



**INDIAN BANK
ZONAL OFFICE
GHAZIABAD ZONE
UTTER PARDESH**

PART - II

PRICE BID

TENDER DOCUMENT FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 62.5 KVA DG SET FOR INDIAN BANK AT PLOT NO E-16B / 1, SECTOR-30, NOIDA, UTTER PRADESH.

ISSUED TO

M/s. _____

ARCHITCT

**M/S VASTU SADAN PVT LTD
122A/12, GROUND FLOOR, GAUTAM NAGAR,
NEW DELHI-110049**

ELECTRICAL CONSULTANT

**M/S R A MALIK & ASSOCIATES
17A/10, ROOM NO.-301, AJMAL KHAN,
KAROL BAGH, NEW DELHI-110005**

This document contains 04 pages

BOQ FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 62.5 KVA DG SET AT PLOT NO E-16B/1, SEC-30, NOIDA, UP					
S.No	Description	Unit	Qty.	Rate	Amount.
A)	SUPPLY AND INSTALLATION OF DG SETS				
1.0	DG SET WITH RADIATOR COOLED - WITH ACCOUSTIC HOOD				
	<p>Design, Manufacture, Supply at site of Prime Duty continuous rated 4 stroke, DG Set of following ratings comprising of Engine (make as per approved list), 1500 rpm, radiator cooled, coupled and aligned with continuous rated, 415 V ± 1%, 3 phase, 4 wire, 50 Hz. 1500 rpm, 0.8 PF industrial type brushless, AC Alternator with electronic AVR & alternator protections (of make as per approved list) on a common base frame with all standard accessories such as 3mm thick suitable MS painted fuel tank & fully charged lead-acid batteries with angle iron stand, battery leads, residential silencers, suitable electronic governor compatible with PLC based DG Sets synchronisation and auto start/ stop & auto load sharing. Set shall also have engine protection unit and sensors for winding & bearing temperature monitoring. Set to be complete with antivibration mountings as may be required. DG set shall be complete with accoustic hood as per CPCB norms and standards.</p> <p>DG sets shall also have standard instrument panel with, lub oil pressure gauge and water temperature gauge including safeties against overspeed, low lub oil pressure and high water temperature conforming to specifications and also with an emergency stop button. Alternator shall be complete with suitable terminal box with Aluminium link work to accomodate the Aluminium Armoured cables/ Bus duct as may be required. Set shall also have 4 sets of engine/ alternator manuals, spare parts book, test and warranty certificate and log book etc</p>				

	<p>Unloading & shifting, Installation, testing, commissioning and alignment of following ratings D.G. Sets with accoustic hood as the case may be to D.G. Room/ DG location out door on the existing foundation including AVM mounting, leveling and commissioning of D.G. Set and co-ordination with other agencies etc. complete with attached and allied accessories like silencer, fuel tank and batteries etc</p> <p>Item includes Obtaining clearance from Central Pollution Control Board (CPCB) & State Pollution Central Authority in respect of noise level and emission level being within permissible level and obtaining clearance from Chief Electrical Inspectorate</p> <p>Testing and running of DG Sets for 72 hours with 1 hour 10% overload including supply of diesel and Lub. oil for the complete testing time period for the following ratings:</p>				
a)	62.5 kVA DG Set (with Day Fuel Tank)	Set	1		
	TOTAL CARRIED OVER TO SUMMARY				
B)	EXHAUST PIPING & INSULATION FOR DG SETS				
1.0	EXHAUST PIPING				
	Supply, laying of following sizes of MS Piping for Exhaust including providing suitable bends, reducers & supporting arrangement at suitable intervals, painting etc. as required.				
a)	100mm (NB) MS ERW pipe 4.85mm thick	RM	18		
2.0	EXHAUST PIPING INSULATION - (Only 75mm thick of Rockwool)				
	Supply, testing and commissioning of 75mm thick Rockwool insulation (of 150 kg per cubic meter density) around the exhaust pipes of following diameter including cladding with aluminium sheet of 26SWG and covering from outside complete as required suitable for DG exhaust pipe temperature upto 450°C.				
a)	100mm (NB) MS ERW pipe	RM	18		
b)	Insulation of silencers for 62.5 kVA DG Set.	Nos.	1		

3.0	Supply of miscellaneous structural support for horizontal exhaust piping including fabrication, hardwares and painting as per specifications.	Kgs.	50		
4.0	Supply & fixing of SS expansion joints 400mm long for exhaust pipes.				
a)	100mm exhaust SS Bellows (For 62.5kVA)	Each	4		
	TOTAL				
c)	<u>OPERATION & MAINTENANCE</u>				
	YEAR (ALL INCLUSIVE COMPREHENSIVE MAINTENANCE)				
	First Year after DLP	Set	1		
	Second Year after DLP	Set	1		
	TOTAL				
	GRAND TOTAL				
	In words .(Rupees				

IMPORTANT NOTES :

1	DG Set less than 1010kVA in the indoor installation has to be with accoustic hoods.
2	DG Set in the out door installation irrespective of capacity has to be with acoustic hoods.
3	Vendor/ supplier to check and ensure with the Owner/Architects on the type of DG set i.e. with or without hood before quoting and supply, irrespective of what is mentioned in this BOQ/ Specifications.
4	Vendor/ supplier to check and ensure with the Owner/Architects on the type of DG set i.e. with heat exchanger or with radiator or with remote fluid cooler before quoting and supply, irrespective of what is mentioned in this BOQ/ Specifications.
5	Vendor/ supplier to ensure suitability of the set from all aspects including need of the acoustic hood, type of the DG set like with heat exchanger or with radiator or with remote fluid cooler before quoting and supply, irrespective of what is mentioned in this BOQ/ Specifications.
6	Vendor/ supplier to check, verify and confirm to Owner/Architects the size of the exhaust pipe for the DG sets as per site requirement based on back-pressure calculations before quoting and supply, irrespective of what is mentioned in this BOQ/ Specifications
7	Vendor/ supplier to check, verify and confirm to Owner/Architects the size of the cooling tower, pumps and piping for the DG sets as per site requirement before quoting and supply, irrespective of what is mentioned in this BOQ/ Specifications.
8	Vendor/ supplier to check, verify and confirm to Owner/Architects the ventilation requirement being provided for the DG Set area.
9	Vendor/ supplier to assume complete responsibility of a technically correct and safe installation. Vendor/ supplier is adviced to collect all the details/ facts from Owner/Architects and visit site before quoting/ supplying
10	Vendor / supplier to study architectural drawings and visit site to findout suitability of DG sets shifting into basement / (DG set room / location) through ramps / hatches etc. and confirm to owners / PMC the suitability or otherwise before quoting / before accepting order / before supply of equipments.