



**BIRBAL SAHANI INSTITUTE OF PALAEOBOTANY**  
(An autonomous Research Institute under the Department of Science and Technology, Government of India, New Delhi)  
**53, University Road, Lucknow - 226 007, UP (India)**  
**FAX: 0522-2740098/2740485**  
**Website <http://www.bsip.res.in>**

Tender No: BSIP/TENDER/WORKS & BUILDING/125 KVA DG/2015-16

**TENDER DOCUMENT FOR**

**Supply and Installation of 125 KVA DG SET along with control auto panel - One**

- |       |                                    |   |
|-------|------------------------------------|---|
| (i)   | Last Date of submission of Tenders | : 29.06.2015 at 12:30 P. M..                  |
| (ii)  | Date of Opening of Technical Bids  | : 29.06.2015 at 3.00 P.M.                     |
| (iii) | Date of opening of Financial bids  | : 30.06.2015 at 3:00 P.M.                     |
| (iv)  | Tender Cost                        | : Rs. 500/- ( Five Hundred Only)              |
| (v)   | EMD                                | : Rs, 20,000/- ( Rupees Twenty Thousand Only) |

Please note that the earlier tenders for the above item have been cancelled for technical reasons. Fresh Tender documents as per the specifications must be submitted for both the bids. It should be noted that the rates for each item must be quoted in the price bid, otherwise, the tenders will not be entertained.

Bidders are requested to be present at the time of the tender opening.

Technically qualified bidders will be asked to be present at the time of opening of Financial Bids.

REGISTRAR

A) GENERAL CONDITIONS :

1. Birbal Sahni Institute of Palaeobotany (hereinafter referred to as the "Buyer") 53, University Road, Lucknow – 226 007 invites separate sealed tenders for Supply and Installation of 125 KVA Diesel Generator Set.

Period of Completion: 2 Weeks

2. Tender Document can be downloaded from our Website: <http://www.bsip.res.in>

3. This is a two part bid: PART 1 consists of TECHNO – COMMERCIAL BID, PART 2 consists of PRICE BID

4. Tenders must be submitted in two separate sealed cover, one for PART 1 superscribing "Tender for Supply & Installation of 125 KVA Diesel Generator Set - (TECHNO –COMMERCIAL BID)" due on 18.06.2015 and another for PART 2 superscribing "Tender for Supply and Installation of 125 KVA Diesel Generator Set - (PRICE BID)" should be addressed to **Registrar, Birbal Sahni Institute of Palaeobotany, 53, University Road, Lucknow – 226 007**

Both these covers to be put in one sealed cover superscribing "Tender for Supply and Installation of 125 KVA Diesel Generator Set " should be addressed to **Registrar, Birbal Sahni Institute of Palaeobotany, 53, University Road, Lucknow – 226 007**

Tender should be free from Correction and Erasures. Corrections if any must be attested.

Stapled cover & Offers sent through E-MAIL or FAX will not be accepted.

The completed Tender shall be deposited in the Registrar office in the above address on or before 29.06.2015 by 12.30 PM.

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Above terms are accepted

Place:

Signature of the Tenderer with date & seal

5. All tenders will be accepted up to 29.06.2015 by 12.30 PM the Part 1 of tender namely "Techno-commercial Bid" will be opened on 29.06.2015 at 3.00 PM in the presence of the tenderers or their authorized representatives who may choose to be present at the time of opening of the tender.

6. Part 1 of the sealed tender should be accompanied by an Earnest Money Deposit (EMD) in the form of Crossed Demand Draft drawn in favour of The Director, BSIP payable at Lucknow for Rs 20,000/- .

Bidders who are MSMED units may apply for exemption from furnishing EMD/BG in lieu of EMD by making a specific request in writing and enclosing the necessary document in support of the same.

If reason for non-submission of EMD or adjustment against the outstanding balance for EMD is not mentioned in Techno-commercial bid of tender, the tender will be rejected.

7. The EMD so deposited will be held as part of the security deposit in respect of successful tenderers. The earnest money deposit of the unsuccessful tenderers shall be refunded without any interest soon after the decision of the tender is taken, which shall not take more than two months. The earnest money will be forfeited in the case of successful Tenderer if subsequently refuses to accept the contract or fails to execute the contract

8. The tenderer shall peruse the General, Technical and Commercial and Price Bid, specifications etc. before the submission of the tender.

9. Any deviation to the enquired technical and commercial conditions shall be clearly indicated in the covering letter of the quotation.

10. All the documents shall be returned with the tender duly signed on every page as a token of acceptance of the condition

11. All the rates given in the tender should be written both in figures and in words. In case of any difference between the rates in figures and in words, the rates in words will prevail.

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12. Any tender which proposes any other conditions of any description whatever, is liable to be rejected.

13. Should the tenderer find any discrepancy, omission, ambiguity or conflict in the documents forwarded or be in doubt as to their meaning and interpretation shall bring to the knowledge of the Registrar, Birbal Sahni Institute of Palaeobotany, 53, University Road, Lucknow – 226 007, not later than 7 days prior submission of the tender.

14. The Buyer reserves their right to accept or reject any or all tenders without assigning any reason whatsoever.

15. The acceptance of tender shall rest with the Buyer who does not bind himself to accept the lowest or any tender.

16. Tenders shall be valid for a period of 120 Days from the date of tender opening.

**17. Tenderers should submit the complete check list in the techno-commercial bid as shown in Clause D (Check List)**

18. Only supplier who have supplied similar (or) higher capacity DG set supplied, erected, commissioned in the past **2 years should only quote. Proof to be enclosed.**

19. The agreement will be signed by the corporation and the tender notification; condition of the contract, specification shall form part of this agreement. The cost of all stamp paper for executing this agreement and all the legal expenses incidental thereto shall be borne by the successful tenderer. Payment for the work will be made on the basis of this agreement and supplemental slips if any, mentioned in the conditions of the contract.

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21. The tendered rates shall be inclusive of all incidental charges except taxes as applicable.

22. In the event of the tender being submitted by the firm, the person signing the tender on behalf of such firm must enter his name and state his connection with the firm. He should submit papers in original authorizing to tender on behalf of the firm.

23. The contractor shall not without the previous sanction of this Corporation in writing execute any power of attorney in respect of any matter touching this contract. A power of attorney executed without such sanction shall not be recognized by or binding up on the Corporation. It shall be within the discretion of the Corporation either to grant such sanction or refuse it or to revoke a sanction once given.

24. No responsibility is accepted for postal delay.

25. Any offer received either by post or by hand delivery after the date and time specified for, shall not be accepted

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**B) TECHNO -- COMMERCIAL BID:**

Techno – commercial bid should contain the following:

1) The Performance letter for satisfactory working of the DG set being sold to the various firms/organizations should be enclosed along with the offer.

**2) EMD**

The tender should submit EMD along with Techno-commercial bid of Tender for Rs: 20,000/- as per clause 6 of General conditions. Tenders received without EMD will be rejected and will not be opened.

Offers received without any of the above (1-2) will be rejected.

**4) DELIVERY**

Delivery time is essence of the contract and the work must be carried out with diligence strictly in accordance with the delivery schedule of 2 months from the date of Letter of Indent.

If any work / delivery fall beyond the schedule, the buyer reserves the right to terminate the contract for the said work/equipment, without prejudice to his right under the contract to recover damages / get the work executed by another agency.

**5) LIQUIDATED DAMAGES**

Liquidated and ascertained damages as provided in the contract will be levied if the work is not completed in time at the rate of 0.5 % of price per week of delay with a ceiling of 5%. Any fraction of week also will be counted as one full week only.

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## 6) PRICE

The Tendered Price should be firm, no variation in the tender prices will be allowed due to fluctuations in the market prices of any raw materials, plant consumables, labour or any other account. The tender price should also have erecting & commissioning charges (Inclusive of civil works) separately. The Tenderer should quote for delivery of the equipment at our office premises at 53, University Road, Lucknow – 226 007 (UP)

## 7) EXCISE DUTY & SALES TAX

The Contractor will have to indicate the applicable rate of Excise Duty & Sales Tax in terms of percentage and quantum in the Price Bid. In case Turn over tax etc. are applicable, the same should be clearly mentioned in the Price Bid with applicable percentage rate and quantum. All the incidence of Taxes & Duties and applicable modvat will be taken into consideration for the evaluation of Tender. No Taxes and Duties other than what is specifically mentioned in the Price Bid with applicable rate and quantum will be reimbursed.

## 8) GUARANTEE PERIOD

The equipment must be guaranteed for a minimum period of 24 months from the date of supply or 18 months from the date of commissioning whichever ever is later.

## 9) PERFORMANCE GUARANTEE

As a guarantee towards performance of the equipment valid undertaking to be given by the dealer / supplier for the performance of the generator during the warranty / guarantee period.

## 10) TRANSPORTATION

The equipment should be transported to our office at 53, University Road, Lucknow – 226 007 (UP). The freight should be borne by bidder. However, the freight amount to be indicated in the price separately.

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### 11) TRANSIT INSURANCE

The equipment shall be insured to cover any risk during transit from your works and during storage at our site before commissioning.

### 12) TERMS OF PAYMENT

- a) 90 % upon receipt and acceptance of material
- b) 10% after completion of erection, testing & commissioning of Diesel Generator.

No advance payment will be given to vendor.

### 13) RISK PURCHASE CLAUSE

The company reserves the right to impose risk purchase clause as " For delay in execution/ supply we shall have every right to do the same through some other agency/s which shall be deemed fit and the additional cost of the same (Incidental/Consequential) shall be to your account which with respect to our intimation or observation whatsoever.

### 14) LEGAL CONDITIONS

Any contract entered against this tender will be as per the following legal condition:

It is recorded that this purchase order/contract/ agreement is executed and concluded by and between the parties hereto at premises 53, University Road, Lucknow – 226 007 (UP) and in the event any dispute arises out of this agreement between the parties only the appropriate Court in the Lucknow shall have the exclusive jurisdiction to entertain, try and determine the said proceedings in exclusion of all other courts.

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C) Technical specification for 125 KVA, 415V, 50Hz, 3Phase D-G set for BSIP.

SCOPE OF THE WORK

Supply, installation, testing and commissioning (including civil work) of 125KVA, 415V, 50Hz, DG-Set with weather proof acoustic enclosure, LT distribution switch gear panel for providing stand-by source of power supply. **It should be noted that the DG Set supplied must be original (i.e. from manufacturer); assembled generator set will not be acceptable.**

**DETAILED SPECIFICATION FOR DIESEL ENGINE AND GENERATOR SET**

Diesel Engine (Suitable capacity to drive 125KVA alternator)

Standard Scope of Supply:

Dry type air cleaner

Exhaust silencer - Industrial Type

Expansion Bellow

Lube oil Cooler

**Power contractor minimum  
of 200Amp**

Full flow lube oil filter

In-line engine fuel injection pump

Governor and fuel feed pump

Flywheel with starter ring 12V

electric starter motor Battery  
charging alternator

Engine control panel should consist of

On/Off/Start Key

Lube Oil Pressure guage

Battery charging ammeter

'V' Belt failure switch

Suitable coupling switch

Engine mounting switch

**Four cylinder engine developing suitable BHP (not less than 154) with mechanical governor.**

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Place:

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Earth pit needed – Neutral (copper)

Earth pit: To provide 600 x 600 x 6mm GI earth electrode and 50mm dia GI pipe 3mts long with all its accessories (including 25 x 5 mm inside the pit with brazing), including excavation, backfilling, disposal of derbies of excess material, repairing of floor and making good the same. Making of chamber with RCC heavy duty cover as required, testing complete as per specification. Earth pit shall be of size 600 x 600 x 3000mm. Cost to include for brick chamber, funnel arrangement. Earth test link complete in all aspects. Chamber size 450 x 450mm. Rate to be included for painting on top of the cover for its identification.

To supply and lay hot dipped, Copper strip of 25 x 5mm and connection with earthling. All the strips and joints to be welded and painted with cold galvanized paint.

Alternator:

Brush / brushless alternator rated at 125 KVA / 100KW 3Phase, 415Volts, 0.8P.F, 50Hz, 4wire self regulated and self excited with voltage regulation of + or –5% with class “H” insulation in SPDP enclosure and generally conforming to IS 4722 / BS 2613.

Control Panel:

Fabricated sheet steel construction, floor mounting indoor type, dust and vermin proof, inner hinged panel with un-drilled removable bottom plate incorporating the followings:

MCCB

Voltmeter

Voltmeter selector

switch Ammeter

Ammeter selector switch

Indicating lamps for set run / Load

On Set of control Fuses

Set of current Transformers

Input Terminal Board

Output Terminal board with a. Earth Fault Relay,

b. kW Meter,

c. kWH Meter

**AMF Panel must also be supplied through manufacturer.**

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Place:

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Accessories:

**Fuel Tank – Should not be less than 200 lit**

Suitable designed sheet metal or fabricated channel iron base frame Batteries: 1No's, 12V, 180AH with connecting leads.

Other works:

Supply and fixing of new 320Amps 4 Pole switch gear .

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Above terms are accepted

Place:

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Performance parameters:

The average sound level when measured in Green field condition (ISO 3744 or 8528 PT 10) at 1-meter distance from all the four sides should be less than 75 Db average.

The average stabilized hot air pressure rise with in the canopy should be maintained with in 10°C over and above ambient temperature.

Mounting:

Design, Fabricate suitable base frame, which is a welded construction using channel iron etc. to mount DG Set.

Foundation:

Details to be submitted.

Earthing:

The genset neutral should be earthed with 2No's of copper plate earthing as per BS 6043.

Tests:

Supplier shall perform all standard tests (Shop tests) on Engine and alternator and the test reports pertaining to the engine and alternator should be submitted.

Commissioning:

Supplier shall perform the following tests at site to the satisfaction of NAL

Testing the set in Auto / Manual / Test modes.

Testing for all Interlocks

Full load test on the set for Eight hours

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LT distribution switchgear Auto panel

Design, fabrication & supply of Indoor L.T. 415V distribution switchgear Panel made out of 16 SWG CRCA sheet steel Enclosure with powder coated matt grey finish. The panel shall have proper supporting and mounting structure of suitable size 'u' channel, provision for grouting. Provide sufficient clearance between live and non live parts as per standards.

The panel should have 14 SWG gland plate. Cable alley and bus-bar chambers should be provided.

Requirements in panel

INCOMER : - 1No. of 630A, 415V SDF with 400A fuse FEEDERS :

- a) 2 Nos. of 200A, 415V TP&N SDF. With fuse
- b) 1No. of 100A, 415V TP&N SDF. With fuse

Metering & Indication

0-500V digital voltmeter of size 96 mm square with selector switch.

CT operated 400/5A digital Ammeter 3 ½ digit of size 96 mm square with selector switch.

1 Set of Measuring CT 400/5A, class-1 for all the Three Phases.

3 Nos. of 22.5 mm dia 230V Cluster LED type Phase indicating lamps for R,Y, B.

Separate control Fuses 2/4A, for Voltmeter, indication circuits.

Use 2.5 sq. mm. Copper multi strand wire for measuring and control circuit.

**AMF Panel must also be supplied through manufacturer .**

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Place:

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D) Check List

i) General

Description	Required	Offered	Remarks
EMD for Rs : 20,000/-	To enclose DD/MSME copy		
Techno commercial bid (Part 1 ) & Price Bid (Part 2)	To submit in two sealed covers separately		
Tender documents duly signed in every pages.	To be returned		
Supplied similar or higher capacity DG set supplied, erected, commissioned in past 2 years	To be submitted		
Performance letter for satisfactory working of DG set being sold to various firms / organizations	Minimum two certificate to be submitted		

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**PRICE BID**

Sl. No.	Item Description	Qty	Unit Price/Rate	Total Price
1	Basic Price	1 set		
A	Packing charges			
B	Transport from your point to our office at			
	53, University Road, Lucknow -226007 (UP)			
C	Unloading & Positioning Charges			
D	Transit Insurance			
2	To provide installing, testing and commissioning of			
	copper plate earthing station using 600x600x6mm			
	copper plate including excavation, back filling	4 Nos		
	construction			
	of inspection chamber, chamber cover and 50mm dia			
	GI pipe 3mtrs long with all its accessories			
	(including 25x5 inside the pit with for neutral )			
3	Supplying and laying of copper flat (25x5mm) earthing	2 Nos		
	for neutral earthing for AMF Panel			
4	AMF Auto Panel as per tender page no.13	1 No		
5	Excise Duty			
6	Sales Tax			
7	Any other taxes if any			
	Total Cost			

Place:

Signature of the Tenderer with date & seal