



NATIONAL FERTILIZERS LIMITED

(A Govt. of India Undertaking)

Naya Nangal(Punjab)-140126 India

Materials Department

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ATC- SPX/2024/91

Sr. No.	Material Code	Description of Material	UoM	Qty	Vendor Confirmation (Yes/No/remarks)
1	8601526	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 37 KW MOTOR (for PC-1N, Urea), 3000 RPM (SYN), FRAME SIZE D-225S, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(a). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(a) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III	NO	1	
2	8601527	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 5.5 KW MOTOR (for GN-2632), 3000 RPM (SYN), FRAME SIZE 132S, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(b). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(b) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.	NO	1	
3	8601529	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 37 KW MOTOR (PC-13/101), 3000	MTR	1	

		RPM (SYN), FRAME SIZE D200L, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(c). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(c) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.			
4	8601530	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 22.5 KW MOTOR (for PC-6), 3000 RPM (SYN), FRAME SIZE 180M, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(d). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(d) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III	NO	1	
5	8601531	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 120 KW MOTOR (for PC-12), 1500 RPM (SYN), FRAME SIZE ND315M, IM3011-V1, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I, ANNEXURE-II(e) and ANNEXURE-II(e.1). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(e) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.	NO	1	
6	8601532	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 15 KW MOTOR (for PC-18W), 3000 RPM (SYN), FRAME SIZE 180M, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(f). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(f) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.	NO	1	
7	8601533	DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 7.5 KW MOTOR (for L.O 2A), 1500 RPM (SYN), FRAME SIZE 132M, B3, S1, Ins.		1	

		<p>class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(g). BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I & II(g) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III</p>			
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Note: This items is proprietary of M/s C & S ELECTRIC LTD. Only OEM OR their authorized dealer for this tender can submit their Bid. No make other than this will be accepted. Offer with other make OR from other venders straight way rejected and no correspondence in this regards shall be entertained. .

(2). Party to furnish **TENDER SPECIFIC authorization** Certificate from their Principal (in case offer is submitted by a dealer).

3) You shall furnish Interchangeability certificate that the items / spares being offered / supplied is / are exactly similar and interchangeable with already existing one.

Other Terms and Conditions

1. **Offers not submitted as per instructions are liable to be rejected.**
2. The prices should be on FOR NFL Nangal basis.
3. Rates must be quoted in the UOM "**Unit Of Measurement**" as per our ATC.
4. **PAYMENT TERMS:**
No Advance Payment shall be made. 100% payment of material supplied will be made within 30 days subject to receipt, acceptance of material at our site.

Mode of Payment: Through NEFT/RTGS by way of Electronic Fund Transfer (EFT). We have our account with State Bank of India (SBI), Naya Nangal, who has Electronic Fund Transfer (EFT) facility, in its Naya Nangal branch and some other important branches. In case, you have your account with SBI, in a branch having EFT facility, you may inform your bank account no., name and place of branch and branch code no., so that your payment can be released through EFT .

Any Bank Charges for this facility of direct credit by State Bank of India, to their bank account will be borne by the party/ tenderer.

5. Complete specifications of the Stores offered together with manufacturer's name brand, etc., of each of the item must be given in the quotations and descriptive literature and samples (wherever necessary or required) should be sent along with the quotations.
6. **VALIDITY:** Price and delivery quoted by you must be firm and valid for a minimum period of 120 days from the due date of opening of Price Bid quotation
7. The tenderer shall quote the price strictly as per the **Price Bid Format**. Parties should quote one rate for specific quantity quoted by them. Tenders with quotation of different rate for

different quantities shall be rejected without any further reference. All the columns of Price Bid must be filled in properly.

8. DELIVERIES/LIQUIDATED DAMAGES:

Bidder shall quote the minimum guaranteed delivery period.

It shall be obligatory on the part of suppliers to adhere strictly to the deliveries quoted and accepted by us in our orders. In case of delay in supplies/~~installation & Commissioning~~, unless extension of delivery has been granted by us on application by the suppliers, we may at our option either

- (i) recover liquidated damages from supplier at a sum equal to ½% per week or part thereof of the value of stores not delivered subject to a maximum of 5% of the value of the order, or
- (ii) purchase elsewhere on account and at the risk and cost of the suppliers the stores not delivered or
- (iii) cancel the contract without prejudice to our rights under (i) & (ii) above.

~~(The same clause will be applicable in case of delay in Installation & Commissioning of material)~~

9. Quotations must be legible, clear and free from overwriting/erosions. You should sign on all cuttings/over writings. Incomplete quotations are liable to be summarily rejected.
10. We reserve the right to accept or reject any quotation in full or in part without assigning any reason thereof. We also reserve the right to split and place order on more than one supplier
11. NFL will have the right to issue addendum to tender documents to clarify, amend, modify, supplement or delete any of the conditions, clauses or items stated. Addendum so issued will form part of original invitation to tender
12. NFL reserves the right to postpone the tender opening date and/or time and will intimate all the tenderers well in time, of such postponement along with notice of revised opening date and time
13. One person will be allowed to represent only one company during discussions/negotiations with NFL. If same person is representing different companies with authorization letter from more than one company, such person will be allowed to represent only the first company called for negotiations.
14. Bidders may ensure that tender documents/offer has been signed by appropriate/authorized representative of the Company. Withdrawal of offer/non acceptance of orders placed based on offers submitted by bidder's on their letter head; will not be allowed on the grounds that offer was not signed by authorized person.
15. The prospective tenderers having any common partners/Directors/ Managing partners, etc. or having any other common criteria shall be considered as Sister/Group/Associates company. In such cases, only one of them will be eligible for participating in the tender.
16. In case, due to some unforeseen circumstances, the date of receiving/ opening of the tender happen to be a holiday/ closed day, the tender will be received and opened on the next tender opening working day.

17. If a tenderer resorts to any frivolous, malicious or baseless complaints/ allegations with intent to hamper or delay the tendering process or resorts to canvassing/ rigging/ influencing the tendering process, NFL reserves the right to debar such tenderer from participation in the present/ future tenders up to a period of 2 years."
18. It shall be certified by the tenderer that none of the NFL employee is related to owners/directors. (In case any relative is working in NFL, furnish details separately).It shall also be certified by the tenderer that none of NFL's ex-employee is employed with them. (In case any ex-employee of NFL is employed, furnish details separately).It shall be certified by the tenderer that none of blood relation of the owners/directors is participating in this tender in the name of other firm.
19. Subsequent to an order being placed against your quotation, received in response to this 'enquiry', if it is found that the materials supplied are not of the right quality or not in accordance with our specifications (required by us) or received in damaged or broken conditions, not satisfactory owing to any reason of which we shall be the sole judge, we shall be entitled to reject the materials, cancel the contract and buy our requirement from the open market/other sources and recover the loss, if any, from the supplier reserving to ourselves the right to forfeit the security deposit, furnished by the supplier against the contract. The supplier will make his own arrangements to remove the rejected materials within a fortnight of instruction to do so. Thereafter, materials will lie entirely at the supplier's risk and responsibility and storage charges, along with any other charges applicable, will be recoverable from the supplier.
20. **Force majeure:** Neither party will be liable for any claim on account of any loss, damage or compensation, whatsoever, arising out of any failure to carry out the terms of this contract, where such failure is caused due to war, rebellion, mutiny, civil commotion, fire, riots, earthquake, drought, flood crop failure, or Act of God or due to any restraint or regulation of the State or Central Government or a local authority/authorities, provided a notice of such occurrence is given to the other party in writing within 10 days from the date of occurrence of the force majeure condition, furnishing therewith a documentary evidence supporting the invoking of the force majeure clause. On cessation of the force majeure, the party invoking force majeure will inform the other party of the period for which the force majeure condition continued and will also give documentary evidence there of this effect.
21. In all cases of disputes, the decision of National Fertilizers Limited shall be final. Failing this, the matter will be referred to the Arbitration in accordance with the Indian Arbitration Act and amendments thereof.
22. **ARBITRATION:**
The contract shall be governed by and construed in accordance with the laws of India.

For Indian Parties:

- (a) "Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be resolved amicably through negotiations by the Parties. A "Notice of Dispute" shall be given by the party seeking resolution of a dispute to other party. If the dispute is not resolved within Thirty (30) days from the notice, the dispute shall be referred to arbitration as per the procedure mentioned herein below:

A written notice shall be given by the contractor invoking arbitration to National Fertilizers Limited through designated Authority.

Where the claim including determination of interest, if any, being claimed upto the date of commencement of arbitration does not exceed Rs. Five Crore, the reference shall be made to a sole arbitrator. The parties shall mutually agree on the name of sole arbitrator. In case of

disagreement upon the name of the sole arbitrator, the appointment of Sole Arbitrator shall be done in accordance with the provisions of Arbitration & Conciliation Act, 1996.

Where the claim including determination of interest, if any, being claimed, upto the date of commencement of arbitration exceeds Rs. Five Crore, the reference shall be made to arbitral tribunal consisting of three arbitrators. Each party shall nominate one arbitrator each within 30 days from the date of receipt of notice of invocation of arbitration and two nominated arbitrators shall appoint the presiding arbitrator within 30 days thereafter. If a Party to the dispute refuses or neglects to nominate an arbitrator on its behalf within the period specified, or the two arbitrators fails to nominate Presiding arbitrator, appointment of Arbitrators(s) shall be done in accordance with the provisions of Arbitration & Conciliation Act, 1996.

The Arbitration proceeding shall be governed by the Arbitration & Conciliation Act 1996 and any further statutory modification or re-enactment thereof and the rules made there under.

It is agreed by and between the parties that in case a reference is made to the Arbitrator for the purpose of resolving the disputes/ differences arising out of the contract by and between the parties hereto the Arbitrator shall not award interest on the awarded amount more than the rate SBI PLR/Base Rate applicable to NFL on date of award of contract.

The seat and venue of arbitration shall be Nangal Unit.

The cost of the proceedings shall be equally borne by the parties, unless otherwise directed by the arbitral tribunal. The decision of the arbitral tribunal shall be final and binding on all parties.”

This Contract/LOI/NIT shall be governed by and construed in accordance with the Laws of India.”

For CPSEs and Government Department:

- (b) All commercial disputes between CPSEs inter se and CPSE(s) and Govt Department(s) Organization(s) shall be settled through Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD) as provided vide DPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018 and DPE-GM-05/0003/2019-FTS-10937 Dated 20.02.2020. Following clause in all commercial contracts between CPSEs inter se and CPSEs and Government Departments/ Organizations shall be included as under:

“In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (Other than those related to taxation), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4(1)/2013- DPE(GM)/FTS-1835 dated: 22-05-2018”.

23. JURISDICTION: All actions at law or suits arising out of or in connection with this contract or the subject matter thereof will be instituted in a court situated at Nangal Court in Ropar District of Punjab.

Special Terms and Conditions:

1. No enhancement of rates will be allowed once the quotation is accepted and the order is placed. Withdrawal from the quotation after its acceptance will entail forfeiture of earnest money, if any, and/or risk purchase without prejudice of our rights of legal remedies.
2. **DURATION OF THE PURCHASE ORDER** :- Order will be valid till execution/ supply of full quantity as per order and rate will be firm.
3. **EARNEST MONEY DEPOSIT (EMD)**: Tenders can be submitted EMD of **Rs.25,000/- (Rupees Twenty Five Thousand Only)** in the form of :

- i) **E-transfer in NFL account through RTGS/NEFT.**
Our Bank account details are as under: -

Bank Name: **State Bank of India, Naya Nangal**

Account No.: **011070992603 (Cash credit A/c)**

IFS Code : **SBIN0000689**

MICR : **140002304**

Tenderers shall intimate Name and Complete Address of the Depositor i.e. Name of the Company/Firm, Deposited Amount, Nature of Deposit and NIT Number immediately after remittance to our F&A Dept. through Email (Email ID: sunitak@nfl.co.in) with cc to tilak@nfl.co.in for proper accounting of deposited amount

OR

- ii) **Bank Guarantee** in the prescribed format from any scheduled Bank excluding Gramin/Co-op Banks. The BG should be valid for a period of minimum 3 months and the party should give an undertaking for extension of the validity of the BG in case the same is desired by NFL. **(Annexure-Bid Security (EMD) Performa)Supplier/Contractor may be instructed specially to inform the UTR No. with Name of supplier in order to have hassle free transaction details.**
- iii) The Bank Guarantee should be submitted by your Bank directly to NFL in a sealed cover and not through supplier at following address:

CHIEF.MGR.(Mtls.)
NATIONAL FERTILIZERS LIMITED
NANGAL UNIT-140126
DISTT. ROOPNAGAR-PUNJAB

In case EMD/ SD or PBG submitted through NEFT/RTGS, URN No. for the same mention in the offer. Cheque shall not be accepted in any case. No interest shall be payable on Earnest Money Deposit.

- 1.1 **Forfeited of EMD**: Earnest money will be forfeited at the sole discretion of NFL, in case tenderer after opening of tender, either wholly or in part, refuse to accept the Purchase Order or changes any of the conditions of the tender or changes the quoted rates and/or terms and conditions of the tender within validity period. If the successful tenderer does not deposit the security as stipulated in the Purchase Order, EMD will be forfeited without further reference.

- 1.2 Earnest Money deposit of the unsuccessful tenderers will be returned as early as possible after finalization of the tender.
- 1.3 Earnest Money Deposit will not carry any interest.
- 1.4 **The tenders submitted without Earnest Money Deposit may be summarily rejected without any further reference.**
4. **SECURITY DEPOSIT:** To be submitted @5% of the Basic Order Value within 15 days from the date receipt of Order in the form of :
- i) **E-transfer in NFL account through RTGS/NEFT.**
Our Bank account details are as under: -

Bank Name: **State Bank of India, Naya Nangal**

Account No: **011070992603 (Cash credit A/c)**

IFS Code : **SBIN0000689**

MICR : **140002304**

Or

- ii) **Bank Guarantee** in the prescribed format specified by NFL as per (Annexure) enclosed from any of the scheduled Bank excluding Garmin/Co-op Banks in the format against the Security Deposit for the faithful and proper fulfilment of the contract. The BG should be valid for the Delivery Period plus Guarantee/Warranty Period plus 3 months claim period.
- iii) The Bank Guarantee should be submitted by your Bank directly to NFL in a sealed cover and not through supplier at following address:

CHIEF.MGR.(Mtls.)

NATIONAL FERTILIZERS LIMITED

NANGAL UNIT-140126; DISTT. ROOPNAGAR; PUNJAB

In case EMD/ SD or PBG submitted through NEFT/RTGS, URN No. for the same mention in the offer. Cheque shall not be accepted in any case. No interest shall be payable on Earnest Money Deposit.

- 1.1 The successful tenderer shall be required to furnish non-interest bearing **Security Deposit @ 5% of the Basic Value of the Order after adjusting EMD (if already submitted) within 15 days from the date receipt of order** in the form of e-transfer/Bank Guarantee from nationalized/scheduled bank excluding rural & co-operative bank covering delivery period plus 3 months claim period. Bank guarantee must be directly sent by your banker to NFL. URN No. for the same may be mentioned in the offer.
- 1.2 ***The Security Deposit-Cum PBG submitted by you shall be converted into Performance Bank Guarantee which will remain valid till delivery period plus Guarantee/Warranty period plus 3 months claim period. Bank Guarantee must be directly sent by your banker to NFL.***

- 1.3 The **Security Deposit** will be retained by NFL during the currency of contract or till settlement of all the accounts thereof, whichever is later. In case any dispute or difference not settled within the validity of Bank Guarantee, tenderer will arrange to get the Bank Guarantee extended as asked for by NFL, else NFL, at its sole discretion may call upon the Bank to pay the whole or part of the amount of Bank Guarantee.
- 1.4 The above deposit will be deemed to be security for the faithful performance of the contract and for the purpose of Section 74 of the Indian Contract Act, 1872 and for the extension of that section. In the event of any breach of any terms and conditions of the contract, NFL will have the right to encash the Bank Guarantee/ **Security Deposit** either the whole or part of value of Bank Guarantee or Security Deposit and tenderer will make good the value of Bank Guarantee/ **Security Deposit** to the extent of the amount so drawn within 15 days of receipt of intimation from NFL to this effect.
- 1.5 The amount so drawn will not in any way effect any remedy to which NFL may otherwise be entitled or any liability incurred by tenderer under the contract or any law for the time being in force relating thereto or bearing thereupon.
- 1.6 In the event of the forfeiture of whole or part of the **Security Deposit**, the tenderer will deposit further sum/sums, so as to maintain the full **Security Deposit** amount.
- 1.7 The **Security Deposit** will be refunded after contract has been successfully completed. It will be lawful for NFL, if any difference or dispute is likely to exist, to defer payment of the **Security Deposit** or any portion thereof which may be due for release until such difference and dispute had been finally settled or adjusted.

The **Security Deposit** will not carry any interest

Note: The party shall also arrange confirmation of Bank Guarantee for EMD & SD (including all amendments) by their issuing bank through SFMS mode directly to the NFL Banker i.e. ICICI Bank Ltd., K1, Senior Mall, Sector-18, Noida, UP,201301, IFSC Code ICI0000031, as per following details:-

IFN 760 COV for issuance of bank guarantee.

IFN 767 COV for amendment of bank guarantee.

Issuing bank shall mention NFL beneficiary code as “NFLNATIONAL04022015” in filed 7037 COV / IFN 767 COV”.

5. Tenderers must also mention their GST Regn. No. & HSN Code No. of item in the quotation.
6. No escalation will be allowed due to any increase in GST in case of extension sought by the parties beyond stipulated delivery period.
7. Supplier will submit Material Test Certificate along with dispatch documents at NO EXTRA COST to NFL if applicable.
8. WEIGHMENT OF MATERIAL Weighment at weigh-bridge/weighing machine of NFL will be final and binding on the supplier.
9. TRANSIT INSURANCE, Transit Insurance will be arranged by supplier at his cost as GeM procedure.

10. The seller shall not assign or sublet the contract or any part thereof or assign any rights or delegate any obligation there under without prior consent of NFL.
11. The supplier shall indemnify and legally protect NFL and/or its employees against all claims, actions, proceedings, demands, costs, expenses, causes of action or suits arising out of incidental to and/or consequent upon the services provided by the seller under the contract or due to the failure of the seller in performance of his/its obligations under the contract.

If the NFL is called upon to make any payments as aforesaid due to any act or omission or failing of the seller, NFL shall be entitled to recover the said amount from any security or other guarantee available with the NFL under the contract.

12. The seller shall comply with all Central/State Laws as well as the rules, regulations, by-laws as may be in force, from time to time. Any failure on their count on the part of the seller and the consequence thereof shall be solely on account of the seller. Liability, if any, under this head shall be solely borne and paid for by the seller.

13. **CLEAR UNDERSTANDING:**

When a tenderer submits his tender in response to this tender document, he will be deemed to have understood fully all requirements, terms and conditions. No request will be entertained on a pretext that the tenderer did not have a clear idea on any particular point and/or a clause of the tender.

14. In case the manufacturer want to quote through their authorized dealer/distributor then authorization certificate from the manufacturer is required. For participation in the Tender, Tender specific approval is required from manufacturer and authorized dealer/distributor shall confirm that materials will be supplied by them from Prime source, in case order is bagged by them

15. **ANY EXCEPTIONS/DEVIATIONS TO THE ATC SHALL BE SPECIFICALLY STATED.**

16. **Any Other Comment / Information /Remarks:** No Deviation to the terms & conditions is allowed. The offer with any condition / deviations may be rejected at Sole option of NFL. However Vendor may offer comments or deviations if any.

17. You must specifically confirm each clause of this ATC. In case, you do not comment on any of the clauses, we shall presume that the same has been accepted by you unconditionally. Deviation, if any, must be mentioned explicitly. However, in case of any deviation from our above said terms & conditions, we reserve our right either to ignore your offer or load the same suitably at our sole discretion.

18. Whenever the bidder is silent about the acceptance of ATC conditions such as Bank Guarantee, Warranty Period, Liquidated Damages etc., (as applicable in the Tender) it shall be presumed that the bidder has accepted ATC conditions and no further correspondence seeking specific confirmation about acceptance of these conditions shall be made.

19. Party to mention full contact details (Such as Name of the Contact Person, Mob. / Phone, e-mail etc.)

20. **MSMED ACT:** In case you are registered as MICRO, SMALL or MEDIUM Enterprise under ‘The Macro, Small & Medium Enterprise Development Act, 2006 (MSMED Act)’ promulgated by Government of India latest Notifications. **MSE Policy shall be applicable.**

21. Make in India Policy: Bidders seeking benefits under Purchase Preference to Make in India (linked with local content) under provisions of Provisions of Public Procurement (Preference to make in India) order 2017 (**Latest notification shall be applicable**)

Bidder shall be required to submit certification regarding compliance with this order on their Letter Head as per Annexure-Y enclosed alongwith offer.

22. **Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 as per office IOM no. 6/18/2019-PPD dated 23rd July 2020 & 8th Feb,2021 shall be applicable:**

Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with Competent Authority.

Bidder shall be required to submit certification regarding compliance with this order on their Letter Head as per Annexure-Z enclosed alongwith offer.

23. GUARANTEE/WARRANTY CERTIFICATE:

“Parties have to furnish a Guarantee / Warranty Certificate for your products against defective material / bad workmanship for a period of 12 months from the date of commissioning or 18 months from the date of dispatch, whichever is earlier. In case the material fails during the above Guarantee period due to defective material or bad workmanship, you will have to replace the same free of cost. Certificate must accompany the dispatch documents”.

TECHNO-COMMERCIAL BID TEMPLATE

(May please upload Technical Bid under “.rar” Document)

NFL Nangal Case Ref. No.					
e.Tender ID No.					
Quotation No. & Date					
Name of Bidder & Complete Address:					
Vendor’s Contact Details: Vendor may furnish E-Mail Id, Telephone / Mobile No. etc. alongwith complete Name & Address details of the firm for Clarifications / Placement of Order.					
Sr. No.	NFL Requirement as per NIT				Vendors Comment (Agreed / If not Agreed, Please Comment)
1	Material Code.	Description of Material	UOM	QTY.	

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8601527	<p>DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 5.5 KW MOTOR (for GN-2632), 3000 RPM (SYN), FRAME SIZE 132S, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(b).</p> <p>BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(b) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.</p>	NO	1	
8601529	<p>DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 37 KW MOTOR (PC-13/101), 3000 RPM (SYN), FRAME SIZE D200L, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(c).</p> <p>BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(c) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.</p>	MTR	1	

8601530	<p>DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 22.5 KW MOTOR (for PC-6), 3000 RPM (SYN), FRAME SIZE 180M, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(d).</p> <p>BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(d) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III</p>	NO	1	
8601531	<p>DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 120 KW MOTOR (for PC-12), 1500 RPM (SYN), FRAME SIZE ND315M, IM3011-V1, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I , ANNEXURE-II(e) and ANNEXURE-II(e.1).</p> <p>BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(e) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.</p>	NO	1	
8601532	<p>DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 15 KW MOTOR (for PC-18W), 3000 RPM (SYN), FRAME SIZE 180M, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(f).</p> <p>BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(f) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III.</p>	NO	1	

8601533	<p>DESIGN, MANUFACTURE, TESTING AT WORKS AND SUPPLY IN WELL PACKED CONDITION :- THREE PHASE SQUIRREL CAGE INDUCTION MOTOR OF 7.5 KW MOTOR (for L.O 2A), 1500 RPM (SYN), FRAME SIZE 132M, B3, S1, Ins. class F, Ex-ec or above, IE-3 SERIES or above, 415V, DELTA CONNECTED, IP-55 AS PER SPECIFICATIONS MENTIONED IN ANNEXURE-I and ANNEXURE-II(g).</p> <p>BIDDER SHOULD SUBMIT THEIR OFFER ALONG WITH THE FILLED ANNEXURE I &II(g) & SUBMIT CERTIFICATES AS PER ELIGIBILITY CRITERIA MENTIONED IN ANNEXURE-III</p>	NO	1	
NOTE;				
(i) Type of Tender	TWO PART BID			
(ii) Earnest Money Deposit (EMD)	<p>Rs.25,000/- (Rupees Twenty Five thousand Only) in the form of RTGS/NEFT/BG(detailed as per NIT Clause No. 3 of Special terms and conditions)</p> <p>Incase EMD/SD submitted through NEFT/RTGS, URN. No for the same may be mentioned</p>			
(iii) Security Deposit cum Performance Guarantee	<p>In case of order, the tenderer shall be required to furnish non-interest bearing SD @ 5% of the Basic Value of the Order after adjusting EMD (if already submitted) within 15 days from the date of receipt of order.</p> <p>(Detailed as per NIT Clause No. 4 of Special terms and conditions).</p> <p>Incase EMD/SD submitted through NEFT/RTGS, URN. No for the same may be mentioned</p>			
(iv) Payment Terms	<p>No Advance Payment shall be made.</p> <p>100% payment of material supplied will be made within 30 days subject to receipt, acceptance of material at our site.</p>			
(v) Guarantee/Warranty Clause Compliance (ATC)	<p>You shall have to submit Guarantee / Warranty Certificate as per clause no 23 of ATC</p>			

	(vi) Are you registered under TReDS (Trade Receivable electronic Discounting System approved by RBI)- Applicable for Micro, Small and Medium Enterprises	<ul style="list-style-type: none"> No Yes, RXIL/A-Treds/M1Xchange Registration Number- (tick agency with whom you are registered along with registration No) 	
	(vii) TENDER SPECIFIC AUTHORIZATION	Party to furnish TENDER SPECIFIC authorization Certificate from their Principal (in case offer is submitted by a dealer).	
2	Offer Validity	Price and delivery quoted by you must be firm and valid for a minimum period of 120 days from the date of Opening of Quotation.	
3	Complete Bank Details	Please mention your Complete Bank details and upload copy of cancelled cheque.	
4	Transit Insurance	The rates should be inclusive of transit insurance from Despatch Station to our warehouse.	
5	Price Basis	Please confirm that quoted prices are on FOR Basis .	
6	Firm Prices	Vendor to confirm that Total Landed Rate including Transportation Charges will remain firm till the complete execution of the Order.No revision in rates allowed except for any increase/decrease in rates of statutory levies and duties such as GST etc.	
7	Delivery Period	Vendor shall quote/mention Minimum Shortest Delivery Period specifically in Weeks/ Months.	
8	Liquidated Damages for Delay in Supply and Delay in Intl & Comm.	1/2 % per week subject to Maximum 5 % of Delivery Order Value/value of Installation & Comm.	
9	GST Rate	Tenderer to confirm rate of GST (%), if applicable.	
10	GST No.	Bidder to mention here complete GST No.	
11	HSN Code	Please, indicate HSN Code of the Item(s)	

12	MSMED Registration	Whether registered under MSMED Act, 2006. If YES, state the category i.e. Micro/ Small/ Medium Enterprises. MSE Policy shall be applicable.	
13	Relationship	<ul style="list-style-type: none"> • It shall be certified by the tenderer that None of NFL Employee is related to Owner / Director of Firm. • It shall be certified by the tenderer that None of Ex-Employee of NFL is employed with vendor Firm. • It shall be certified by the tenderer that none of blood relation of the owners/directors is participating in this tender in the name of other firm. 	
14	Black-listing/ Delisting	Vendor to confirm that they have not been delisted/ black-listed in any Unit of NFL.	
15	The tenderer should be a Manufacturer or an authorized dealer of manufacturer	In case the manufacturer want to quote through their authorized dealer/distributor then authorization certificate from the manufacturer is required. For participation in the Tender, Tender specific approval is required from manufacturer and authorized dealer/distributor shall confirm that materials will be supplied by them from Prime source, in case order is bagged by them.	
16	Any Other Comment/Information/Remarks	No Deviation to the terms & conditions of NIT is allowed. The offer with any condition/deviations is liable to be rejected at Sole option of NFL. However Vendor may offer comment, if any.	
17	MAKE IN INDIA	Bidders seeking benefits under Purchase Preference to Make in India (linked with local content) under provisions of Provisions of Public Procurement (Preference to make in India) order 2017 notified vide order no. P- 45021/2/2017 BE-II dated 15" June 2017 Revision (Amended on 04.06.2020) of Ministry of Commerce and Industry, Department of Industrial Policy and Promotion (DIPP)	
	A	The 'Class-I local supplier'/'Class-II Local supplier' at the time of tender, self-certification that the item offered meets the local content requirement for 'Class-I Local supplier'/'Class-II Local supplier',	
	i	The 'Class-I local supplier = The minimum Local content equal or more than =50% <u>Indicate percentage of local content and provide self-certification</u>	
	ii	The 'Class-II local supplier = The minimum Local content equal or more than 20% but less than =50% <u>Indicate percentage of local content and provide self-certification</u>	

	iii	Non-Local Supplier - Means a supplier or service provider, whose goods, services or work offered for procurement, has local content less than 20%, <u>Indicate percentage of local content and provide self-certification.</u>	
18	MSME/MAKE IN INDIA CLAUSES	MSME / MAKE IN INDIA POLICY WILL BE APPLICABLE AS PER GOVT. NORMS FROM TIME TO TIME CHANGE.	
19	Specifications of materials	Vendor to confirm that their quoted material will be as per our NIT Specifications.	
20	Acceptance of NIT Terms & Conditions	Vendor will confirm their acceptance to the Terms and Conditions of the NIT without any deviation and upload a complete set of Tender Enquiry duly signed and stamped	
21	RESTRICTION CERTIFICATION ON PROCUREMENT	Kindly submit the Certificate of Compliance along with quotation (If Applicable) vide Govt. Office Memorandum Dated: 23.07.2020 & 08.02.2021.	
22	Regret	If the required material is not in your supply range, then please send regret mail to tilak@nfl.co.in	

Annexure-Y

**Self-Certification Form: Make In India (Local Content)
(On Company's Letter Head)**

Tender Ref. No.:

To

M/s National Fertilizers Limited, Nangal

Sub: Self Certification as per clause 9(a) of Revised Public Procurement (Preference to Make in India Order, 2017 of DPIIT dated:16.09.2020

Sir,

I.....(authorized signatory) for M/s.....a 'Class I Local Supplier' / 'Class II Local Supplier' at the time of tender, bidding or solicitation hereby confirm that the item meets the Local Content requirement for Class I Local Supplier' / 'Class II Local Supplier' (**Tick appropriate option & cut the other one**) and the Local Content percentage is.....

I also certify that the contractor M/s..... has not been debarred by any procuring entity from violation of this order.

The address is as below, where the local content/ value addition is made:

[Factory Address]

For M/s.....

Authorized Signatory

(with company seal & Name)

Annexure-Z

**Model Clause Certificate: Public Procurement No. 1
(On Company's Letter Head)**

Tender Ref. No.:

To

M/s National Fertilizers Limited, Nangal

Sub: Model Clause Certificate as per Annexure-III (Tenders) of Restrictions under rule 144 (xi) of the General financial Rules (GFRs) 2017, dated: 23.07.2020

Sir,

I.....(authorized signatory) for M/s..... have read the clause regarding restrictions on procurement from a contractor of a country which shares a land border with India. We certify that this contractor

M/s.....[Vendor Name & address] is not from such a country or, if from such a country [**Tick appropriate option & cut the other one**], has been registered with the competent authority.

We hereby certify that we fulfil all requirements in this regard and is eligible to be considered **[attach evidence of valid registration certificate with competent authority]**.

For M/s.....

Authorized Signatory

(with company seal & Name)

BANK GUARANTEE BOND FORM
DRAFT OF BANK GUARANTEE FOR BISECURITY DEPOIST / EMD

BANK GUARANTEE NO. _____

AMOUNT OF BANK GUARANTEE _____

GUARANTEE COVER FROM _____ TO _____

IN CONSIDERATION OF NATIONAL FERTILIZERS LIMITED (NFL) HAVING ITS REGISTERED OFFICE AT SCOPE COMPLEX, CORE NO. III, 7- INSTITUTIONAL AREA, LODHI ROAD, NEW DELHI- 110003 (HEREINAFTER CALLED NFL WHICH EXPRESSION SHALL UNLESS REPUGNANT TO THE SUBJECT OR CONTEXT INCLUDES ITS SUCCESSORS AND ASSIGNS) HAVING AGREED TO EXEMPT M/S _____ (HEREINAFTER CALLED THE, THE SAID TENDERERS (S)' WHICH EXPRESSION SHALL UNLESS REPUGNANT TO THE SUBJECT OR CONTEXT INCLUDES HIS SUCCESSORS AND ASSIGNS) FROM THE DEMAND UNDER THE TERMS AND CONDITIONS OF TENDER NO. _____ FOR _____ HEREINAFTER CALLED "THE SAID TENDERER" OF SUCH BID SECURITY DEPOSIT FOR THE DUE FULFILMENT BY THE SAID TENDERER(S) OF THE TERMS AND CONDFITONS CONTAINED IN THE SAID TENDER _____ FOR _____ ON PRODUCTION OF BANK GUARANTEE FOR RS. _____ (RUPEES _____ ONLY).

1. WE _____ BANK HEREINAFTER REFERRED TO AS 'THE BANK' DO HEREBY UNDERTAKE TO PAY TO NFL AN AMOUNT NOT EXCEEDINGS _____ (RUPEES _____ ONLY) AGAINST ANY LOSS OR DAMAGE CAUSED TO OR SUFFERED BY 'NFL' BY REASON OF ANY BREACH BY THE SAID TENDERER(S) OF ANY OF THE TERMS AND CONDITIONS CONTAINED IN THE SAID TENDER (THE DECISION OF THE COMPANY AS TO ANY SUCH BREACH HAVING BEEN COMMITTED ANY LOSS SUFFERED SHALL BE BINDING ON US.

2. WE _____ BANK DO HEREBY UNDERTAKE TO PAY THE AMOUNTS DUE AND PAYABLE UNDER THIS GUARANTEE WITHOUT ANY DEMUR MERELY ON A DEMAND FROM 'NFL' STATING THAT THE AMOUNT CLAIMED IS DUE BY WAY OF LOSS OR DAMAGE CAUSED TO OR WOULD CAUSE TO OR SUFFERED BY 'NFL' BY REASON OF ANY BREACH BY THE SAID TENDERER (S) OF ANY OF THE TERMS OR CONDITIONS CONTAINED IN THE SAID TENDER OR BY REASON OF THE SAID TENDERER'S FAILURE TO KEEP THE TENDER OPEN. ANY SUCH DEMAND MADE ON THE BANK SHALL BE CONCLUSIVE AS REGARDS THE AMOUNT DUE AND PAYABLE BY THE BANK UNDER THIS GUARANTEE. HOWEVER, OUR LIABILITY UNDER THIS GUARANTEE SHALL BE RESTRICTED TO AN AMOUNT NOT EXCEEDING _____ (RS _____ ONLY)

3. WE _____ BANK FURTHER AGREE THAT THE GUARANTEE HEREIN CONTAINED SHALL REMAIN IN FULL FORCE AND EFFECT DURING THE PERIOD THAT WOULD BE TAKEN FOR THE FINALISATION OF THE SAID TENDER AND THAT IT SHALL CONTINUE TO BE ENFORCEABLE TILL THE SAID TENDER IS FINALLY DECIDED AND ORDER PLACED ON THE SUCCESSFUL TENDERER AND / OR TILL ALL THE DUES OF NFL UNDER/ OR BY VIRTUE OF THE SAID TENDER HAVE BEEN FULLY PAID AND ITS CLAIMS STATISFIED OR DISCHARGED OR TILL A DULY AUTHORISED OFFICER OF NFL CERTIFIED THAT THE TERMS AND CONDITIONS OF THE SAID TENDER HAVE BEEN FULLY AND PROPERLY CARRIED OUT BY THE SAID TENDERER (S) AND ACCORDINGLY DISCHARGES THE GUARANTEE. UNLESS A DEMAND OR CLAIM UNDER THIS GUARANTEE IS MADE ON US IN WRITING ON OR BEFORE THE _____ TO INCLUDE 3 MONTHS CLAIM OVER AND ABOVE THE PERIOD MENTIONED IN THE PARAGRAPH FOR THE VALIDITY OF THE BANK GUARANTEE IN THE TENDER WE SHALL BE DISCHARGED FROM ALL LIABILITY UNDER THIS GUARANTEE THEREAFTER.

4. WE _____ BANK, LASTLY UNDERTAKE NOT TO REVOKE THIS GUARANTEE DURING ITS CURRENCY EXCEPT WITH THE PREVIOUS CONSENT OF 'NFL' IN WRITING.

DATED _____ DAY OF _____ 20

FOR BANK CORPORATE SEAL

SECURITY DEPOSIT-CUM-PERFORMANCE BANK GUARANTEE FORMAT

(To be prepared on Stamp paper issued in the name of Bank)

This BANK GUARANTEE No. _____ made this day of _____ between _____ a bank incorporated and having its registered office at _____

_____ (hereinafter called BANK) which expression shall unless repugnant to the context or contrary to the meaning thereof include its successors and assigns on the one part and NATIONAL FERTILIZERS LIMITED, a Company registered in India under Companies Act, 1956 and having its registered office at Core - III, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi - 110 003, India unless repugnant to the context or contrary to the meaning thereof include its successors and assigns on the other part.

WHEREAS in pursuance to the agreement no. _____ dated _____ (hereinafter called CONTRACT) entered into between National Fertilizers Limited (hereinafter called OWNER and _____ a Company incorporated in _____ (hereinafter called CONTRACTOR) which expression shall unless repugnant to the context or contrary to the meaning thereof include its successors and assigns, for supply of _____ as envisaged in the Contract, Contractor has to submit a SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee for Rs. _____.

CONTRACTOR accordingly agrees to furnish SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee as hereinafter contained towards fulfillment of all of its obligations under the contract.

NOW THIS DEED WITNESSES AS FOLLOWS:

1. In pursuance of the Contract, the Bank hereby guarantees as a direct responsibility to OWNER that the BANK is holding the amount of Rs. _____ at Owner's disposal and hereby promises and shall be bound to pay to OWNER, forthwith at Owner's written notice stating that the contractor has failed to fulfill its obligations under the contract for reasons for which contractor is liable and without any protest or demur and without recourse to contractor and without asking for any reasons as to whether the amount if lawfully asked for by Owner or not, the entire amount or the portion thereof as mentioned by Owner in the notice.

The decision of the Owner as to whether the terms and conditions of this SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee have been observed or not shall be final and binding on the BANK. In any case, however the Bank's responsibility under this SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee is limited to Rs. _____.

2. This SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee shall be valid for an initial period of _____ months from the date of this Bank Guarantee No. _____ dated _____ given by the Bank to Owner become effective. Upon issuance of Commissioning / certificate according to terms of contract on expiry of _____ months after the issuance of the above mentioned certificate of commissioning / erection / completion certificate, the SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee shall become null and void.

3. This SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee shall be in addition to and shall not affect or be affected by any other security now or hereafter held by Owner on account of money hereby intended to secure and Owner at its discretion and without any further consent from the Bank, and without affecting its rights against the Bank, may compound with, give time or other indulgence to or make any other arrangement with Contractor and nothing done or omitted to be done by Owner in pursuance of any authority or permission contained in this guarantee, shall effect discharge of the liability of the Bank.

4. UNLESS PREVIOUSLY CANCELLED BY THE OWNER, this SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee will remain in force initially upto _____ months from the effective date of Bank Guarantee No. _____ dated _____ given by the Bank to the Owner and subject to provisions of paragraph 2 above will stand automatically cancelled on the expiry of the said period. Unless demand or claim under this Bank Guarantee is made on Bank in writing within three months from the date of expiry of this Bank Guarantee, all the rights of Owner against the Bank shall be forfeited and Bank shall be relieved and discharged from all the liabilities hereunder.

5. Any notice by way of request, demand or otherwise hereunder may be sent by post to the Bank, addressed as aforesaid, and if sent by post, it shall be deemed to have been given at the time when it would be delivered in due course of post, and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate, signed by an officer of the owners, to the effect that the envelope was so posted, shall be conclusive.

6. The SECURITY DEPOSIT-CUM-PERFORMANCE Bank Guarantee is to be returned to the Bank after its expiry in terms of Paragraph 4 above.

7. The Bank declares that it has the power to issue this guarantee and the undersigned have full power to do so.

Dated _____ this _____ day of _____.

(Indicate the name of the Bank with stamp)

Eligibility conditions to be incorporated in NIT

S. No.	Condition	Documents required
1	The bidder should be a manufacturer or authorised dealer of the Low voltage induction motor	<p>In case of a Manufacturer Bidder shall submit self certified copy of valid industrial licence issued by statutory Authority / Govt Agency.</p> <p>In case of a Dealer A valid copy of authorization shall be furnished for this particular tender.</p>
2	The bidder should have supplied similar Item during the last seven years ending last day of previous month in which NIT has been issued. Similar item means Supply of Low voltage induction motor of rating 37KW or above.	The bidder shall submit self-attested copies of two successfully completed Purchase Orders (PO)/ Contracts for supply of similar item. Party shall also submit completion certificates against the submitted PO / Contracts from the End Users. In case party is not able to submit completion certificate from End User, then party shall submit self-certification along with proof for completion of PO/contract i.e. copy of invoice/ proof of receipt of payment/ IRN/ shipping release/ copy of repeat order etc .



 The table contains handwritten signatures in blue ink. One signature is written over the 'Condition' column of row 1, and another is written over the 'Documents required' column of row 1. A circular stamp is also visible, partially overlapping the table and the signatures.

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ANNEXURE - I
TECHNICAL REQUIREMENT OF INDUCTION MOTORS

SNO.	Technical Requirement	Confirmation from vendor
1.	Scope: Design, manufacture, testing at works and delivery in well-packed condition of 7 nos. three phase LT Induction motors of following Power ratings :- (Detailed requirements have been mentioned in Annexures II - a, b, c, d, e, f, g)	
a)	Power Rating : 37 KW for PC-1	
b)	Power Rating : 5.5 KW for GN-2632	
c)	Power Rating : 37 KW for PC-13	
d)	Power Rating : 22.5 KW for PC-6	
e)	Power Rating : 120 KW for PC-12	
f)	Power Rating : 15 KW for PC-18W	
g)	Power Rating : 7.5 KW for L.O 2A	
2.	SPECS :	
a)	Motors shall be energy efficient type of efficiency class of minimum 'IE3' as per IS 12615.	
b)	Motors enclosure should be of Ex-ec class or above	
c)	Motors shall be suitable for Hazardous Area Classification : Zone 2	
d)	Gas Group : IIA/IIB or higher	
e)	Temp. Class : T3	
f)	Degree of Protection : IP55	
3.	STANDARDS	
a)	IS-325 amended up to date or equivalent IEC standards.	
b)	Wherever any requirement laid down in this standard differs from that in Indian Standard Specifications, the requirement specified herein shall prevail.	
4.	Enclosure:	
a)	Motors are outdoor service shall be provided with special seals for the enclosure, joints, bearing housing, terminal boxes etc. so that no extra protective covering for ingress of water shall be required.	
b)	All external hardware less than 8 mm shall be SS and more than 8mm shall be zinc passivated or Cadmium plated.	
c)	The enclosure shall be provided with threaded metallic plug to permit drainage of condensed water from the inside.	
5.	Cooling	
a)	All LV motors shall be totally enclosed fan cooled (TEFC) conforming to IC-411 as per IS: 6362.	
b)	The cooling fans shall be suitable for bidirectional rotation of motors. These shall be fastened to the motor shaft by means of compensating rings or will be balanced Independent of the motor. Guide key or reference points shall be supplied to prevent Wrong assembly. The cooling air shall be sucked from the non-driving end.	
c)	The cooling fans shall be made of materials such as cast Aluminum (LM-6 alloy) / cast iron /Cast Steel.	
6.	Direction of Rotation	

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ANNEXURE - I
TECHNICAL REQUIREMENT OF INDUCTION MOTORS

	Motors shall be suitable for both directions of rotation.	
7.	Stator	
a)	The stator laminations shall be made from suitable magnetic sheet iron varnished on Both sides. Where ventilation is required, these shall be arranged in suitable packs, Each pack being separated by spacers to form ventilating ducts for circulation of air.	
b)	The slot shall be open type with coils so arranged that the coils can be easily removed for inspection and repair.	
8.	Rotor	
a)	The rotor shall be of squirrel cage construction	
b)	For small motors, the squirrel cage shall preferably be of pressure die-cast Construction. For large motors, the rotor bars and the end rings shall be of copper or Copper alloy. The bars shall be firmly placed in slots to prevent vibration during startup / locked rotor condition. Conductor ends shall be securely fixed to the end rings using The latest brazing techniques. Retaining rings shall be provided for high speed Machines for the end rings. The rotor cage shall be designed for the required starting And duty cycles.	
c)	The rotor shall be dynamically balanced and shall rotate perfectly with no preferential Stop points. The rotor shall be constructed such as to allow the removal or addition of Material for balancing.	
d)	The rotor shaft shall be electrically and magnetically so balanced that the induced shaft voltage does not exceed 200 millivolt. Otherwise the bearing housing at non-driving end shall be insulated for 2 KV.	
e)	Rotor magnetic center shall be clearly marked on floating type bearings.	
9.	Windings and Insulation	
a)	The motor coils shall be made out of insulated electrolytic grade copper conductor. Successive coils shall be connected by accessible joints, well brazed and finished smooth to prevent damage to insulation.	
b)	All motors shall be insulated with Class F insulated with temperature rise limited to that of Class B.	
c)	The winding coils shall be dried, properly vacuum impregnated with suitable varnishes to withstand the site conditions and properly baked. At least two additional impregnations and baking shall be applied to the assembled stator coil, making a total of three impregnations and baking. Finally the windings shall be painted with special anti-acid and anti-alkali paints to withstand the site conditions.	
d)	The windings shall be well brazed and capable of withstanding thermally and mechanically the transient disturbances	
10.	Bearings	
a)	All motors shall be provided with bearings suitable for the application. The bearings must be guaranteed to ensure a smooth operation and a life not shorter than 20,000 hrs.	
b)	The bearing housing shall be effectively sealed against ingress of dust and water and creep age of lubricants along the shaft.	
c)	The bearing shall be suitable for both directions of rotation of the	

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ANNEXURE - I
TECHNICAL REQUIREMENT OF INDUCTION MOTORS

	motor.	
d)	The motors having frame size 160 M/L and above shall be provided with on-line grease lubrication arrangement. The arrangement shall be complete with grease nipple and drain plug located at convenient locations.	
e)	The manufacturer shall specify the type of lubricant and the time interval of lubrication for the bearings of each motor.	
f)	The bearing temperature shall not exceed 65°C for grease lubricated bearings and 50°C for oil lubricated bearings.	
g)	Greasing path shall be such that grease do not enter the winding. Grease inlet and out shall be fitted with replaceable dust protection covers.	
11.	Terminal Box	
a)	All the terminal boxes shall have identical degree of protection as that of the motor.	
b)	The power terminal box position shall be as per mentioned positions in Annexure-II of respective motors.	
c)	Design of terminal boxes shall be such that it may be possible to arrange proper entry of cables at site.	
d)	The power terminal boxes shall be standard box with epoxy or SRBF moulded Terminal as per Manufacturer's standard.	
e)	All the six leads of the motors shall be taken out to a common Terminal box. Shorting links for delta connections shall be provided in the terminal box.	
f)	The power terminal boxes shall have adequate clearances in between the terminals and also between the terminals and cable gland for proper termination of cables. Where more than one cable is required to be terminated in parallel, the spacing in the box shall be adequate for easy termination.	
h)	Space heater of single phase and suitable power ratings shall be provided for motors of 30 KW and above ratings.	
i)	Separate terminal boxes shall be provided for connection of power, and space heater cables.	
j)	The cable lugs shall be of tinned copper and suitable for crimping.	
12.	Starting	
a)	The motors shall be capable of being started direct-on-line.	
b)	The starting torque of each motor shall be higher than the initial resisting torque of the driven load throughout the starting period even at a feeding voltage of 80% of the rated voltage for normal purpose motor.	
c)	The starting current i.e. breakaway current of 415V motor shall not exceed the values indicated in IS: 12615.	
d)	The motors shall be suitable for the following starting cycle: a) With the motor at ambient temperature - 2 successive starts and 3rd start after 5 minutes. b) With the motor at steady state load temperature - 1 immediate start and 2nd start after 5 minutes. This sequence shall be repeated in the next hour.	



ANNEXURE - I
TECHNICAL REQUIREMENT OF INDUCTION MOTORS

13.	Locked Rotor Condition	
	The locked rotor withstand time (t_L), under hot condition at 110% of rated voltage shall be more than the starting time of the motor coupled to the load even at the lowest stipulated starting voltage by 2 secs. For motors, having starting time up to 10 secs. and By 5 secs. for motors, having starting time more than 10 secs	
14.	Running	
a)	All motors shall be continuous (S1 duty) as per IS: 325.	
b)	The motors shall be capable of delivering the rated output without exceeding the specified temperature rise under the system voltage and frequency variation conditions.	
c)	The motors shall be suitable for running at the rated load for 5 minutes duration at 80% voltage and for 1 Sec. duration at 70% voltage, without exceeding the specified temperature rise	
15.	VIBRATIONS	
	The motors vibrations measured at the bearings must not exceed the limits specified in IS: 12075	
16.	NOISE LEVEL	
	The motors noise level shall not exceed the limits as specified in IS : 12065 at a distance of 1 meter from the motor.	
17.	PAINTING	
a)	Enclosures of the motors and its accessories shall be painted with two coats of anti-rust paint and two coats of anti-corrosive paint after suitable pre-treatment.	
b)	The finishing shade shall be light grey having shade No.631 as per IS: 5 or RAL7035 Siemens Gray.	
18.	Party shall submit the GA drawing, Characteristics Curves for approval within 15 days from the date of PO for all the motors.	
19.	TESTS AND INSPECTION	
	Motors shall be routine tested as per relevant standards and reports shall be submitted along with supply.	
20.	DEVIATIONS	
	Deviations, if any, from this standard shall be clearly indicated in the offer with reasoning.	

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ANNEXURE- II (a)

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [37 KW for PC-1]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency class	IE3 or above	
1.4	Gas Group	IIA/II B or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	37 KW	
2.2	Rated Voltage (V)	415V ± 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz ± 5%	
2.5	Rated Speed (RPM)	3000 (Syn)	
2.6	No of poles		
2.7	Frame Size	D-225S	
2.8	Mounting	IM1001 : B3	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		_____ % FLT
2.16	Pullout Torque		_____ % FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		_____ % FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Top	
2.31	Space heater Rating in wattage		
3.0	Mechanical Data		

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ANNEXURE- II (a)

3.1	Motor Weight		
3.2	Method of cooling	TEFC	
3.3	Rotor GD2 in Kg-m ²		
3.4	Suitable for Outdoor Use		
3.5	Direction of Rotation	Bidirectional	
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication	Required	
3.12	Bearing Nos		
a)	DE		
b)	NDE		

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ANNEXURE- II (b)

13

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [5.5 KW for GN-2632, 102N]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency Class	IE3 or above	
1.4	Gas Group	IIA/IIIB or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	5.5 KW	
2.2	Rated Voltage (V)	415V ± 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz ± 5%	
2.5	Rated Speed (RPM)	3000 (Syn)	
2.6	No of poles		
2.7	Frame Size	132S	
2.8	Mounting	IM1001 : B3	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		% FLT
2.16	Pullout Torque		% FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		% FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Top	
3.0	Mechanical Data		
3.1	Motor Weight		
3.2	Method of cooling	TEFC	

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ANNEXURE- II (b)

3.3	Rotor GD2 in Kg-m ²		
3.4	Suitable for Outdoor Use		
3.5	Direction of Rotation	Bidirectional	
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication available or not		
3.12	Bearing Nos		
a)	DE		
b)	NDE		



ANNEXURE- II (c)

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [37 KW for PC-13,101N]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency Class	IE3 or above	
1.4	Gas Group	IIA/IIIB or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	37 KW!	
2.2	Rated Voltage (V)	415V \pm 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz \pm 5%	
2.5	Rated Speed (RPM)	3000 (Syn)	
2.6	No of poles		
2.7	Frame Size	D-200L	
2.8	Mounting	IM1001 : B3	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		<u> </u> % FLT
2.16	Pullout Torque		<u> </u> % FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		<u> </u> % FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Top	
2.31	Space heater Rating in wattage		
3.0	Mechanical Data		

ANNEXURE- II (c)

3.1	Motor Weight		
3.2	Method of cooling	TEFC	
3.3	Rotor GD2 in Kg-m ²		
3.4	Suitable for Outdoor Use		
3.5	Direction of Rotation	Bidirectional	
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication	Required	
3.12	Bearing Nos		
a)	DE		
b)	NDE		

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ANNEXURE- II (d)

12

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [22.5 KW for PC-6]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency Class	IE3 or above	
1.4	Gas Group	IIA/IIB or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	22.5 KW	
2.2	Rated Voltage (V)	415V \pm 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz \pm 5%	
2.5	Rated Speed (RPM)	3000 (Syn)	
2.6	No of poles		
2.7	Frame Size	180M	
2.8	Mounting	IM1001 : B3	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		% FLT
2.16	Pullout Torque		% FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		% FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Top	
3.0	Mechanical Data		
3.1	Motor Weight		
3.2	Method of cooling	TEFC	

ANNEXURE- II (d)

3.3	Rotor GD2 in Kg-m2		
3.4	Suitable for Outdoor Use		
3.5	Direction of Rotation	Bidirectional	
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication	Required	
3.12	Bearing Nos		
a)	DE		
b)	NDE		

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ANNEXURE- II (e)

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [120 KW for PC-12]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency Class	IE3 or above	
1.4	Gas Group	IIA/II B or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	120 KW	
2.2	Rated Voltage (V)	415V \pm 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz \pm 5%	
2.5	Rated Speed (RPM)	1500 (Syn)	
2.6	No of poles		
2.7	Frame Size	ND315M	
2.8	Mounting	IM 3011 : V1	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		_____ % FLT
2.16	Pullout Torque		_____ % FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		_____ % FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Sidewise	
2.31	Space heater Rating in wattage		
3.0	Mechanical Data		

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ANNEXURE- II (e)

3.1	Motor Weight		
3.2	Method of cooling	TEFC	
3.3	Rotor GD2 in Kg-m2		
3.4	Suitable for Outdoor Use		
3.5	Direction of Rotation	Bidirectional	
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication	Required	
3.12	Bearing Nos		
a)	DE		
b)	NDE		
3.13	Motor's shaft has cuts as per the dimensions shown in Annexure II (e.1).	To be confirmed by the bidder	

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HOLES $\phi 22$
AT PCD 630

33.5

10.5

5.6

$\phi 553.5$

PCD 630

$\phi 684$

MOTOR

150.5

10

10

$\phi 68$

$\phi 80$

KEYWAY
151x21x7.5

SHAFT OF PC-12N/R

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ANNEXURE- II (f)

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [15 KW for 18W]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency Class	IE3 or above	
1.4	Gas Group	IIA/IIB or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	15 KW	
2.2	Rated Voltage (V)	415V \pm 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz \pm 5%	
2.5	Rated Speed (RPM)	3000 (Syn)	
2.6	No of poles		
2.7	Frame Size	180M	
2.8	Mounting	IM1001 : B3	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		<u> </u> % FLT
2.16	Pullout Torque		<u> </u> % FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		<u> </u> % FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Top	
3.0	Mechanical Data		
3.1	Motor Weight		
3.2	Method of cooling	TEFC	

ANNEXURE- II (f)

3.3	Rotor GD2 in Kg-m2		
3.4	Suitable for Outdoor Use		
3.5	Direction of Rotation	Bidirectional	
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication		
3.12	Bearing Nos		
a)	DE		
b)	NDE		

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ANNEXURE- II (g)

TECHNICAL PARTICULARS OF INDUCTION MOTOR TO BE FILLED BY BIDDER [7.5 KW for L.O 2A]

S. No.	Description	Requirements	To be filled by the Bidder
1.0	General		
1.1	Make		
1.2	Enclosure Type	Ex-ec or above	
1.3	Efficiency Class	IE3 or above	
1.4	Gas Group	IIA/IIIB or higher	
2.0	Electrical Data		
2.1	Rated Output Power (KW)	7.5 KW	
2.2	Rated Voltage (V)	415V ± 10% (3 Phase)	
2.3	Rated Current (Amp)		
2.4	Frequency (Hz)	50 Hz ± 5%	
2.5	Rated Speed (RPM)	1500 (Syn)	
2.6	No of poles		
2.7	Frame Size	132M	
2.8	Mounting	IM1001 : B3	
2.9	Duty	S1	
2.10	Temperature Class	T3	
2.11	Class of Insulation	F	
2.12	Degree of Protection	IP55	
2.13	No. of Starts - Hot / Cold		
2.14	Rated Torque (Kg-m)		
2.15	Starting Torque		_____ % FLT
2.16	Pullout Torque		_____ % FLT
2.17	Starting Time at 100% Voltage in secs		
2.18	Amb. Temp. Rise at Full Load		
2.19	Locked rotor current		_____ % FLC
2.20	Locked rotor withstand time (Hot) in secs		
2.21	Locked rotor withstand time (Cold) in secs		
2.22	Efficiency at 100% load / 75% Load / 50% load		
2.23	Power Factor at 100% / 75% / 50% Load		
2.24	Heating Time Constant		
2.25	Cooling Time Constant		
2.26	Method of Starting	DOL	
2.27	Winding Connection	DELTA	
2.28	Number of Terminals		
2.29	Cable size suitable for entry in main TB		
2.30	Terminal box position	Top	
3.0	Mechanical Data		
3.1	Motor Weight		
3.2	Method of cooling	TEFC	

ANNEXURE- II (g)

3.3	Rotor GD2 in Kg-m ²		
3.4	Suitable for Outdoor Use	Bidirectional	
3.5	Direction of Rotation		
3.6	Max vibration limit		
3.7	Max Noise Level		
3.8	Type & Material of Fan		
3.9	Lubrication Type		
3.10	Interval of Lubrication (Hrs)		
3.11	Provision of On Line Lubrication available or not		
3.12	Bearing Nos		
a)	DE		
b)	NDE		


