons and Synchronizer available on ECP. There will not be any involvement of DG set controller in synchronization process. Moreover synchronization between the existing DG Sets and the new DG set is not envisaged at all. The SLD is attached for your reference.
5	These above mentioned transducers are mandatory . Please advise as our current controller can monitor and display all above parameters.	The transducers mentioned in the enquiry are mandatory and should be dual output. As electrical parameters of the DG set needs to be read at the control room ,these transducers have been envisaged. One output of the transducer shall be connected to the electrical control panel (ECP) in plant control room, while the second output shall be hooked to the plant DCS.
6	Tender specification demands for MTU 12V2000G23 3A power (continuous application), please advise if we can quote with MTU 12V2000G25(3B power) and Stamford HCI 544F which is the upgraded version.	We request you to consider MTU 12V2000G23 3A (continuous application) and STAMFORD HCI544F-S Alternators only as existing 2 sets are of same make and model.
7	Kindly share load profile.	Emergency loads of the power plant shall be supplied from DG in the event of failure of Mains supply/Blackout. DG sizing of 630 KVA has been done as per the emergency load requirement during Mains failure .

ER FILE NAME:

The information on
It must not be used dir

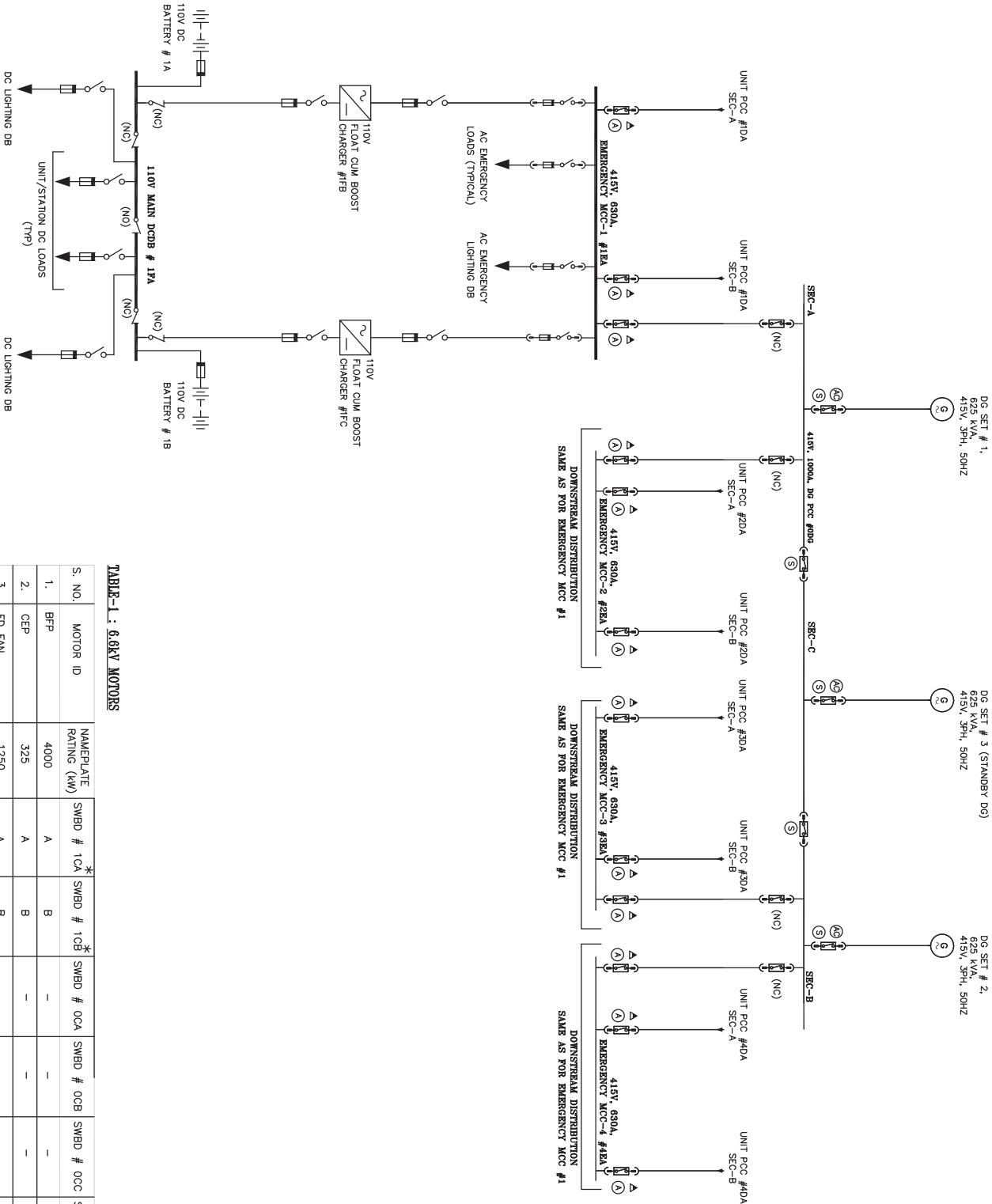


TABLE-1: 0.6KV MOTORS

S. NO.	MOTOR ID	NAMEPLATE RATING (kW)	SWBD # 1CA	SWBD # 1CB	SWBD # 0CA	SWBD # 0CB	SWBD # 0CC	SWBD # 0CD	SWBD # 0CE
1.	BFP	4000	A	B	-	-	-	-	-
2.	CEP	325	A	B	-	-	-	-	-
3.	FD FAN	1250	A	B	-	-	-	-	-
4.	GR FAN	225	A	B	-	-	-	-	-
5.	CW PUMP	1900	A	-	-	B	-	C	-
6.	DMGW PUMP	250	A	B	-	-	-	-	-
7.	1A COMP	270	-	-	A	B	C	-	-
8.	SA COMP	270	-	-	A	-	B	-	-
9.	RW INTAKE PUMP	900	-	-	-	-	-	-	A,B,C
10.	FW PUMP	200	-	-	-	A	-	B	-

