

SUPPLY AND FIXING OF 60-KVA DIESEL GENERATOR ALONG WITH ALLIED ACCESSORIES AS PER SIDE

REQUIRED SPECIFICATIONS:

1	Generator	Heavy Duty fabricated steel skid type based Skid mounted radiator engine drive blower type fan and protecting guards. Diesel day fuel tank for minimum 8 hours of run. Earthing & Neutral connections up to first water level. Frame with anti-vibration mounting / isolators. UK / China assembling origin of engine and alternator.
2	Engine	Prime Power Rating in KVA 4 Stroke Diesel Engine Water Cooled Direct coupled Alternator Self Ventilated / Regulated.
3	Alternator	Brushless Self excited Automatic Voltage Regulated Automatic Frequency Regulated 230/400 Volt 3-Phase, 4 Wire, 50Hz (Nominal Frequency) F/H Type insulated.
4	Speed	1500 RPM
5	No. of Cylinder	Inline 3 to 4
6	Aspiration	Natural / Turbo Charged
7	Ambient Temperature	45 degree Centigrade
8	Cooling System	Water Cooled Tropical Radiator with water level switch / indicator
9	Exhaust System	Heavy duty Residential Grade Silencer with Flexible Exhaust Pipe
10	Governor	Mechanical
11	Protection	Overload Shutdown Short Circuit Shutdown Low Oil Pressure Shutdown High Water Temperature Shutdown Under-Speed Shutdown Under-Voltage Shutdown Over-Winding Temperature Shutdown Over- Voltage Monitoring and Tripping Low- Voltage Monitoring and Tripping Phase Sequence Monitoring and Tripping Phase Failure Monitoring and Tripping

12	Monitoring / Control Panel	Automatic Alarm Monitor Under / Over Voltage Emergency Stop Switch Low Oil Pressure High Coolant Temperature Fail to Start Low / High Battery Voltage Meter
13	Metering	Voltmeter Frequency Meter Ampere Meter Hour Meter
14	Batteries	Maintenance Free Heavy Duty Lead Acidic Batteries Battery Rack and Cable Auto Battery Charger
15	Moveable Trolley	Moveable Trolley for Generator or easily portable and capable to carry with vehicle.
16	Standard Accessories	Standard Tool Kit One Set of Air Fuel and Lubricating Oil, Filters Technical and Operator Manual (Two Sets)
17	Optional Items (identifying Officer to specify)	Local / Imported according to Manufacturers standards Weather and Sound Proof and Acoustic Canopy with matching Silencer of approved makes 85 db (A) (Residential Grading) AMF Panel System Manual Charge over Panel System
18	Warranty	12 months from the date of Testing and Commissioning / 1200 hours what is earlier.
19	Spare Parts	The Generator supplied, its parts must be easily available in market.
20	Cable	50 mm sq 4-core power cable (Pakistan cable / New age)
21	Installation	Complete installation of Generator in GDA office
22	Switch	Automatic Transfer switch with MOR.