



G.B. Pant National Institute of Himalayan Environment & Sustainable Development
(Formerly Known as G.B. Pant Institute of Himalayan Environment & Development)
Kosi-Katarmal, Almora - 263 643, Uttarakhand

Tender Notice No.: GBPI/Silent Diesel Generator/Institute/16-17/2016/18

Sealed tenders are invited on behalf of the Director, GBPIHED, Kosi-Katarmal, Almora from eligible reputed and registered firms/suppliers/manufacturers for supply of following equipments:-

Sr. No.	Equipment/Item	Qty.
1.	Supply & Installation of Noiseless 125 KVA DG Set	01

The tender document may be purchased in person on payment of Rs. 500/- + VAT @ 13.5% (i.e. Rs. 568/-) from the office of the undersigned in any working day (Monday to Friday) between 10:00 a.m. to 2:30 p.m. Those desirous of obtaining the tender document by speed post may send a D.D. of Rs. 550/- + VAT @ 13.5% (i.e., Rs. 624/-) drawn in favour of Director, GBPIHED, Kosi-Katarmal, Almora and payable at any bank at Almora branch. The tenderer will have to deposit an earnest money of amounting to Rs. 2.5% of the quoted price only in shape of D.D./pay order in favour of Director, GBPIHED and payable at any nationalized bank at Almora. Tender document may also be downloaded from the Institute web-site <http://gbpihed.gov.in> and can be submitted alongwith a demand draft of Rs. 500/- plus VAT 13.5% (Rs. 568-00). Late submission of tenders or submission through fax shall not be accepted. The Institute reserves the right to accept or reject any part of tender without assigning any reason whatsoever. The decision of the Competent Authority of the Institute shall be final and binding to all parties.

Note: "Technical bid and financial bid" in the prescribed proforma alongwith EMD/Terms & Conditions and duly signed be quoted in separate sealed envelopes superscribed suitable in bold letters (Technical or Financial Bid) both these envelopes should be placed inside a common bigger envelop superscribed tender for **"Supply & Installation of Noiseless 125 KVA DG Set."** These tenders must reach Institute by Speed Post or registered post or placed in the tender box by due date and time.

a) Last date of sale of tender document	09.01.2017
b) Last date of submission of tender	10.01.2017 at 2:00 p.m.
c) Date of opening of the Technical bid	10.01.2017 at 2:30 p.m.

Administrative Officer
Email: ao@gbpihed.nic.in



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TENDER DOCUMENT FOR THE SUPPLY OF FOLLOWING ITEMS/EQUIPMENT:

1. Supply & Installation of Noiseless 125 KVA DG Set

Price of Tender Document : Rs. 500.00 in person + Vat@13.5% =Rs. 568.00
Rs. 550.00 By post + Vat@13.5% =Rs. 624.00
(Non refundable)

Last Date of sale of tenders : 09.01.2017
Last date of submission of tenders : 10.01.2017 up to 2.00 P.M.

Opening of tenders : 10.01.2017 at 2:30 P.M.

Kosi-Katarmal

Date:

Signature & Seal of
Administrative Officer

1.0. GENERAL TERMS AND CONDITIONS

1.1. This document contains the following:

- (i) Copy of the local competitive bidding notice
- (ii) General terms and conditions of bid
- (iii) Terms and conditions for submission of bid
- (iv) Payment terms
- (v) Settlement of dispute
- (vi) Application form
- (vii) Undertaking
- (viii) Bid form
- (ix) Schedule of earnest money to be deposited along with tender
- (x) Detailed specification of the items and required quantity
- (xi) Check list

1.2 The tender document is not transferable by the purchaser. The bid form supplied by the Institute at Annexure - II in original only is to be used for bidding. Bids made on Photocopy, *etc.*, will not be considered. However, the additional sheets containing the same proforma may be used. Each sheet including that provided by the Institute with this document must be signed by the bidder. **The price bid must be in the form provided herewith at Annexure - II.**

1.3 The tender will not be accepted from the firm to whom the document is not issued by the Institute.

1.4 The Institute takes no responsibility for delay or non receipt of Tender document sent by post either way and also reserves the right to accept or reject any or all the tenders in part or full without assigning any reason thereof.

1.5 No bid document will be sold after the last date of sale of tender document or between the extended period of opening date, if any.

1.6 The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bidding document. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding document in every respect will be at the bidder's risk and may result in the rejection of its bid.

1.7 This call of tenders does not bind the Institute to place order. The tenders submitted in response to this invitation can be rejected without assigning any reason.

1.8 The Institute at its discretion may extend the last date of submission of tender and opening of tenders. The final authority for acceptance of a tender will rest with the Director, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, who does not bind himself to accept the lowest tender and is vested with the authority to reject any or all of the tenders received without assigning any reason.

1.9 Documents, literature, diagrams/leaflets, samples *etc.*, enclosed in the tender shall become the property of the Institute without any payment.

1.10 The warranty period is twelve months starting from the date of successful commissioning of the instrument or installation of furnitures, *etc.* Therefore, successful bidders has to deposit **performance guarantee** i.e 5% of the value of the item before issuance of supply order. Performance guarantee should be valid till 90 days beyond the expiry of warranty.

1.11 The tender would be regarded as turned down, if no award of contract has been obtained till the expiry of the tender validity. No separate communication will be made in this regard.

1.12 The items have to be supplied in standard packaging.

1.13 In case of the date of opening of tender is declared as Public Holiday, the tender shall be opened on the next working day at the same time.

1.14 The bid shall contain no interlineations, erasures or overwriting words except as necessary to correct errors made by the bidder, in which case such correction shall be initialed by the person or persons signing the bid.

1.15 Late and delayed tenders shall not be considered and may be returned unopened to the bidder.

1.16 It is advised that the outside suppliers should send the tender through registered post. However, the local supplier may drop their tenders in the office of the Institute.

1.17 Canvassing in any form will disqualify the bid.

1.18 Request for the tender document for bidding through telegram, telephone, money order and telefax shall not be entertained.

1.19 The tender notice no. **GBPI/Silent Diesel Generator/Institute/16-17/2016/18 and Item code numbers (The item code number is given in the specification sheet)** must be invariably quoted in bid and further correspondence in this regard.

1.20 All the tenders should be addressed to:

The Director

Attention: The Administrative Officer

G.B. Pant National Institute of Himalayan Environment and Sustainable Development
Kosi-Katarmal, Almora 263 643, Uttaranchal, India.

2.0 Submission of Bid

2.1 The bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, shall be written in English/Hindi language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by English translation of its pertinent passages in such case, for purposes of interpretation of the bid English translation shall govern.

2.2 The bid must accompany Annexure - I with Techno Commercial part of Bid and Annexure - III along with "Price" part of the bid duly filled in and signed by the bidder along with the seal of the firm.

2.3 The bidders are requested to quote the rates item-wise and the total price of each instrument separately indicating the Government levies, transportation and other expenditure item-wise as FOR our Institute in case of LCB and FOB rates in the case of ICB.

2.4 Bidder can quote the rates for all the instruments or some of the instruments. The Institute reserves the right to accept the tender in full or in part.

2.5 The tender is to be submitted in "single stage - 2 envelopes system" *i.e.*, the first sealed envelope will contain full information required to judge pre-qualification, earnest money, complete details and specification of the instruments offered including the leaflets and catalogues, list of credentials with documentary evidence *i.e.*, purchase/work order *etc.*, Income Tax clearance certificates, sales tax registrations No., Affidavit for not being black listed, Commercial Terms and conditions, *etc.* It shall be marked "Prequalifications, technical and commercial bid No. **GBPI/Silent Diesel Generator/Institute/16-17/2016/18 on 10.01.2017**". Both the above envelopes must be separately sealed and shall be kept in one envelope bearing the address of Institute and superscribed with bold letter "**Silent Diesel Generator.**" **NOT TO OPEN BEFORE 10.01.2017.**

2.6 Technical and commercial part of the tender will be opened on due date *i.e.*, at 2:30 p.m. on **10.01.2017** in the office of the Institute in presence of the Representative of the tenderers who choose to be present. Sealed price part of technically and commercially acceptable tenders will be opened on a later date which will be communicated by the Institute on the same day or on a later day by post.

2.7 The bidders are to deposit an amount as per schedule at Annexure - III depending upon the instruments quoted by him towards the "Earnest Money" (2.5 % of the total cost) along with tender in the form of **Bank Draft only** in favour of G.B. Pant National Institute of Himalayan Environment and Sustainable Development" Payable at Almora. The earnest money may be forfeited if a bidder withdraws its bid validity specified in tender document or fails to supply the instruments within specified period in tender document. **TENDER SHALL NOT BE ENTERTAINED** where a tenderer has not furnished adequate earnest money in prescribed acceptable form. In case the instrument delivered is found defective and not attended to by the supplier, the earnest money deposited by the supplier will also be forfeited.

2.8 The firm who seek exemption from depositing earnest money being small scale industry or being registered with DGS&D and other Government agencies which entitles them for exemption must submit the valid Registration certificate covering the instrument offered by them along with a permissible value. The copy of Government notification granting exemption from deposit of EMD must be submitted along with the first part of tender along with the bid.

2.9 The Earnest Money as indicated at **Annexure - IV** of bid document must be submitted by the bidder alongwith tender through the demand draft only in favour of G.B. Pant National Institute of Himalayan Environment and Sustainable Development, payable at Almora.

2.10 The earnest money of the unsuccessful bidder will be refunded without any interest after the concerned purchase is finalised or within three months whichever is earlier and that of successful bidder will be refunded without any interest within one month of the successful installation and commissioning of the instrument.

2.11 The validity of tender would be for a minimum period of 90 days from the date of opening of tenders. A bid valid for a shorter period may be rejected by the Institute as non responsive. In exceptional cases the Institute solicit the bidder's consent to an extension on the period of validity and the bid shall remain valid for the extended period mutually agreed for.

2.12 The rates should be quoted both in words and figures.

2.13 Arithmetical error will be rectified on the following basis: -

If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is discrepancy between words and figures, the amount in words will prevail.

2.14 Tenders not in proper sealed cover or received telegraphically or by fax will not be entertained.

2.15 Conditional tenders will be rejected without assigning any reason.

2.16 The bid shall be typed or written in indelible ink and shall be signed by the bidder or a person duly authorized to the contract. The letter of authorization should bear the signatures of only the authorized person of the firm. All pages of the bid, except for unamended printed literature shall be initialed by the person or persons signing the bid.

2.17 To assist in the examination, evaluation and comparison of bids the buyer may, at its discretion, ask the bidder for a clarification of its bid. However, no change in the price or substance of the bid shall be sought, offered, re-permitted.

2.18 Eventual suggestions for modification or subsidiary tenders are principally not admissible.

2.19 The specification are clearly mentioned in the document and the bidders are requested to submit bid only if their offer strictly comply to these specifications. Please note that no deviation in the required specification will be permitted. The bidding for the instruments having different specification will be on bidder's risk as the Institute will not entertain such bids. BIDS CARRING THE STATEMENT LIKE "SPECIFICATION AS PER TENDER DOCUMENT" SHALL NOT BE ENTERTAINED. THE PRODUCT SPECIFICATIONS SUPPORTED BY TECHNICAL LITERATURE AND LIST OF USERS, MUST BE ENCLOSED.

2.20 The placement of work order/purchase order will be according to technical evaluation of the tender and after consideration of its price worthiness.

2.21 The price to be given in the tender are fixed prices, irrespective of rise in materials prices and increase in taxes etc., till the delivery of the overall consignment. No request in regard to increase in the price of instruments or in taxes etc., will be entertained after the submission of the tender.

2.22 The nomenclature of the Instruments and spares will be invariably same in proforma invoice, invoice, packing list and in other relevant papers in case the bidder is asked to supply the instruments against his offer.

2.23 With the submission of his tender the bidder accepts the conditions of the tender.

2.24 If the Instrument/item, *etc.*, supplied is of specifications other than asked for in the supply order(s) it will have to be replaced at their risk and cost. No freight and other charges for export and re-shipment will be paid by the Institute.

2.25 The installation of the instrument(s)/items, *etc.*, is the entire responsibility of the supplier. It must be done either by the principal/supplier or their authorised agents within one month of the receipt of the instruments by the Institute. The supplier of agent should be in touch with the Administrative Officer of the Institute to know the exact day of receipt of stores supplied/dispached by them.

2.26 The list of instruments/items, their approximate quantity and their detailed specifications are given at **Annexure – VI** of this document. **For all items the point of delivery is GBPNIHESD, Kosi-Katarmal, Almora, Uttarakhand.** The quantity mentioned in the tender document may be reduced or increased at the discretion of the competent authority in the Institute without assigning any reason.

2.27 Each and every folio of the tender must be signed by the bidder.

2.28 Bidder can quote the rates for all the instruments or some of the instruments. The bid shall be considered only for those instruments for which the rates have been specifically quoted. The Institute further reserves the right to accept the tender for all the instruments or some of the instruments for which the tenderer has quoted the bid.

2.29 The instrument for which tenders are invited will have to be supplied within 30 days for LCB and 90 days for ICB from the date of issue of supply order. In case of non-observance of delivery period of supply not in accordance with the supply order the supplier has to pay default compensation at the rate of 0.5 per cent of the total value of order per concluded week of the default, but not exceeding 5 per cent of the total value of orders.

2.30 The after sales services is most important to be considered for comparison bids from firms who do not have Indian agents to provide after sales service & service during warranty period, will not be entertained.

2.31 In the case of imported instruments, the quotations from principals, will only be considered. The quotations if any received from Indian Agents on behalf of their principals, will not be considered. The agency commission will be paid in Indian Rupees. Therefore, the charges on account of agency commission should be clearly mentioned. In the case of indigenous instrument price should be quoted on FOR Institute basis and in the case of imported instruments the price should be quoted on FOB basis.

2.32 The foreign bidders must indicate the following information in their proforma invoice.

- a) Country of Origin
- b) Post of shipment
- c) Name & address of beneficiaries Bank with Account No.
- d) Minimum delivery period
- e) Whether transshipment/part shipment is required or not
- f) Agency commission, if any, payable to the Indian Agent

2.33 The items have to be supplied in standard packing. The foreign supplier should use the minimum possible packets and should reduce the size of the packing in volume to avoid extra demurrage in the bonded warehouse in India, if any.

2.34 In case of Foreign suppliers, they will have to ensure shipment of the consignment as per the validity of the Letter of Credit established in this regard. In case of extension of supply date is sought, the bank charges towards the amendment of L.C. will be borne by the beneficiary/supplier.

2.35 If the instrument supplied is found defective/unsatisfactory condition/short supply/other than specifications in the Purchase order(s), the same will have to be replaced at the suppliers risk & cost. No freight & other charges for export & reshipment will be paid by the Institute.

2.36 Foreign principals/their authorized Indian agent shall intimate the buyer regarding the shipment well in advance.

2.37 At any time prior to the deadline for submission of bids the buyer may for any reason whether at its own initiative or in response to a clarification requested by a prospective bidder modify the bidding document by an amendment.

2.38 The amendment if any, will be brought to the notice in writing or by fax or cable to all concerned bidders who have received the bidding documents and will be binding on them.

2.39 In order to afford prospective bidder reasonable time in which to take the amendment into account in preparing their bids, the buyer may at its discretion, extend the deadline for the submission of bids.

2.40 The prices must be quoted item wise *i.e.*, basic price, taxes, packing, forwarding, handling and transportation charges, insurance, installation charges, *etc.* The charges must be quoted clearly and not in vague terms like "As Actual," "Approx," *etc.*

2.41 If according to the bidder, the tendered documents contain certain unclear points which could influence price calculations, the bidder has to inform the authority who is issuing the call of tenders before submission of his tender, either in writing or by fax/cable, even if he has pointed out this earlier in any other form/reference.

2.42 The packing, forwarding, insurance and transportation charges must be quoted according to the place of delivery as mentioned in the schedule at **Annexure – V**. The supplier will be held liable for any damage, theft or loss during transit. The instruments are to be dispatched to the respective places directly and to be installed there by the supplier under intimation to the G.B. Pant National Institute of Himalayan Environment and Sustainable Development at Kosi-Katarmal, Almora.

2.43 The delivery of stores in case of foreign supply shall be taken at New Delhi. The price indicated should be on FOB basis. Please note that proforma invoice must be separate for each instrument/item.

2.44 Provision for customs duty exemption will be made by the Institute.

2.45 **MOST IMPORTANT**

PLEASE NOTE THAT ANNEXURE - I OF THIS DOCUMENT MUST BE ENCLOSED WITH THE FIRST PART OF BID *i.e.*, "TECHNICAL AND COMMERCIAL BID" AND ANNEXURE – II, III AND IV WILL BE KEPT IN THE SECOND PART OF BID *i.e.*, "PRICE BID"

2.46 PLEASE NOTE THAT THERE IS NO NEED TO ENCLOSE THE ENTIRE TENDER DOCUMENT (SUPPLIED BY THE INSTITUTE) WITH YOUR BID. ONLY ANNEXURE - I, II AND III NEED TO BE ENCLOSED AS PER INSTRUCTION STIPULATED IN PARA 2.45 AND OTHER RELEVANT PARAGRAPHS OF THIS BID.

3. **PAYMENT CONDITIONS**

3.1 Payment, 100% shall be released only after satisfactory installation of equipment. No advance payment shall be allowed in any case. The defective, substandard and contrary to the specifications of instruments/furnitures/items supplied have to be replaced by the supplier at their

cost and responsibility. In the case of International Competitive Bidding, payment will be made by opening a Letter of Credit.

3.2 In case several bills are presented, against one order, the reference of supply order and other details should be mentioned in each and every bill.

4.0 SETTLEMENT OF DISPUTE, ARBITRATION

4.1 All disputes or difference arising out of or in connection with the contract and supply of any item/equipment assigned under the same (whether during the progress of the works or after their completion, determination, abandonment or breach of the contract) shall be referred to a team of three member arbitrators appointed by the Director, G.B. Pant National Institute of Himalayan Environment and Sustainable Development. The arbitrators shall elect an umpire among them. In case of conflicting findings by the arbitrators the decision of the umpire shall be final and binding. It will not be an objection to any such appointment that the arbitrators are the Government servants and had any interest in the Institute or the contract entered into directly or indirectly. In all cases, the arbitrator shall state their decision in writing if, amount of claim in dispute is Rs. 50, 000/- and above, subject as aforesaid the provision of the Arbitration Act, 1940 or any statutory modification or reenactment thereof and the rules made the tender and for the time being in force shall apply to the arbitration proceedings under this clause.

4.2 It is a term of the contract that the party invoking the arbitration shall specify the dispute or disputes to be referred to the arbitration under this clause together with the amount or amount claimed in respect of each such dispute.

4.3 It is also a term of the contract that if the supplier(s) do not make any demand for arbitration in respect of any claim(s) or dispute in writing within 90 days of submission of the final bill for payment, the claim of the supplier will be deemed to have been waived and absolutely barred and the Institute will be discharged and released of all liabilities under the contract in respect of these claims.

4.4 The courts at Almora shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

5.0 FORCE MAJEURE

5.1 Vendor shall not be considered in default if delay in delivery occurs due to causes beyond his control such as acts of God, natural calamities, civil wars, strikes, fire, frost, floods, riots and acts of usurped power. Only those causes which have a duration of more than 7 calendar days shall be considered cause of force majeure. A notification to this effect duly certified by the local chamber of commerce/statutory authorities shall be given by the vendor to the Institute by registered letter. In the event of delay due to such cases a length of time equal to the period of force majeure or at the option of the Institute the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of Institute. In the event of such cancellation the vendor shall refund any amount advanced or period to the vendor by the Institute and deliver back any material issued to him by the Institute and release facilities, if any, provided by the Institute.

ANNEXURE I

APPLICATION FORM

(To be filled by the bidder)

- 1) Name and full address of the bidder including telegraphic address/fax no.
- 2) Name and designation of the head of the Firm/supplier and his telephone/fax no.
- 3) (i) In case the supplier is located of the country his contact address/authorized distributor's or agent's address in the Country, if any

(ii) Name, designation, address, telephone numbers of the authorized person who may be contacted during the process of the purchase concerned under this document (applicable for all suppliers)
- 4) Whether earnest money deposited Yes/No
- 5) If yes, demand draft no., date and name of issuing bank
- 6) Validity of tender
- 7) If the tender conditions are accepted in full (reply in yes or no)
- 8) Income tax clearance certificate attached (latest) (reply in yes or no)

Place
Date

Legally binding
Signatures with stamp

Annexure - II

**Details showing quantity, specification and other details of the items offered
(to be filled by the bidder and must be kept in “price bid” part of the tender)**

Item code. as per our documents	Name of the item	Specification offered by the bidder	Difference in specification of tender document and that of bid, if any	Quantity required	Unit rate	Terms and other expenditure & insurance and freight (in case of foreign bid)	Total amount
1	2	3	4	5	6	7	8

1. Supply & Installation of Noiseless 125 KVA DG Set

Note: If this sheet is not sufficient to accommodate the bid additional sheets containing the same proforma may be used. But all such sheets, including this one must be signed by the bidder along with the seal. In case of foreign bidder this Annexure must be enclosed in the proforma invoice, instrument/item-wise.

ANNEXURE III

BREAK UP OF PRICE

S.No.	Details of Item	Unit	Qty.	Rate/unit (Rs.)	Amount (Rs.)	Remarks
1.	Engine with mounted accessories	Each				
2.	Alternator	Each				
3.	Control Panel	Each				
4.	Radiator assembly with motor	Each				
5.	Batteries	Set				
6.	Acoustic enclosure with base frame	Each				
7.	Daily Service Tank/Base tank	Each				
8.	Hospital grade muffler	Each				
9.	Thermal insulation and al. cladding exhaust muffler and piping	Mt.				
10.	Earthing system	Each				
11.	Lubricating oil piping (Specific sizes & quantity)	Mt.				
12.	Fuel Oil piping (Specific sizes & quantity)	Mt.				
13.	Exhaust Piping (Specific details & quantity)	Mt.				
14.	Flexible piping connections (Specific details & quantity)	Mt.				
15.	Control Cable (Specific sizes & quantity)	Mt.				
16.	Power Cable (Specific sizes & quantity)	Mt.				
17.	Building materials	Lot				
18.	Miscellaneous Accessories	Lot				
19.	Installation, Testing & Commissioning	Job				
20.	Fuel pump	Each				
21.	Any other terms or details					
		Total				

Taxes, Duties etc:

Note: Details of quantities and adjustment rates to be indicated wherever applicable.

Signature of the tenderer

Date:

ANNEXURE IV

UNDERTAKING

To
The Director
G.B. Pant National Institute of Himalayan Environment and Sustainable Development
(Ministry of Environment, Forests & Climate Change, Government of India)
Kosi-Katarmal, Almora 263 643, Uttaranchal, India.

Date:

Sir,

Having examined the conditions of tender document and specifications of the various items, the receipt of which is hereby acknowledged. We the undersigned offer to supply, delivery and install the following:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

(Please add additional pages, if required)

The above supply, installation shall be in conformity with the specifications and conditions of supply of a sum of Rs. (US \$)

We undertake if our bid is accepted to deliver the items quoted by us, we shall deliver and install within a period indicated by us in our offer.

We agree to abide by this bid for a period of 90 days from the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before expiration of that period.

We are submitting a demand draft for Rs. /US \$
in favour of G.B. Pant Institute of Himalayan Environment and Development payable at Almora towards earnest money.

This bid, together with your written acceptance thereof in your notification of award shall constitute a bidding contract between us.

We understood that you are not bound to accept the lowest or any bid you may receive.

Dated this , day of 2016

Signature of authorized person
Name with stamp and full address

ANNEXURE V

SCHEDULE OF EARNEST MONEY

Sl. No.	Name of the Instrument/ equipment	Qty	Amount of Earnest money in Indian Rupees
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Annexure VI

Specification for Supply & Installation of Noiseless 125 KVA DG Set (List Attached)

CHECK LIST FOR THE BIDDER

- 1) Bid on original tender form only.
- 2) Earnest money or necessary documentary proof for exemption of earnest money with the part I of the bid.
- 3) Price bid must be Part II of the bid in the form provided at Annexure II of the tender document
- 4) The basic price, taxes, packing, forwarding, handling, transportation, insurance, installation charges, *etc.* must be quoted clearly. Do not use vague terms like “as actual, approximately, *etc.*”
- 5) Do not use the terms “as per specification of tender documents” in respect of instruments. There should be proper write up of product(s) quoted for supported with printed leaflets, literature, *etc.*

SUPPLY & INSTALLATION OF NOISELESS 125KVA DG SET TO GBPNIHESD, ALMORA

TECHNICAL SPECIFICATIONS

1. DIESEL ENGINE

An engine of reputed make, suitable for 125KVA GENSET, Water Cooled, cold starting, compression ignition, 4 Strokes, high speed Diesel Engine developing suitable 156 BHP at 1500 RPM under NTP Conditions to IS 10002, BS 5514, DIN 6271, IS 3046 as appropriate with 10% Over load for 1 hour in each 12 Hours. The engine should be able to take 100 % load without deration upto 50°C ambient temperature

2. COOLING SYSTEM

- Heavy duty radiator with fan
- Cooling water centrifugal pump
- Coolant Inhibitor

3. EXHAUST SYSTEM

- Exhaust Silencer

4. FUEL SYSTEM

- Fuel filters
- Fuel lift pump
- Fuel oil Filter

5. LUBE OIL SYSTEM

- Lube oil cooler
- Lube oil filters
- Centrifugal by pass filters

6. INTAKE AIR SYSTEM

- Dry type Air cleaner

7. GOVERNER

- Electronic Governor/Mechanical Governor
- Electronic control panel with digital metering

8. STARTING SYSTEM

- Electric starter - 12 volts DC
- Battery charging alternator
- Hour Meter

9. COUPLING ARRANGEMENT

- Flywheel to suit single bearing alternator
- Flywheel housing (SAE housing)
- Inbuilt AVM pads to reduce vibrations and eliminate misalignment of engine and alternator.

10. SAFETY CONTROLS / ENGINE INSTRUMENT PANEL (ENGINE MOUNTED)

- Starting switch with OFF/ON/START KEY
- Water temperature display
- Lube oil pressure display
- RPM display
- Tachometer with hour meter

11. ALTERNATOR

Synchronous brushless, single bearing alternator, rated at 125KVA/100KW, suitable for continuous operation at 1500 rpm generating 415 volts at 0.8 power factor (lag) suitable for 50 Hz, 3 phase, 4 wire system.

12. VIBRATION INSULATION

Specially designed poly bond anti-vibration mounts for vibration insulation should be used between engine/alternator and base frame.

13. FUEL TANK

Base fuel tank of sheet metal (14 SWG), having a capacity of ≥ 200 litres, duly fabricated and painted, complete with drain valve, air vent, level indicator, inlet and outlet connection, locking arrangement to avoid theft of oil, and housed in the base frame.

14. BATTERY

One number battery or as required for starting of 12 volts, 150 AH of reputed make, preferably Exide, Okaya, Luminous, provided inside the enclosure.

15. AMF CONTROL PANEL

The panel shall be equipped as follows:

Power Circuit

Metering

- One voltmeter with selector switch
- One ammeter with selector switch
- One frequency meter
- Fuel level gauge

Set of push buttons, selector switches and indicating lamps

- Push button for engine start
- Push button for engine stop
- Indicating lamps for "Load On" and "Set Running"
- Master selector switch for auto/manual/test/off
- Push buttons for test, reset and acknowledge
- Indicating lamp for "Set fails to start".

16. EMISSION

The diesel engine shall comply with the emission limits given in G.S.R. 371, dated 17.05.02 and G.S.R. 520, dated 1.7.2003 (irrespective of the date of implementation given in the notification) and certified as per emission norms of GOI already notified.

17. ACOUSTIC ENCLOSURE

- Acoustic enclosure should be integral part of the Genset.
- A provision for emergency shut-down from outside the container should be made
- Control panel should be mounted outside the enclosure.
- Engine should carry warranty of respective manufacturer for diesel generating set in enclosure
- The acoustic enclosure shall be rain/water proof.
- Preferably the enclosure shall be modular construction with the provision to assemble and dismantle as per site conditions
- The enclosure should be fabricated out of CRCA sheet of 14 SWG
- The sheet metal components should be dip seven tank pretreated
- To have long life of the enclosure it should be P.P. based powder coated (inside as well outside). All nut and bolts hardware's be Zinc coated or Stainless Steel.
- Fuel tank at the base of the DG set should have minimum capacity of 200 litres. It should be provided with breather, drain plug, fuel gauge meters to indicate fuel level and locking arrangement to avoid theft of oil.
- There should be provision for filling the fuel from outside
- Battery should be accommodated in a separate tray in the enclosure

- There should be provision for drain plugs for draining Mobil oil/diesel from out side the enclosure.
- The doors to be provided with high quality EPDN gaskets to avoid leakage of sound
- The lockable type door handles should be provided.
- A provision for emergency shutdown from outside the container should be made

The D.G. Set should comply with the noise limit of 75 db(A) at 01m from the enclosure surface and other requirements given in and as per the document "System & Procedure for Compliance with Noise Limits for Diesel Generator Sets (upto 1000 KVA)" issued by CPCB.

18. FUEL CONSUMPTION

Engine should be capable of providing fuel consumption of ≥ 4 units/lit. of diesel, between 80 to 100% load as per BS 5514.

19. MANUALS

- Engine operation and maintenance manual
- Alternator manual with Parts catalogue
- Engine maintenance schedule
- Warranty card
- Engine routine test certificate

20. INSTALLATION

- a. The base of the Genset shall be minimum 30cm from the ground level so that the oil/fuel can be drained out easily.
- b. The ground up to 01m around the Genset shall be made of cement concrete platform of mix 1:2:4 (1 Cement, 2 Coarse Sand, 4 Stone Chips 20mm).

Schedule of Work and Supply

S. No.	Description	Qty.
1	Supply of 125KVA Noiseless DG set with acoustic enclosure as per enclosed technical specification	One
2	Fuel System: Min. 200 litres fuel tank at the base of DG set by 14 mm M.S. pipe (C class) with fuel fitting NRV etc. with effective locking arrangement	One job
3	Transportation, unloading and placement of DG set to site	One job
4	3 phase, 200, 415 Volt AMF AMF Control Panel	One
5	Preperation of concrete slab with load bearing capacity sufficient to take dead load of DG set	One job As per site
6	Earthing system 600x600x6 mm G.I. plate, G.I. strip 25x25x6 mm, 32 mm dia. G.I. pipe including fittings, Charcoal, Salt and Hodi Cover	Five nos.
7	Copper strip 25x6 mm	As per site (approx. 80 m)
8	Supply and Cabling system 3.5 Core Al. armored cable 185 sq. mm with gland and thimble	As per site (approx. 150 m)
9	Supply and cabling Control cable 2.5 Sq. mm 12 core	As per site (approx. 80 m)
10	Connection with Main/Emergency Distribution Panels along with modifications in Main/Emergency Panel at GBPNIHESD, Himadri Guest House, Almora	As per site
11	Exhaust system: Provision of M.S. pipe of suitable diameter (class B pipe) to height 5 mtr. The size of the pipe should be such that there is no back pressure beyond allowable limits. Suitable M.S. flange, nuts & bolts with support brackets & structure, Al. Cladding on thermal insulation to be provided	As per site As per site
12	Semi Rotary Diesel Pump	One
13	Clearance from various department	One job
14	Testing & Commissioning	One job

SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS

S.No.	Details of Particulars	Guaranteed date	Remarks
I	Engine		
	1. Make		
	2. Type		
	3. No. Of cylinders		
	4. Arrangement of cylinders		
	5. Bore and stroke		
	6. R.P.M.		
	7. Method of starting		
	8. Compression pressure		
	9. Compression ratio		
	10. Max. cylinder pressure		
	11. Piston speed		
	12. Fuel injection type		
	13. Aspiration method		
	14. Fuel injection pressure		
	15. Lubricating oil system		
	16. Lubricating oil pressure		
	17. Fly wheel		
	i) Diameter		
	ii) Weight		
	iii) Is it balanced dynamically		
	18. Cyclic variation		
	19. Time required for starting		
	20. Type of governor		
	21. Guarantee performance of governor		
	a) Permanent variations with		
	i) Full load thrown off		
	ii) Full load thrown 'on'		
	b) Temporary variations with		
	i) Full load thrown off		
	ii) Full load thrown 'on'		
	22. Head speed regulation limits		
	23. Fuel oil recommended		
	24. Lubrication oil recommended		
	25. BHP at site at output shaft/coupling		
	26. Overload capability		
	i) Full load		
	ii) Half load		
	27. Mechanical efficiency		
	28. Standard mounting accessories on engine		

29. Safety shutdown provision
30. Direction of rotation
31. 2 stroke or 4 stroke
32. Type of cooling at sump capacity
33. Oil
34. Any other data

II. Alternator

1. Make
2. Type
3. Governing specification
4. Full load output in KVA
5. Full load output in KW at 0.8
6. Enclosures
7. Speed/frequency
8. No. of phases
9. Is neutral brought out
10. Voltage between phase/neutral
11. Regulated band of voltage
12. Current carrying capacity of windings
13. Percentage imbalance permissible
 - i) Full load
 - ii) Other loads
14. Sanctioned over capacity at maximum Ambient Temp,
15. Short time overload
16. Efficiency
17. Temporary over load after full load run for 12 months
18. Insulation starter
19. Insulation of rotor
20. Excitation method
21. Excitation amps at full load
22. Excitation voltage
23. Air gap between starter & rotor
24. Exciter Type
25. Specification for exciter

III. General

1. Length of set over all x width overall
2. Weight of set overall
3. Head room needed for lifting/servicing
4. Weight of alternator
5. Weight of engine
6. Weight of heaviest part handled
7. Direction of rotation
8. Standard accessories
9. Radiator make & type
10. Fan diameter
11. C.F.M. of fan static pressure
12. R.P.M. of fan/type of drive

13. HP absorbed by ran
14. HP of motor drive in the case of independent motor and its specification
15. Details of other major unit assembled on set
16. Capacity of daily service tank
17. Size of service tank

IV Control panel

1. Make
2. Type
3. Overall dimensions (L x B x H)
4. Finish
5. Sheet metal size
6. Make and type of contactors/circuit breakers
7. Make and type of instruments
8. Make and type of switch fuse units
9. Other facilities incorporated

V Any other data the tenderer may like to furnish

LIST OF TOOLS TO BE SUPPLIED

S.No.	Details of Tools	Qty.	Remarks
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Date:

Signature of the Tenderer

ADDRESS OF MANUFACTURER'S PREMISES FOR THE PURPOSE OF INSPECTION

S.No.	Details of items	Makers Name	Place where equipment can be offered for routine type test & initial inspection	Name, Phone No. and Address of the person to be contacted for the purpose of inspection
1.	Engine			
2.	Alternator			
3.	Control panel			
4.	Radiator assembly			
5.	Acoustic enclosure with base frame			
6.	Daily service tank			
7.	Batteries			
8.	Piping (Rigid) Fuel Lubricating oil Exhaust			
9.	Piping (flexible)			
10.	Cables			
11.	Earthing materials			
12.	Tools			
13.	Spares			
14.	Fuel injection pump/system			
15.	Turbo- charger			
16.	Inter cooler			
17.	Alternator for batteries			
18.	Engine start system			
19.	An other items			

Date:

Signature of the Tenderer

SCHEDULE OF INSTALLATION PROGRAMME

S.No.	Details of items
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A. SUPPLY OF DRAWINGS & DETAIL WORK

B. TESTS OR INSPECTION AT MANUFACTURERS

Works/place of inspection.

- i) Engine
- ii) Alternator
- iii) Radiator assembly
- iv) Central panel
- v) Batteries
- vi) Acoustic enclosure with base frame
- vii) Daily service tank
- viii) Piping
- ix) Cables
- x) Earthing system materials
- xi) Tools
- xii) Spare
- xiii) Rest of items
- xiv) Noise limit compliance test
- xv) Emission limit compliance test

C. BRINGING MATERIALS TO THE SITE

- i) Engine
- ii) Alternator
- iii) Radiator Assembly
- iv) Control panel
- v) Batteries
- vi) Acoustic enclosure with base frame
- vii) Daily service tank
- viii) Piping
- ix) Earthing system materials
- x) Cables
- xi) Tools
- xii) Spares
- xiii) Rest of items

D. INSTALLATION PROGRAMME

- i) Foundation Work
- ii) Moving units to position
- iii) Assembly
- iv) Electrical work
- v) Earthing system
- vi) Pre-commissioning checks
- vii) Test run and adjustments
- viii) Load and system trial
- ix) Acceptance Tests
- x) Handing over

Date:

Signature of the Tenderer

ANY OTHER INFORMATION THAT THE TENDERER MAY LIKE TO FURNISH

S. No.	Data/information	Remarks
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Dated:

Signature of the Tenderer

PREFERRED MAKES OF EQUIPMENT

- | | | |
|------------------------|---|--|
| 1. Diesel Engine | - | Cummins / Caterpillar / Kirloskar / Greaves Cotton / <i>Tata</i> |
| 2. Alternator | - | Stamford / AVK / Kirloskar |
| 3. Contactor | - | GE / Schneider |
| 4. L.T Switches | - | L & T / Siemens / Alstom |
| 5. H.R.C. Fuse | - | L & T / Siemens / Alstom |
| 6. Cables | - | Gloster / KEI / Finolex |
| 7. Relays (Digital) | - | L & T / Alstom / GE / Enercon |
| 8. Meters | - | AE / IMP / Rishab |
| 9. Lead Acid Batteries | - | Exide / Prestolite / Panasonic / Amaron |