

## Annexure – II

### Compliance Sheet

<b>Sr. No.</b>	<b>Special needs for the Genset back up for Critical Equipment</b>	<b>Complied with Specifications (Fill in information)</b>
1	The Diesel Generator is to provide backup power when the electric mains power has a failure. The generator set is to have “primary continuous duty “application of providing power continuously for more than 16 hours on a given day. Please see the main specifications for additional details	Yes/ No
2	The Diesel Generator is to provide backup power to the uninterruptible power supplies of data centre digital equipment and the cooling system equipment. The Generator has to meet the full load of ups (supporting the server equipment) in the event of mains failure in a single step after starting and stabilizing within 30 seconds in a seamless manner. In addition, the cooling equipment loads will get connected too. The DG SET of engines, alternator should be rated for meeting this step load application (near full load) on start-up/running.	Yes/ No
3	IUCAA has a comprehensive intelligent building management system for monitoring the parameters of electrical power, temperature, humidity, entry into data centre area, fire alarm and control. The Diesel genset operational parameters as detailed in the main specifications have also to be monitored by the BMS. Parameters which are crucial for the reliable operation of data centre operation such as fuel and lubrication oil levels in the tanks/ sump respectively, line voltage, current, frequency, battery voltage, charging current, engine temperature are to be provided as analogy/digital levels or codified digital data through specified interface. This is an essential requirement to be met by the vendors of the DG set. The scope of BMS for DG set include the transducers for all parameters, hardware and software system as applicable for transferring the parameter to main BMS with back net protocols and local logging of the engine parameters on dedicated standalone system too.	Yes/ No
4	A lubricating oil filter shall be provided for operation under normal conditions for a period of 500 hours without the necessity of its replacement or cleaning	Yes/ No
5	The DG Sets shall be subjected to load tests at IUCAA, Pune site after installation in the presence of IUCAA`s representative with consultant. All the consumables required during testing of DG Sets at site shall be included in the scope of DG vendor. All consumables required during trial run of DG Sets on load for 13 hours out of which six hours for run up to full load, followed by six hours on full load and concluded by one hour 110% overload capacity to be arranged by DG Vendor. Also, vendor to arrange the 110% Load availability for testing. The test shall be carried out as per technical specification & records to be submitted for approval. (The formats of all tests carried out at factory & at site with details of relevant standards as per latest standards & permissible limits should be submitted by DG vendor for reference along with tender.	Yes/ No
6	Overall Dimensions of Generator Set in mm (Length X Width X Height including Silencer)	
7	Fuel consumption at 100 % load (Litre /Hr)	

8	Maximum time to start engine from cold and attain rated speed & ready to take one step load in Seconds	
9	Lube Oil Consumption @ % of fuel consumption	
10	Lube oil change period in hours	
11	Lube Oil Sump Capacity (Max) in Litre.	
12	Lube Oil required at the time of 'B' Check Maintenance in Litre.	
13	Lube Oil System Capacity in Litre.	
14	Type of Governor	
15	Engine BHP of Offered DG Set	
16	Transient speed increase for sudden 100% decrease of load (in % )	
17	Recovery Time in Seconds	
18	<b>Mandatory Spare Parts:</b> The list of mandatory spares which are considered essential by the Supplier shall be indicated in the bid for successful operation of DG Set for 3 years.	<b>Yes/ No</b>
19	Vendor to provide one-source responsibility for the generating system and accessories.	
20	The generator set and its components are prototype-tested, factory built, and production-tested.	
21	DG Set should accept 55% of rated capacity in one step.	<b>Yes/ No</b>
22	DG Sets panel shall be suitable for Auto operation controlled through AMF Relay as well as manual operation.	
23	The product should provide support for monitoring various parameters of diesel generator set over WEB and SNMP".	<b>Yes/ No</b>
24	While in operation of three Parallel synchronised gensets, if any Genset get fail(stopped), other two must be in normal Running (in operation) without an affect.	<b>Yes/ No</b>
<b>The Bidder/tenderer shall choose an option &amp; fill all related data in given data format only. If data is not filled properly or partially filled, tender shall be liable to rejection</b>		

**Sign and Seal for acceptance**