

State Bank of India

INVITES TENDERS

FOR

SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF

25 KVA D.G. SET ON MONTHLY RENTAL BASIS AT

BHARATGARH BRANCH

TENDER DOCUMENTS

State Bank of India (SBI) Invites Sealed Tenders From The Contractors for the S.I.T.C OF 25KVA D.G. SET ON MONTHLY RENTAL BASIS AT BHARATGARH BRANCH PREMISES. Details of Tender are as under :-		
1.	Name of work	S.I.T.C OF 25 KVA, 3 Phase D.G. SET on Monthly Rental Basis at Bharatgarh branch (Punjab)
2.	Time allowed for completion	15 days from the date of Work order.
3.	Earnest Money Deposit	10,000/- (Ten Thousand Only) by crossed Bank draft/ Banker's cheque drawn in favour of State Bank of India payable at Rupnagar
4.	Security Deposit	5% of the accepted annual rent value of the contract including earnest money.
5.	Last date and time of receipt of Tender	02.05.2025 up to 5:00 PM
6.	Address at which the Tenders are to be submitted	Technical Bid, EMD and Price Bid is to be deposited at RBO Rupnagar.
7.	Date and time of opening of Technical Bids	At 11.00 a.m. on 03.05.2025
8.	Place of Opening Tenders	State Bank of India, Regional Business Office, Rupnagar, 1st Floor, College Road, Rupnagar, Punjab-140001
8.	Defects Liability Period	12 months from the date of completion
9.	Validity of offer	90 days from the date of opening of Tenders.
10.	Liquidated Damages	At the rate of 0.5% of the contract value per week of delay subject to a maximum of 5% of the accepted contract value.
11.	Value of Interim certificate	N/A
In case the date of opening of Tenders is declared as a holiday, the tenders will be opened on the next working day at the same time. SBI has the right to accept/reject any/ all Tenders without assigning any reasons.		
For and behalf of State Bank of India		

MODE

MODE OF SUBMISSION OF TENDER: OFFLINE

The tender shall be submitted OFFLINE in two cover system in accordance with the procedure detailed herein below. Specified documents shall be sealed in envelopes of appropriate size each of which shall be sealed.

- 1) Envelope marked TECHNICAL BID shall contain covering letter, clarification (if any), technical and general terms & conditions, duly signed and requisite EMD along with copy of Tender fee receipt, is to be deposited at RBO Rupnagar latest **by 02.05.2025** up to 05:00 PM.

Opening of Tender:

- 2) Cover 1 (TECHNICAL BID) containing the Earnest Money Deposit, covering letter, terms and conditions, if any, will be opened first.
- 3) After opening of cover 1 (TECHNICAL BID) and after evaluating the clarifications / conditions, if any, stipulated by the contractors, i.e. if the vendor are qualified, cover 2 containing priced BOQ will be opened of those qualified vendors.

In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time.

State Bank of India has the right to accept / reject any or all tenders without assigning any reasons.

Yours faithfully,

-----S/d-----

Signature of the Tenderer

Chief Manager

TECHNICAL SPECIFICATIONS FOR SILENT DIESEL GENERATOR SET

(a) Diesel Engine:

- (I) Make : Kirloskar/Cummins/Greaves/Mahindra/Ashok Leyland/Mahindra/Eicher
- (II) Multi Cylinders, water cooled, 1500 RPM, Diesel Engine

(b) Alternator Specifications:

- (I) Make: Stamford/Kirloskar Electric/Crompton Greaves.
- (II) Capacity: 7.5/10/15/20/25/30 KVA at 0.85 PF, 230 Volts, single phase, 50 Hz.
30/35/40/50/62.5/75/82.5/100/125 KVA at 0.85 PF 415 volts, 3 phase, 4 wires, 50 Hz
(Single phase DG set upto 25 KVA depending upon site conditions, may be hired)
- (III) The regulation from no-load shall not exceed 2.0%.
- (IV) The alternator shall be of brush less type design, self excited of robust construction. The alternator shall be suitable for continuous rating with ambient temperature of 40 degrees centigrade. The voltage control shall be through automatic voltage regulator unit (AVR). The AVR unit shall de-excite the alternator in case of short circuit.
- (V) It shall withstand 10% overload for one hour every 12 hour duration on operation.
- (VI) The alternator shall conform drip proof constructions per IS:4722 (at least IP 23).

(c) Sound proof enclosure:

- (I) Noise level permitted: Wherever acoustic insulation is provided 75 db at 1.0 meter from DG set under free field condition meeting CPCB norms.
- (II) Shall be factory fabricated specially with superior quality acoustic insulation so as to achieve the permissible noise level within the prescribed norms of State/Central Pollution Control Board.
- (III) The container shall be weather proof housing the DG set, fuel tank. Fresh air will enter from the alternator end. Blowers of adequate capacity will be provided, if necessary to provide sufficient air for cooling and ensure operating temperature is within prescribed limits specified by engine manufacturers.
- (IV) Hinged/sliding door will be provided on either side. Sufficient maintenance access shall be provided in the design of the acoustic enclosure.

(d) Age of diesel generator set: Age of diesel generator set at the time of hiring should be less than 3 years old. Invoice/Excise gate pass etc. shall be submitted as a proof of age.

(e) The diesel engine shall be robust heavy-duty construction. It shall deliver the required BHP at the shaft of the coupled alternator to deliver the rated output of required KVA. The speed governor shall be mechanical auto controlled, adjusting automatically to the desired load conditions.

(f) The Engine shall be fitted with all standard accessories as detailed above. It shall be possible to start the engine from the AMF panel and locally.

(g) The operation of the DG shall be on automatically on Mains Failure with a pre-set time. The Engine will be shut down automatically on resumption of mains power with a pre-set time delay through AMF Panel.

(h) The DG set shall be mounted on wheels or foundation as required.

AUTOMATIC MAINS FAILURE PANEL (WHEREVER REQUIRED)

- (I) AMF control panel for auto starting of the DG set shall be fabricated from the MS sheet steel 14 gauge and shall be of compartmental design. The main supporting framework shall be of angle iron or of heavier gauge steel metal. The panel shall be of self supporting design, dust and vermin proof, dead front and fully interlocked with isolating switches. The panel mounted switches shall have defeat interlocks for testing and inspection.
- (II) The panel shall be designed so as to facilitate inspection, cleaning and repairs. The clearance between phase to phase and phase to earth or metal parts shall be as per relevant IS standards. The metering instruments like volt meter, ammeter, etc. shall be flush mounted and shall be of 1.0 class accuracy and of standard design size shall be 96 mm x 96 mm. All indication lamps shall be of neon type/digital. The panel shall be tested at site before commissioning.
- (III) All wiring inside the panel shall be done with copper conductors/cables/solid copper links. All the hinge doors shall be earthed. Adequate ventilation for the panel shall be provided. Logic diagram of operation of switches shall be painted on the panel. The name plates for each feeder shall be engraved design and pasted to the respective switch gear.

- (a) Type : Cubical, front operated with detachable cable gland plates at top and bottom.
- (b) Enclosure: 14G CRCA suitably rust inhibited with powder coated with 7 tank treatment process and provided with square section rubber gaskets IP52 enclosure.
- (c) Mounting: Floor/Wall mounted with supporting legs or blank panel.
- (d) Circuit breakers: Double Breaker for DG set and Mains isolation.

- (e) Instrument panel AC Voltmeter (0-600V) Voltmeter Selector switch.
fitted with. AC-Ammeter of suitable range, Ammeter selector switch
KWH Meter, Frequency Meter, Running Hour Meter.

(iv) Indicating lamps for

Load on Mains
Load on Generator.
Set fails to start
Low lubricating oil Pressure.
High water temperature

(v) Sets of Push Buttons for

Generator start/stop
Emergency trip
Auto Hooter
Auto/Manual Test/Selector Switch
Generator ON/OFF- Manually
Mains On/Off- Manually.

(vi) Battery charger static, comprising of

Transformer
Rectifier
Trickle/Boost auto
DC Ammeter
Mains Voltage Monitor
AMF Logic with three attempt starting facility.

(vii) Protection

Over Voltage, under voltage, over load.
Short circuit, over speed.

(viii) The operation of the AMF panel shall be as follows:

In the event of mains failure or failure of any one phase of incoming mains voltage/ frequency beyond the specified limits, signal will be given to start the generator set after a pre-set time. On firing of DG set and built up of voltage which if within the specified limits of voltage and frequency, the output breaker/contractor shall be energized and power connected. Thus the AMF panel shall continuously monitor the quality of the incoming power and outgoing power of DG set.

Once the mains power resumes/stabilized within the set limits, the AMF panel shall trip the DG set after disconnection of the DG output with the present time.

The AMF panel shall have facility to operate the set under test, auto, manual mode.

Note: A bypass switch for AMF panel should also be provided so it can be used in case of malfunction of AMF panel.

**FUEL CONSUMPTION PATTERN FOR DG SET:
INDICATIVE CHART FOR DIESEL CONSUMPTION (PER HOUR) OF DG SETs**

Sr. No.	Generator KVA	Diesel consumption litre per hour
1	15	2.91
2	20	4.78
3	25	4.78
4	30	6.55
5	40	8.11
6	50	10.19
7	62.5	10.92
8	75	13.52
9	82.5	13.52
10	125	19.76
11	140	23.40
12	200	30.99

GENERAL TERMS AND CONDITIONS FOR DG SET HIRING

1. Operating time of Diesel Generator set shall be from 9 AM to 8 PM. Wherever manual operation is required, qualified operator(s) shall be provided by the contractor including on Sundays and Holidays.
2. Operation also includes topping of fuel, changeover operations etc. Wherever auto Main Failure (AMF) is provided, the contractor to monitor on regular basis, the fuel level, topping if required and provide a operator in case of AMF failure. No additional charges will be paid for the same.
3. No additional rent or operator charges will be paid for operation on any holiday and weekends, if required.
4. Minimum wages as prescribed by the Labour Act shall be payable to the operator(s) by the contractor as the case may be. The contractor shall bind himself and shall indemnify the Bank.
5. The contractor will comply with all the applicable labour laws, rules and regulations relating to PF Act including the payment of PF contribution, Payment of Bonus Act, Minimum Wages Act, Workmen's Compensation Act, ESI, CL(R&A) Act, Essential Commodities Act, Migrant Labour Act and or such other Acts or laws of regulations passed by the Central & State, Municipal and Local Government Agency or authority, including TDS as per Income Tax Act, applicable from time to time. The contractor shall be responsible for maintaining record pertaining to payment of Wages Act and also for depositing the PF contribution, if required , with authorities concerned.
6. The contractor shall be responsible for proper maintenance of Registers, Log Books etc. as required under the applicable laws/statutory provisions and or Rules/Regulations framed there under.
7. The contractor shall be responsible for all the claims of the employees of the contractor and shall not make and claim whatsoever against the bank. The contractor's workmen will not have any right whatsoever to get absorbed in the Bank. The contractor shall be responsible for all statutory requirements e.g. ESI, PF, labour registrations, insurance coverage etc. The operator is responsible for compliance of all the rules and safety regulations etc.
8. The contractor shall engage fully trained and adequately experienced workmen, who are medically fit. They should be free from any contagious diseases. The insurance for the workmen shall be arranged by the contractor and ensure that the operator shall be well mannered and properly dressed with shoes etc.

9. The contractor shall obtain adequate insurance policy/policies in respect of his workmen to be engaged for the work towards meeting the liability of compensation arising out of death/injury/disablement at work etc.
10. The contractor shall bear all the costs and expenses in respect of all charges, including stamp duty etc. for agreement and/or any other documents/agreements, which are required to be executed.
11. All necessary tools like clamp meter, drilling machines and pliers and other essential tools for effective maintenance of the Diesel Generator equipments shall be provided by the contractor.
12. Contractor shall arrange for comprehensive maintenance of their Diesel Generator set as prescribed by the supplier for reducing the breakdowns to the minimum and for uninterrupted operation of Diesel Generator Set.
13. All the maintenance expenses including replacement of spares for the Diesel Generator set along with periodic replacement of lube oil shall be borne by the contractor.
14. The contractor/owner of the Diesel Generator set has to arrange at their own cost all necessary approval from Govt. of AP/APPCB or any other statutory body including environmental charges, if required, for installation and running of Diesel Generator set at respective sites.
15. The contractor shall arrange for diesel and the cost will be reimbursed to them along with the transportation charges as on actual basis on production of receipt/bill duly certified by the Officer In charge/Engineer.
16. Owner/contractor of Diesel Generator set has to keep the diesel in safe custody under proper care at the site and has to ensure the safety of the location.
17. Owner/contractor of the Diesel Generator set has to bear the installation/transportation charges of Diesel Generator set.
18. Owner/contractor of the Diesel Generator set has to maintain a log book at the site to record the following:-
 - I) Hour meter reading.
 - ii) Time for which the generator was operational (generator off and on timings).
 - lii) No. of units generated through D.G. Set.
 - iv) Consumption of diesel.The log book shall be submitted to the Officer-in-Charge as and when called upon by the Officer-in-charge.
19. The generator downtime shall be kept to all care shall be taken so that the downtime of DG set is kept minimum. During the currency of the contract, Maximum permissible frequency of failures in a month.
 - (a) Once for approximately one hour.
 - (b) Four times for approximately half hourIn case of major break down, standby arrangement shall be made within 24 hours from the time of breakdown. In case of poor performance/non performance of DG set taken on hire, the penalty (twice hiring charges) per day may be deducted from the hiring charges for the month.
20. 5% of annual contract value shall be kept a retention money (Performance Guaranty) during the contract period, which will be forfeited in case of poor performance or non performance. Any of the deliverables not being delivered for more than 2 days in a quarter would mean "poor performance".

The contractor /firm shall be held responsible for any misdeeds/misbehavior of their employees within the premises.

21. Self start battery condition shall be well maintained for trouble free operation.
22. In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provisions, B.I.S. Recommendations, factory act, workmen's compensation act, CPWD code and instructions issued from time to time. The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work wherever necessary so as to avoid accident. The Bank shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk.
23. As per the prevailing guidelines of the State/Central Govt. (e.g. Pollution Control Board, Electrical Inspector and Power Distribution Company etc.) the permission for installation of DG sets should be obtained and kept with the Bank. The statutory fees shall be paid by the Bank but the arrangement and liaisioning with the concerned Govt. Departments shall be under the scope of the contractor. Wherever applicable, the electricity tax for generation of energy based on number of units generated, should be paid to the concerned Energy Department/Electrical Inspectorate, Electricity safety Deptt.

24. LOCAL REGULATIONS, BYE-LAWS, IER ETC.

The approval/clearance for installation of DG set from Central Pollution Control Board/State Pollution Control Board/ Local Bodies/ State Electricity Board/ other Licensing Authorities as required will be obtained by the supplier/contractor. The Diesel Generator installation is generally governed by the following regulations:-

- a) Indian Electricity Rules 1910.
- b) Local Regulations.
- c) Pollution control rules(State/Union Govt. rules)
- d) Electricity Board (State/Union Govt. Rules).

The supplier shall be responsible for preparation of all applications, submission of applications, follow up, inspection and obtaining and delivering NOC from various authorities concerned. The payment of demand notices of the various statutory bodies shall be made by the State Bank of India. The original payment receipt shall be logged with State Bank of India.

State Bank of India, will only affix signatures and furnish fees to be paid for local authorities inspection etc. It must be clearly understood that the installation will not be taken over by State Bank of India even after commissioning unless approval/clearance from concerned authorities are furnished.

25. The Hire charges quoted shall be inclusive of all taxes including service tax, duties, operator charges, night duty allowance, overtime charges etc. Bank will pay the hiring charges at monthly intervals.

26. The initial period of contract is for 3 years period and renewable for further period of maximum 3 years, subject to satisfactory services.

27. Bank reserves the right to terminate the contract with one month prior notice.

SIGNATURE OF THE CONTRACTOR WITH SEAL