

Ref. No.	Description	Unit	Qty	Rate	Total Amount
1	Supply of standard & latest model brand new 12.5 KVA /10 KW (Prime) diesel generator set at site of reputed manufacturers / assemblers in CBU form having valid standard certificates of authorized Organizations / Departments in manufacturing / assembling. The D.G set comprises diesel engine, A.C. brushless alternator, skid mounted fuel tank, water cooled radiator and control panel etc. The engine and alternator should be coupled by means of Direct Disc. coupling and are mounted on steel base frame. The skid mounted fuel tank, radiator and control panels etc. also assembled with the generator. D.G set should have following major technical specifications as well as contained in tender documents: Output voltage 400/415V-230/240V b. Frequency 50 Hz c. Phase / Wire 3 Phase / 4 Wire d. Power Factor 0.8 Lagging e. Speed 1500 RPM f. Efficiency 95% at rated capacity g. Insulation Class "H" h. Governor Electronic / Mechanical i. Economical in fuel consumption j. Designed at ambient temperature >40 OC. k. The generator should be equipped with all standard safety switches, sensors and related faulty indications as well as all standard measurement meters on the control panel / module. l. A-level tool kit and 02 set of consumables like air, fuel & oil filters etc. The delivery should be at site i/c loading / unloading and all taxes.	job	1		
2	Providing, fixing, testing & commissioning Auto Transfer switch (ATS / AMF) Panel for 12.5 KVA Diesel Generator set (Prime) made with appropriate size angle iron frame & 16 SWG M.S Sheet, handle lock, cable glands etc. and fully equipped with electrical component like magnetic contactors, relays (i/c phase reversal) timers, MCCB's, MCBs, Auto Battery Charger and other controls etc. All components should be made of Terasaki / Fuji (Japan) / Siemens (Germany) / National Japan / ABB / Schneider or equivalent. The ATS / AMF panels should be four pole with full Auto/Manual control and suitable for single Wapda incoming supply. The ATS panel should also equipped with manual over ride (MOR) / by pass system. A comprehensive submittal containing & showing single line diagram, general arrangement of components & detail specifications & quantity of components etc. must provided along with tender by the bidder.	Nos.	1		
3	Installation, testing & commissioning of 12.5 KVA diesel generator set at full load with ATS panel along with construction of RCC foundation as per manufacturer's requirement, specifications & design etc. i/c cost of control cable, PVC conduit complete in all respects. The ATS panel will be installed (25-30) M (App.) away from generator. Lube & diesel oil, water coolant and any other material required for initial test run duration for 4 hours should be provided by the contractor. The job shall also include supply, making and testing standard earth systems (i.e Neutral & body) suitable for diesel generator set given in BOQ-I.	job	1		
4	Providing and fixing weather & sound proof canopy for 12.5 KVA diesel generator set made with appropriate size M.S. angle iron frame & sheet and foundation pad duly painted of approved color. The canopy sound level should not exceed 85 db. and with necessary doors for inspection / repairs, cable glands etc. complete in all respect.	Nos.	1		
5	Supply & laying of 2" dia Popular / Beta or equivalent brand PVC conduit with bends, sockets, clamps / saddles, rawal plugs i/c cost of excavation & re-filling with material after burring PVC conduit (if essential) complete in all respects	meter	45		
6	Supply & laying of 10mmsq. 4 Core PVC-PVC insulated copper cable (Newage, AGE, Fast or equivalent brand) in pre laid PVC conduit complete with cable lugs with each cable and relevant material in all respects.	meter	50		
7	Load management from already installed D.B as per generator capacity to ensure trouble free operation of D.G set	job	1		