

National Highways & Infrastructure Development Corporation Ltd.
(A Public Sector Undertaking under the Ministry of Road Transport and Highways,
Govt. of India)

NHIDCL Regional Office-Itanagar
Niti Vihar, VIP Road
Near Banquet Hall
Itanagar
Arunachal Pradesh - 791111

NOTICE INVITING TENDER (NIT)

F.No. NHIDCL/ RO-ITANAGAR/0003/2021-22

29.07.2021

Name of the Work: "Supply, Installation, Testing and Commissioning of 01No. Diesel Generator Set (30kVA, Single Phase) for NHIDCL, Regional Office at Itanagar"

1. National Highways & Infrastructure Development Corporation Limited (NHIDCL), a fully owned company of the Ministry of Road Transport & Highways, Government of India, (called "the Buyer"), hereby invites Sealed bids under two bid system, i.e. technical bid and financial bid for the following work from OEMs or their authorized dealers, excluding those who have been declared as non-performing by MoRTH/ NHAI/ NHIDCL or those blacklisted/ debarred for specified period by MoRTH/ NHAI/ / NHIDCL and against whom such action is under process by MoRTH/ NHAI/ NHIDCL.

Sl. No.	Name of work	Specifications	Supply Period
a.	Supply of 30 kVA DG set (Single Phase) with AMF panel & acoustic enclosure	Detailed Specification requirements placed at Annexure -II	Supply within 15 days from placing of the order.
b.	Installation, Testing & Commissioning of 30 kVA DG Set with foundation, construction of earthing pits (terminals) & terminations		

2. Bids should be valid for a minimum period of 30 days.
3. Scope of supply (Bid price to include all cost components): Supply, Erection, Installation, Testing, Training and Commissioning of brand new Diesel Generator Set in the premises mentioned at para (18). Space for accommodating the installation and erection of Generator will be provided by the purchaser.
4. Contracted goods should be delivered at the consignee or designated delivery location as per the working time of the buying organisation. Seller may get the same confirmed from consignee before scheduling delivery.
5. Before quoting, the bidder shall inspect the site, to fully acquaint himself about the condition in regard to accessibility of the site, working condition of site, locality including installations of tools and plants (T&P) and local authority regulations / restrictions if any, conditions affecting accommodations and movement of personnel etc. required for the satisfactory execution of

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the work contract. No claim whatsoever on such account shall be entertained by the NHIDCL in any circumstances.

6. Manufacturer authorization: Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM should be provided.
7. The detailed tender document can be viewed from the website www.nhidcl.com from 29.07.2021 to 06.08.2021 up to 1500 Hrs.
8. The Amendments/clarifications to the bid document, if any, will be hosted on the above website only.
9. Every page of Technical as well as Financial Bid should be duly signed by the bidder. NHIDCL reserves the right to accept or reject any bid if it is not duly signed.
10. Conditional bids would be rejected.
11. The bidder should not be black listed by any Govt. organization /PSU during the last 3 years.
12. Submission of Bid:

The offer/proposal should be submitted in two separate sealed covers consisting of

- a. Technical proposal in the specified format as at Annexure-I&II along with copy of GST Registration Certificate of the firm, PAN Card and Copy of this NIT duly signed with seal of the firm, in token of acceptance of terms and conditions.
- b. Financial proposal as specified in the Annexure-III

Both these covers should be super scribed as "Technical proposal" and "Financial Proposal" respectively and should be kept in one sealed cover marked "BIDS FOR SUPPLY OF 01NO. DIESEL GENERATOR SET (30KVA, SINGLE PHASE, 50HZ) WITH COMPLETE INSTALLATION FOR NHIDCL, REGIONAL OFFICE AT ITANAGAR." The sealed cover must be sent to **The Executive Director (P), NHIDCL Regional Office, Niti Vihar, VIP Road, Near Banquet Hall, Itanagar, Arunachal Pradesh - 791111** by Speed Post/ Courier/Registered Post by 1500 hours on 06.08.2021. Bids not received in the prescribed pro-forma will be liable to be rejected. No bid shall be entertained after this deadline under any circumstance whatsoever.

13. The Technical Bids will be opened at 1700 hours on 06.08.2021 and Financial Bids of only technically qualified bidders will be opened on a date to be notified later on.
14. Details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.
15. NHIDCL reserves the right to amend or withdraw any of the terms & conditions contained in the Tender Document or to accept/reject any or all bids without giving any notice or without assigning any reason thereof. The decision of the National Highways & Infrastructure Development Corporation Limited in this regard shall be final and binding on all the bidders.
16. The rates quoted shall be inclusive of customs duty, packing, insurance, transportation (door delivery) and all other incidental charges EXCEPT GST. GST will be reimbursed on submission of proof of payment of GST and rate of GST should be mentioned in the bid.
17. Payment terms: 100% payment will be made after receipt of all the items mentioned in the purchase order in satisfactory condition, as per specifications, and as per the terms & conditions mentioned, and against submission of certified invoice. Payment will be released



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by the NHIDCL Regional Office: Itanagar, having GST No. 12AAECN7759E1ZG . Payment will be made through NEFT mode in the bank details provided by the bidder.

18.Delivery terms: Consignment to be delivered and installed at the Office-cum-Transit Accommodation of NHIDCL Regional Office-Itanagar located at GD Apartments, Plot No. 91, Division-IV, Senki Park, Itanagar, Arunachal Pradesh – 791113.

19.Name of Consignee: Executive Director (P), NHIDCL Regional Office-Itanagar.

20.The Schedule for bidding process is as follows:

Sr. No.	Event Description	Date
i.	Uploading of RFP (NIT) on NHIDCL website	29.07.2021
ii.	BID Due Date	06.08.2021
iii.	Opening of Technical BIDs	06.08.2021
iv.	Declaration of eligible / qualified Bidders	07.08.2021
v.	Opening of Financial BID	To be intimated later
vi.	Letter of Acceptance (LOA)	To be intimated later
vii.	Validity of BID	30 days
viii.	Signing of Agreement	As per document

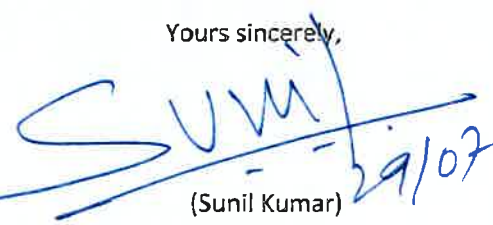
21.Delivery Period: Successful Bidder should complete delivery within 15 days from the date of award of work order.

22.Warranty Period: The warranty period should be 2 years from the date of successful completion of Supply, Installation, Commissioning, Testing and Handing over of DG Set.

23.LD Clause: If the Seller fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the P.O., the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 5% of the contract value without any controversy/dispute of any sort whatsoever. Force Majeure means an event beyond the control of the supplier and not involving the vendor's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the vendor either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

Yours sincerely,




(Sunil Kumar)
Executive Director (P)
NHIDCL Regional Office
Niti Vihar, VIP Road, Itanagar
Arunachal Pradesh – 791111
Email: roitanagarnhidcl@gmail.com

FORMAT-A
(In Bidder's Letter Head and Enclosed in Sealed Technical Bid)

GENERAL INFORMATION ABOUT THE BIDDER				
1	Name of the Bidder			
	Registered Address of the firm			
	State		District	
	Telephone No.		Fax	
	Email		Website	
Contact Person Details				
2	Name		Designation	
	Telephone No.		Mobile No.	
3	<u>GST Registration</u> Please mention the GST/TIN number: _____ (Furnish the copies of the GST registration certificate)			
4	PAN Number: _____ (Furnish the copy of the PAN Card)			
5	Bank Details of the Bidder: The bidders have to furnish the Bank Details as mentioned below for Payment purpose.			
	a. Name of the Bank :			
	b. Full address of the Branch concerned:			
	c. Account number of the bidder:			
	d. Name (as mentioned in the bank account):			
	e. IFS Code of the Bank :			
Date: _____ Office Seal _____ Signature of Bidder/ Authorised Signatory _____				



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Annexure – II

TECHNICAL BIDS
(In Bidder's Letter Head and Enclosed in Sealed Technical Bid)

Name of work: "Supply, Installation, Testing and Commissioning of 01No. Diesel Generator Set (30kVA, Single Phase) for NHIDCL, Regional Office at Itanagar"

The scope of above work shall include the following:

1. Supply and Delivery of Power Generator shall be complete with Diesel Engine, Alternator, Auto Start/Stop panel (AMF), Acoustic enclosure and associated cabling, earthing, safety items including packing, handling, transporting, clearing, loading/unloading etc. to NHIDCL Regional Office-Itanagar
2. Designing of details of DG set foundation and its construction, placement of DG set with acoustic enclosure, Auto Start/Stop panel (AMF) etc. along with all accessories/ components.
3. Erection, testing & commissioning of DG set as per technical specifications, obtaining statutory permissions/license from appropriate authorities and handing over the DG set to NHIDCL Regional Office-Itanagar for use.
4. Providing all-inclusive service including all spares, etc. during warranty period of new DG set.
5. All engineering, equipment, labour, and permits required for satisfactory completion of DG set installation work as per Specification
6. Any other ancillary work, related to but not mentioned above, required for satisfactory completion of the job.
7. Power Generator should have protection against under voltage, over voltage, under frequency, over frequency, low battery voltage, over current, earth-fault, short circuit, phase sequence change etc.
8. Unless otherwise in the tender documents, the following work shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost, whether specifically indicated in the schedule of work or not:
 - a) Foundations for equipment including vibration isolation springs/pads.
 - b) Making good all damages caused to the structure during installation and restoring the same to their original finish.
 - c) Minor building work necessary for installation of equipment, foundation trench for fuel line and cable, making of opening in walls or in the floors and restoring them to their original condition/ finish and necessary grouting etc. as required.
 - d) All supports for exhaust and water pipes, chimney, cables, anti-vibration pads etc. as are necessary.



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- e) All electricity work and neutral earthing, body earthing, required for engine and alternator, main board/control panels and control wiring including loop earthing, if specified in schedule of work should be done confirming to relevant BIS.
- f) The entire electrical installation work shall be carried out in general conformity with the requirements of the Indian Electricity rules, 2003, the relevant I.S. codes of practice, as amended to date, wherever applicable and the regulations of the local licensing bodies, CEA, CPB, Electrical safety inspector etc.,

9. Engine

The engine shall be the standard design of the original manufacturers. The engine shall be of continuous rated, turbo charged, Air / water cooled, electric starting, multi cylinder, 1500 RPM to be coupled to 30-KVA alternator.

10. Alternator

Alternator Voltage Rating	230 Volt
Rating of AC Generator (KVA)	30
Power Factor of AC generator	0.8
Conformity to Indian Standard (for Alternator)	Generally conforming to IS:13364 (Part-2) latest (Above 20 KVA)
Type of alternator	Brushless
Voltage Regulation Grade	VG 3
Alternator IP Rating	IP 23
Class of Insulation	H

11. Control Panel (AMF)

Automatic Mains Failure (AMF) control panel, shall be able to start up the Power Generator and transfer the load on to the Power Generator on mains failure without requiring any human intervention. Similarly on restoration of mains supply, it shall be able to transfer the load to mains supply and switch off the Power Generator automatically. Control Panel (AMF), shall be equipped with suitable Voltmeter, Ammeter, Frequency meter, power factor meter (these items can be alternatively supplied in one multifunctional digital display meter), battery charger, indicators, various switches and cutout / MCB / MCCB / Contactor / Circuit breaker for the DG output of appropriate rating and accuracy class as per trade practice for better utility.

12. Protection:

In the event of any fault due to over voltage/ high bearing temperature/ high winding temperature, or an external fault, the AVR shall remove the excitation voltage to the alternator. An emergency trip PB shall also be provided which is located outside the acoustic enclosure.

13. Earth Terminals:

Construction of sufficient earth pits (terminals) with vibration proof connections, non-ferrous hardware etc. with galvanized plate and passivated washer of minimum size 12 mm dia. Hole shall be provided along with necessary termination and testing.

14. Trial Run/ Running-in-Period:

After successful testing of the DG set, trial run at available load will be carried out for 16 Hrs.

15. Fuel tank:

Fuel tank of minimum capacity of 100 Ltrs shall be located at the bottom of the unit with provision for filling and fitted with gauge. The same shall be fabricated out of 3mm thick HR sheet

16. Starting battery:

Batteries of adequate ampere hour capacity for self-starting and to give at least three attempts at one time. Batteries supplied with DG set shall be dry and uncharged. The same shall be charged by authorized people before same is connected to DG set. Initial charging shall be done for 72-80 hrs. The batteries shall be placed on stands and relatively cool place inside the acoustic enclosure.

17. Platform for mounting of DG set:

A PCC foundation platform (1:2:4, M-20 grade) of weight 2.5 times of the operating weight of DG set and of approximate depth of 200 mm below ground surface and height of 150mm above ground surface is required so as to provide leveled surface for placement of the acoustic enclosure.

18. Canopy:

Acoustic hood for housing the above DG set to be mounted on a concrete platform. The acoustic enclosure shall be designed and manufactured confirming to relevant BIS suitable for outdoor installation exposed to weather conditions, and to limit overall noise level to 75dB (A) at a distance of 1 Mt from the enclosure as per CPCB norms under free field conditions, at 75% load.

The construction should be such that it prevents entry of rain water splashing into the enclosure and allows free and quick flow of rain water to the ground in the event of heavy rain. The detailed construction shall confirm to details as under:

- a) The enclosure shall be fabricated out of CRCA sheet of thickness not less than 1.6mm on the outside cover with inside cover having not less than 0.6mm thick perforated powder coated CRCA sheet.
- b) The hinged doors shall be made from not less than 16 SWG (1.6mm) thick CRCA sheet and will be made airtight with neoprene gasket and heavy duty locks.
- c) The enclosure should be painted with colour powder coating. The enclosure should accommodate the daily service fuel tank. There should be a fuel gauge which should show the level of fuel even when DG set is not running. The gauge should be calibrated. The fuel tank should be filled from outside provided with a lockable cap.
- d) The canopy should be provided with high enclosure temperature safety device. The acoustic lining shall be made of high quality insulation material like glass wool/ mineral wool/ rock wool with minimum of 50mm thick and 75 Kg/cubic mtr for sound absorption as per standard design of



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manufacturers to reduce the sound level as per CPCB norms. The insulation material shall be covered with fine glass fiber cloth and would be supported by perforated MS sheet duly powder coated. The enclosure shall be provided with suitable size and no of hinged type doors along the length of the enclosure on each side for easy access inside the acoustic enclosure for inspection, operation and maintenance purpose. Sufficient space will be provided inside the enclosure on all sides of the DG set for inspection, easy maintenance and repairs. The MS base frame shall be provided having lifting facility & predrilled foundation holes for installation on anti-vibration mounting (AVM pads)

19. Technical specifications for Electrical and Control panels:

The fabricated panels used for this work shall be generally wall mounted, fabricated out of 16 SWG CRCA and powder coated. The panel shall be cubicle type with Neoprene gasketed and hinged outer door with locking facility. All the components like contactors, MCBs etc shall be mounted on an MS mounting plate fixed inside the panel which can be removed in case of any defects which needs rectification or replacements of components. The components shall be fully wired and tested for correct sequence of operation. The MCB shall be mounted in such a way that their operating knobs shall be accessible after opening the outer door. The panel shall be designated with a label at the top of the panel in a permanent manner. The outer door shall be earthed to the main body through a flexible copper wire. Removable gland plates shall be provided at the top and bottom of the panel for external cable terminations.

20. Installation

The installation work of Power Generator and its constituent parts shall be generally conforming to CPWD General Specification for Electrical Works, Part - VII - latest.

Supply, laying and termination of interconnecting power and control cable shall be done by the seller. The cable supplied shall be ISI marked heavy duty PVC insulated, armoured cable, with PVC outer Sheath of Type ST-2 (FR Grade, Category C1), with aluminium conductor having insulation of PVC compound type -C, suitable for rated voltage up to and including 1100 volts and conforming to IS: 1554 (Part-1) latest.

21. Preventive maintenance visits

Successful bidder should provide two or more Preventive maintenance visits during warranty period in an year

22. Service centre and support

Service centre authorised by the OEM should be available in the Itanagar Capital Region (ICR) and should have been operational for at least last 2 years.



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COMPLIANCE TO TECHNICAL SPECIFICATION OF THE PRODUCT OFFERED (To be filled by the bidders)

Sl. No.	Parameter	Specifications	Bidders Remark
a	Rated Engine Power (kWm)	100% or 110 % of the required powered at STP(Standard Temperature Pressure) i.e equal to (Nominal Rated Capacity (KVA) of power generator + Any Auxiliary power Consumption by the Power generator) x Power factor(0.8) /Alternator efficiency Or higher	
b	Type of engine governor	Electronic/Mechanical	
C	Output capacity rating/ Phase	Nominal Rated Capacity of 30kVA No of Phase: Single Phase	
D	Installation configuration	Fixed	
E	Alternator Standards	IS-4889/BS-269, IS-4722-1992, IS-13364-part-1&2-19992, IEC-34-1-1983, BS 2613/1970, IS 4889, IP-21 as per IS-4691/85 applicable to Alternator	
F	Fuel	High Speed Diesel (HSD)	
G	Features of Engine	Direct injection Fuel System	
H	Starting Voltage	12V/24V	
I	Control Panel	AMF Control Panel	
J	Fuel Tank Capacity	100Ltrs or more	
K	Scope of Supply	Includes Supply, Erection, Installation, Testing, Training and Commissioning	
L	Warranty	24 months or more	
M	Preventive maintenance visits	Two or more Preventive maintenance visits during warranty period in an year	
N	Service centre and support	Available in the Itanagar Capital Region (ICR) and operational for last 2 years.	
o	Compliance to all clauses in Annexure-I (Technical Bid Requirements)		

Details of Document Required (To be filled by the bidders):

Name of manufacturer:

Copy of OEM authorization letter:

Signature of Bidder

Name:

Date:

Place:

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Annexure – III

FINANCIAL BID (With unit price breakup and GST)
(In Bidder's Letter Head and Enclosed in Sealed Financial Bid)

Name of work: Supply, Installation, Testing and Commissioning of 01No. Diesel Generator Set (30kVA, Single Phase) for NHIDCL, Regional Office at Itanagar

Sl. No.	Description	Quantity	Unit Rate (Rs.)	Total Amount (Rs.)
a	Supply of 30 kVA DG set (Single Phase) with AMF panel & acoustic enclosure	1Nos.		
b	Installation, Testing & Commissioning of 30 kVA DG Set with foundation, construction of earthing pits (terminals) & terminations as per specifications given in the tender	1Nos.		
A- Total Amount (Rs.)				
GST (%)				
B- GST Amount (Rs.)				
Grand Total with GST in Rs. (A+B)				

In words:

Note: Above rates shall include GST, all applicable taxes, fees, duties, levies, transportation charges, insurance charges, installation charges, material charges, labour charges and all other charges required for the successful completion of work.

Signature of Bidder

Name:

Date:

Place:

(Seal)

