



# NATIONAL FERTILIZERS LIMITED (NANGAL UNIT)

(A Govt. of India Undertaking)

Naya Nangal (Punjab)-140126 India

Materials Department

Phone-1887-220548; Fax- 01887-220541

NATIONAL FERTILIZERS LIMITED (NFL), Naya Nangal Unit, a Govt. of India Undertaking referred to herein as the Owner “intends to procure “SMART ELECTRONICS PRESSURE TRANSMITTER , DIFFERENTIAL PRESSURE TRANSMITTER & PRESSURE DIFFERENTIAL TRANSMITTERS” for its Plant located at Naya Nangal (Punjab), along with other units of NFL located at Bathinda (Punjab) and Panipat (Haryana).

## ADDITIONAL TERMS AND CONDITIONS (ATC) & NOTICE INVITING TENDER (NIT) FOR

SMART ELECTRONICS PRESSURE TRANSMITTERS (PT) , DIFFERENTIAL PRESSURE TRANSMITTERS (DPT) & PRESSURE DIFFERENTIAL TRANSMITTERS (PDT) REQUIRED FOR DCS PROJECT IN UREA PLANT AT NFL NANGAL, NFL PANIPAT AND NFL BATHINDA

Our Ref: SPX/2024/45

|                |   |                                      |
|----------------|---|--------------------------------------|
| Type of Tender | : | TWO PACKET SYSTEM<br>[ OPEN TENDER ] |
|----------------|---|--------------------------------------|

Buyer Contact Details:

Mail: [balu@nfl.co.in](mailto:balu@nfl.co.in)

Mobile No. 6238819569

## Other Terms and Conditions

1. **Offers not submitted as per instructions are liable to be rejected.**
2. The prices should be on F.O.R NFL Stores Nangal basis, F.O.R NFL Stores Panipat basis & F.O.R NFL Stores Bathinda 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 at NFL Nangal will be released by Nangal Unit, 100% payment of material supplied at NFL Panipat will be released by Panipat Unit & 100% payment of material supplied at NFL Bathinda will be released by Bathinda Unit within 30 days subject to receipt & acceptance of material at **Nangal, Panipat & Bathinda Units.**  
  
**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 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, 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.
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.

24. **INTEGRITY PACT:** You have to upload the duly signed copy of integrity pact as per the format attached with NIT/ATC.

**N.F.L. NANGAL - GSTIN No.03AAACN0189N2ZD  
PAN No. AAACN0189N**

## **Special Terms and Conditions (Techno Commercial):**

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.

**I.EARNEST MONEY DEPOSIT (EMD):** Tenders can be submitted EMD of Rs.1,00,000/- (Rupees One Lakh 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 : **SBIN000689**

MICR : **140002304**

**OR**

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](mailto:sunitak@nfl.co.in)) with cc to [balu@nfl.co.in](mailto:balu@nfl.co.in) for proper accounting of deposited amount

- 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 party shall also arrange confirmation of Bank Guarantee (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".

- iv) The Bank Guarantee should be submitted by your Bank directly to NFL in a sealed cover and not through supplier at following address:

DGM(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.

2. **SECURITY DEPOSIT-CUM-PBG 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 for **Nangal Unit** 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 party shall also arrange confirmation of Bank Guarantee (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".
- iv) The Bank Guarantee should be submitted by your Bank directly to NFL in a sealed cover and not through supplier at following address:

DGM(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-Cum PBG @ 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-Cum PBG** 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-Cum PBG** 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-Cum PBG** 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-Cum PBG**, the tenderer will deposit further sum/sums, so as to maintain the full **Security Deposit-Cum PBG** amount.
- 1.7 The **Security Deposit-Cum PBG** 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-Cum PBG** or any portion thereof which may be due for release until such difference and dispute had been finally settled or adjusted.
3. The **Security Deposit-Cum PBG** will not carry any interest
4. **GUARANTEE/WARRANTY CERTIFICATE:**

“You shall 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”.
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 & other certificates as per ATC along with dispatch documents at NO EXTRA COST to NFL with each supply.
8. 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.
9. 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.
10. 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.
11. **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.
12. In case the manufacturer wants to quote through their authorized dealer/distributor then authorization certificate from the manufacturer is required. For participation in the Tender, authorized dealer/distributor shall confirm that materials will be supplied by them from Prime source, in case order is bagged by them
13. **ANY EXCEPTIONS/DEVIATIONS TO THE ATC SHALL BE SPECIFICALLY STATED.**

14. **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.
15. 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.
16. 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.
17. Party to mention full contact details (Such as Name of the Contact Person, Mob. / Phone, e-mail etc.)
18. **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. **Latest MSE Policy shall be applicable.**
19. 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.**
20. **Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 as per office IOM no. 6/18/2019-PPD dated 23<sup>rd</sup> July 2020 & 8<sup>th</sup> Feb,2021 (Enclosed) 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 along with offer.**



**TECHNO-COMMERCIAL BID TEMPLATE**  
**(BIDDER TO BE FILLED AND MUST SUBMIT WITH THEIR OFFER)**

| Technical Bid Template<br>(May please upload Technical Bid under “.rar” Document)  |             |
|--|-------------|
| NFL Nangal Case Ref. No.   | SPX/2024/45 |
| GeM bid No.  |             |
| Quotation No. & Date   |             |
| Name of Bidder & Complete Address:   |             |
| <b>Vendor's Contact Details:</b> Vendor may furnish E-Mail Id, Telephone / Mobile No. etc. along with complete Name & Address details of the firm for Clarifications / Placement of Order. |             |

| Sr. No. | NFL Requirement as per NIT |   |      |     |                                 | Vendors Comment (Agreed / Not Agreed) |
|---------|----------------------------|---|------|-----|---------------------------------|---------------------------------------|
|         | Sr. No                     | Description of Material   | Qty. | UOM | Consignee/<br>Delivery location |                                       |
| 1       | I                          | SMART ELECTRONICS PRESSURE TRANSMITTER ALONG WITH MANIFOLD. OTHER DETAILS SPECIFICATION AS PER ATTACHED ANNEXURE-1 & 2A   | 34   | No. | NFL, NANGAL                     |                                       |
|         | II                         | SMART ELECTRONICS DIFFERENTIAL PRESSURE TRANSMITTER ALONG WITH MANIFOLD. OTHER DETAILS SPECIFICATION AS PER ATTACHED ANNEXURE-1 & 2B  | 6    | No. | NFL, NANGAL                     |                                       |
|         | III                        | HART COMMUNICATOR (LATEST VERSION) OF REPUTED MAKE. HART COMMUNICATOR MUST BE COMPATIBLE WITH ALL TYPE OF TRANSMITTERS OF DIFFERENT VENDOR'S MAKE. PARTY SHALL SUBMIT MAKE AND MODEL OF THE HART COMMUNICATOR ALONG WITH QUOTATION. HART COMMUNICATOR SHALL HAVE SOFTWARE UPGRADE SUPPORT FOR NEXT FIVE YEARS FREE OF COST FROM THE DATE OF EXPIRY OF WARRANTY PERIOD. ALL GUARANTEES AND WARRANTIES OF HART COMMUNICATOR SHALL BE IN VENDOR SCOPE. | 1    | No. | NFL, NANGAL                     |                                       |
|         | IV                         | TWO WIRE SMART ELECTRONIC PRESSURE TRANSMITTER ALONG WITH MANIFOLD. OTHER DETAILED TECHNICAL SPECIFICATIONS ARE AS PER ANNEXURE-1. TAG WISE SPECIFICATIONS ARE AS PER ANNEXURE-3A   | 68   | No. | NFL PANIPAT                     |                                       |
|         | V                          | TWO WIRE SMART ELECTRONIC DIFFERENTIAL PRESSURE TRANSMITTER ALONG WITH MANIFOLD. OTHER DETAILED TECHNICAL SPECIFICATIONS ARE AS PER ANNEXURE-1. TAG WISE SPECIFICATIONS ARE AS PER ANNEXURE-3B  | 34   | No. | NFL PANIPAT                     |                                       |
|         | VI                         | TWO WIRE SMART ELECTRONIC PRESSURE DIFFERENTIAL TRANSMITTER ALONG WITH MANIFOLD. OTHER DETAILED TECHNICAL SPECIFICATIONS ARE AS PER ANNEXURE-1. TAG WISE SPECIFICATIONS ARE AS PER ANNEXURE-3C  | 5    | No. | NFL PANIPAT                     |                                       |

|                         |   |    |     |              |  |
|-------------------------|---|----|-----|--------------|--|
| VII                     | HART COMMUNICATOR (LATEST VERSION) OF REPUTED MAKE. HART COMMUNICATOR MUST BE COMPATIBLE WITH ALL TYPE OF TRANSMITTERS OF DIFFERENT VENDOR'S MAKE. PARTY SHALL SUBMIT MAKE AND MODEL OF THE HART COMMUNICATOR ALONG WITH QUOTATION. HART COMMUNICATOR SHALL HAVE SOFTWARE UPGRADE SUPPORT FOR NEXT FIVE YEARS FREE OF COST FROM THE DATE OF EXPIRY OF WARRANTY PERIOD. ALL GUARANTEES AND WARRANTIES OF HART COMMUNICATOR SHALL BE IN VENDOR SCOPE. | 1  | No. | NFL PANIPAT  |  |
| VIII                    | SMART PRESSURE TRANSMITTERS FOR UREA DCS UP-GRADATION PROJECT. SPECIFICATIONS ARE AS PER ATTACHED ANNEXURE. TAGS ARE MENTINED IN ANNEXURE 4A & ANNEXURE-1   | 64 | No. | NFL BATHINDA |  |
| IX                      | DIFFERENTIAL PRESSURE TRANSMITTERS FOR UREA DCS UP-GRADATION PROJECT. SPECIFICATIONS ARE AS PER ATTACHED ANNEXURE. TAGS ARE MENTINED IN ANNEXURE 4B & ANNEXURE-1  | 20 | No. | NFL BATHINDA |  |
| X                       | PRESSURE DIFFERENTIAL TRANSMITTERS FOR UREA DCS UP-GRADATION PROJECT. SPECIFICATIONS ARE AS PER ATTACHED ANNEXURE. TAGS ARE MENTINED IN ANNEXURE 4C & ANNEXURE-1  | 2  | No. | NFL BATHINDA |  |
| XI                      | HART COMMUNICATOR (LATEST VERSION) OF REPUTED MAKE. HART COMMUNICATOR MUST BE COMPATIBLE WITH ALL TYPE OF TRANSMITTERS OF DIFFERENT VENDOR'S MAKE. PARTY SHALL SUBMIT MAKE AND MODEL OF THE HART COMMUNICATOR ALONG WITH QUOTATION. HART COMMUNICATOR SHALL HAVE SOFTWARE UPGRADE SUPPORT FOR NEXT FIVE YEARS FREE OF COST FROM THE DATE OF EXPIRY OF WARRANTY PERIOD. ALL GUARANTEES AND WARRANTIES OF HART COMMUNICATOR SHALL BE IN VENDOR SCOPE. | 1  | No  | NFL BATHINDA |  |
| <b>Special Note(s):</b> |   |    |     |              |  |
| <b>i</b>                | Offers shall be evaluated on L-1 basis item wise  |    |     |              |  |
| <b>ii</b>               | Range ability of each transmitter shall be preferably 1:5 or better for all units i.e. Nangal, Panipat and Bathinda Unit.   |    |     |              |  |
| <b>iii</b>              | For each transmitter, Pressure test certificate and material test certificate of wetted parts is required along with supply of material for each unit i.e. Nangal, Panipat and Bathinda Unit.   |    |     |              |  |
| <b>iv</b>               | For each transmitter Calibration report is required along with supply of material for each unit i.e. Nangal, Panipat and Bathinda Unit.   |    |     |              |  |
| <b>v</b>                | Bidder shall submit technical data sheet along with offer   |    |     |              |  |
| <b>vi</b>               | Bidder shall provide operations and maintenance manual along with supply of material for each unit i.e. Nangal, Panipat and Bathinda Unit.  |    |     |              |  |
| <b>vii</b>              | Bidder shall submit catalogue and DE codification sheet along with offer.   |    |     |              |  |

|   |   |  |
|---|---|--|
| <b>viii</b>   | BIDDER TO QUOTE 2/3/5 WAY MANIFOLD ALONG WITH TRANSMITTER.  |  |
| <b>ix</b>   | BIDDER SHALL SUPPLY 01 (ONE) NO HART COMMUNICATOR (LATEST VERSION) OF REPUTED MAKE AT EACH UNIT (I.E. NANGAL, PANIPAT AND BATHINDA UNIT.) ALONG WITH THE SUPPLY OF MATERIAL.  |  |
| <b>x</b>  | COMMON TECHNICAL SPECIFICATIONS FOR ALL THE THREE UNITS (I.E NANGAL, PANIPAT & BATHINDA) FOR PT & DPT ARE AS PER ANNEXURE-1.<br>SPECIFICATIONS/ DETAILS RELATED TO TAG NO, CALIBRATION RANGE, SERVICE, APPLICATION, MOC, PROCESS CONNECTION ETC., ARE SPECIFIED IN ANNEXURE-2A,2B FOR NANGAL UNIT, ANNEXURE-3A,3B & 3C FOR PANIPAT UNIT, ANNEXURE-4A,4B&4C FOR BATHINDA UNIT.<br>(BIDDER TO PROVIDE THEIR ACCEPTANCE/COMPLIANCE TO ALL TECHNICAL SPECIFICATIONS OF ANNEXURES MENTIONED AS ABOVE). |  |
| <b>xi</b>   | HART COMMUNICATOR MUST BE COMPATIBLE WITH ALL TYPE OF TRANSMITTERS OF DIFFERENT VENDOR'S MAKE   |  |
| <b>xii</b>  | BIDDER SHALL SUBMIT MAKE AND MODEL OF THE HART COMMUNICATOR ALONG WITH QUOTATION  |  |
| <b>xiii</b>   | SUPPLIED HART COMMUNICATOR SHALL HAVE SOFTWARE UPGRADE SUPPORT FOR NEXT FIVE YEARS FREE OF COST FROM THE DATE OF EXPIRY OF WARRANTY PERIOD  |  |
| <b>xiv</b>  | ALL GUARANTEES AND WARRANTIES OF HART COMMUNICATOR SHALL BE TAKEN CARE OF BY THE BIDDER.  |  |
| <b>Xv<br/>Delivery<br/>Location/<br/>Consignee</b>      | Material with Sr no. I,II &III shall be dispatched to Nangal unit.<br><br>Material with Sr no. IV, V,VI &VII shall be dispatched to Panipat unit.<br><br>Material with Sr no. VIII, IX, X & XI shall be dispatched to Bathinda unit.<br><br>Material inspection & payments shall be done by respective units (i.e. Nangal, Panipat and Bathinda Unit)   |  |
| <b>xvi</b>  | The prices should be on F.O.R NFL Stores Nangal basis for <b>Sr no. I,II &amp;III.</b><br><br>F.O.R NFL Stores Panipat basis for <b>Sr no. IV, V,VI &amp;VII</b><br><br>F.O.R NFL Stores Bathinda basis for <b>Sr no. VIII, IX, X &amp; XI</b><br><br>(i.e. Bidder to quote FOR Price inclusive of all ie. Basic Price + P&F + Freight + Transit Insurance + MTC Charges+ Calibration certificate charges + any other charges if applicable as per tender+ GST etc.)                              |  |
| <b>xvii<br/>Earnest<br/>Money<br/>Deposit<br/>(EMD)</b> | <b>Rs.1,00,000/- (Rupees One Lakh Only) in the form of RTGS/NEFT/BG (detailed as per NIT Clause No.1 (I) of STC</b><br><b>-(Exemption to MSE Vendors to submit EMD, against submitting of valid MSE Registration Certificate along with offer)</b><br><b>Amount of EMD mentioned against each item (schedule) in the Bid document due to GeM constraint. However, party has to submit total EMD of Rs.1,00,000/- along with their offer irrespective of schedule.</b>                             |  |
| <b>xviii<br/>Security<br/>Deposit-cum-<br/>PBG</b>      | <b>(i)In case of order, the tenderer shall be required to furnish non-interest bearing SD-cum-PBG @ 5% of the Basic Value of the Order after adjusting EMD (if already submitted) within 15 days from the date receipt of order.</b><br><b>(Detailed as per NIT Clause No.2 of STC ).</b>   |  |
|   | <b>(ii)SD CUM PBG shall be submitted to respective unit.</b>  |  |

|    |  |   |                 |
|----|--|---|-----------------|
|    | <b>xix</b><br>URN No.<br>Detail                      | Incase EMD/SD-cum-PBG submitted through NEFT/RTGS, URN. No for the same may be mentioned & to be intimated at <a href="mailto:balu@nfl.co.in">balu@nfl.co.in</a> , <a href="mailto:sunitak@nfl.co.in">sunitak@nfl.co.in</a>   |                 |
|    | <b>Xx</b><br>Guarantee/<br>Warrantee<br>Certificates | You shall 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 |                 |
|    | <b>xxi</b><br>Eligibility<br>Criteria                | Bidder shall agree to Eligibility Criteria conditions as per Annexure D of tender and shall upload necessary supporting documents mentioned in it. Offers not meeting the eligibility criteria shall be rejected.   |                 |
|    | <b>xxii</b><br>Payment Term                          | <b>No Advance Payment shall be made.</b><br>100% payment of material supplied at NFL Nangal will be released by Nangal Unit, 100% payment of material supplied at NFL Panipat will be released by Panipat Unit & 100% payment of material supplied at NFL Bathinda will be released by Bathinda Unit i.e. within 30 days subject to receipt and acceptance of material at <b>Nangal, Panipat &amp; Bathinda Units.</b>  |                 |
|    | <b>xxiii</b>   | Kindly mention the GST (%age)<br><br><b>However, quoted rates must be inclusive of all GST.</b>   | .....<br>.....% |
| 2  | Offer Validity                                       | Price and delivery quoted by you must be firm and valid for a minimum period of <b>120 days</b> from the date of Opening of Quotation.  |                 |
| 3  | Complete Bank Details                                | Please mention your Complete Bank details and upload a copy cancelled cheque.   |                 |
| 4  | Transit Insurance                                    | Transit Insurance will be arranged by supplier at his cost  |                 |
| 5  | <b>Price Basis</b>                                   | Please confirm that quoted prices are on <b>FOR Basis.</b>  |                 |
| 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                                      | <b>Party to deliver the material within 90 days from the date of receipt of GeM PO/NFL PO.</b>  |                 |
| 8  | Liquidated Damages                                   | 1/2 % per week subject to Maximum 5 % of Delivery Order Value.  |                 |
| 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.<br><b>MSE Policy shall be applicable.</b>   |                 |

|    |                                       |   |  |
|----|---------------------------------------|---|--|
| 13 | Relationship                          | <ul style="list-style-type: none"> <li>It shall be certified by the tenderer that None of NFL Employee is related to Owner / Director of Firm.</li> <li>It shall be certified by the tenderer that None of Ex-Employee of NFL is employed with vendor Firm.</li> <li>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.</li> </ul>                |  |
| 14 | Debarment                             | <p>Bidders shall give Self certification that they have not been Debarred by any Government Department/Public Sector Undertaking/Co-Operative Unit. Offers of such Debarred bidders shall not be considered.</p> <p><b>Please Do not mention 'Agreed' against this column, give self-certification.</b></p>   |  |
| 15 | 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.   |  |
|    | *                                     | Please confirm acceptance of all the above terms and conditions of this Tender Document.  |  |
|    | MSMED Registration                    | <p>Whether registered under MSMED Act, 2006. If YES, state the category i.e. Micro/ Small/ Medium Enterprises.</p> <p><b>(Details as per Clause No.35 under Other Terms &amp; Conditions of NIT)</b></p>  |  |
| 16 | <b>MAKE IN INDIA</b>                  | <p>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<sup>th</sup> June 2017 Revision (Amended on 04.06.2020) of Ministry of Commerce and Industry, Department of Industrial Policy and Promotion (DIPP)</p>                                      |  |
|    | A                                     | The ' <b>Class-I local supplier</b> '/' <b>Class-II Local supplier</b> ' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I Local supplier'/'Class-II Local supplier', as the case may be. They shall also give details of the locations (s) at which the local value addition is made. |  |
|    | i                                     | <p>The '<b>Class-I local supplier</b>' = The minimum Local content equal or more than =50%</p> <p><b><u>Indicate percentage of local content and provide self-certification</u></b></p>   |  |
|    | ii                                    | <p>The '<b>Class-II local supplier</b>' = The minimum Local content equal or more than 20% but less than =50%</p> <p><b><u>Indicate percentage of local content and provide self-certification</u></b></p>  |  |
|    | iii                                   | <p><b>Non-Local Supplier</b>- Means a supplier or service provider, whose goods, services or work offered for procurement, has local content less than 20%,</p> <p><b><u>Indicate percentage of local content and provide self-certification.</u></b></p>   |  |
| 17 | <b>MSE</b>                            | <b>MSMED ACT:</b> 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  |  |
| 18 | Specifications of materials           | Vendor to confirm that their quoted material will be as per our NIT Specifications.   |  |
| 19 | Acceptance of NIT Terms & Conditions  | Vendor will confirm their acceptance to the Terms and Conditions of the NIT without any deviation.  |  |

|    |   |  |  |
|----|---|--|--|
| 20 | <b>RESTRICTION CERTIFICATION ON PROCUREMENT</b>   | <b>Kindly confirm/submit the Certificate of Compliance along with quotation (If Applicable) vide Govt. Office Memorandum Dated: 23.07.2020 &amp; 08.02.2021 as per Sr. No. 20 of Special Terms &amp; Conditions (Techno Commercial).</b> |  |
| 21 | 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"> <li>• No</li> <li>• Yes, RXIL/A-Treds/M1Xchange</li> </ul> Registration Number- (tick agency with whom you are registered along with registration No)   |  |
| 22 | <b>SIGNED INTEGRITY PACT</b>  | Please upload copy of SIGNED INTEGRITY PACT as per Format attached with ATC.   |  |

**ELIGIBILITY CRITERIA**

| Sr. No. | Eligibility Criteria  | Supporting Documents required  | Vendor confirmation (submitted/ Not submitted) |
|---------|---|--|--|
| 1       | The bidder should be a manufacturer or authorized dealer of the manufacturer.   | <p>i) <b>In case of Manufacturer</b>, Bidder shall furnish a copy of valid Industrial/Factory Licence or any other documentary proof being manufacturer, issued by statutory Authority / Govt Agency.</p> <p>ii) <b>In case of dealer</b>, a Tender Specific authorization from manufacturer shall also be furnished for this particular tender, along with document sought at i) above from the Manufacturer.</p>   |  |
| 2       | <p>The bidder should have supplied similar item at any Fertilizer Plant/Petrochemical/Refinery during the last seven years ending last day of previous month in which NIT has been issued.</p> <p><b>Similar item means:<br/>Smart Pressure Transmitter and Smart Differential Pressure Transmitter</b></p> | <p>The bidder shall submit copies of Purchase Orders (PO) / Contracts with full technical scope of work &amp; commercial details for at least one of the following:</p> <p>a) Three PO's/Contracts for supply of similar Item each costing not less than <b>Rs.31.21 Lacs</b> (inclusive of GST)<br/><b>OR</b></p> <p>b) Two PO's/Contracts for supply of similar Item each costing not less than <b>Rs.39.02 Lacs</b> (inclusive of GST)<br/><b>OR</b></p> <p>c) One PO / Contract for supply of similar Item each costing not less than <b>Rs.62.42 Lacs</b> (inclusive of GST)</p>  |  |
| 3       | Party shall submit Performance certificate of the similar Item from the end user for a minimum period of one year during last seven years ending last day of the previous month in which NIT has been issued.   | <p>Performance certificate of the offered material against the PO submitted by the bidder as per point no.2 above from the End Users regarding the satisfactory performance of the offered Item mentioning that the said Item is in use and has performed satisfactorily for a minimum period of one year.</p> <p><i>In case party is not able to submit Performance certificate from End User, then party shall submit self-certificate confirming that offered system has performed satisfactorily for a minimum period of one year.</i></p> <p><b>and</b></p> <p><i>Also submit the Name &amp; address of the User plant and Name, phone. No. &amp; email ID's of all the concerned persons of User Plant.</i></p> <p>In such case, decision of NFL on acceptance of bid will be final and binding to the vendor.</p> |  |
| 3       | The average annual financial turnover of the bidder during the last three financial years i.e. 2021-22, 2022-23 and 2023-24 should be not less than <b>Rs.31.21 Lacs</b> .  | Bidder shall submit copies of Audited Profit & Loss Account and Balance Sheet with UDIN for the last three financial years i.e. 2021-22, 2022-23 and 2023-24. In case, audited balance sheet / profit & loss account statement is not available, turnover certificate duly certified by Chartered Accountant with UDIN as documentary evidence in support thereof.   |  |

**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)



**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)

**BID SECURITY (EMD) FORM  
DRAFT OF BANK GUARANTEE FOR BID SECURITY DEPOSIT/EMD**

IN CONSIDERATION OF NATIONAL FERTILIZERS LIMITED (NFL), HAVING ITS REGISTERED OFFICE AT SCOPE COMPLEX, CORE-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 \_\_\_\_\_ (HEREINAFTER CALLED THE, THE SAID TENDERER(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 CONDITIONS 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 EXCEEDING RS. \_\_\_\_\_ (RUPEES \_\_\_\_\_ ONLY) AGAINST ANY LOSS OR DAMAGE CAUSED TO OR SUFFERED BY 'NFL' 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 AND 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 OR 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 SATISFIED 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 \_\_\_\_\_ 200

CORPORATE SEAL

FOR BANK.

## ANNEXURE: SD-CUM-PBG FORMAT

### 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 to the context or contrary to the meaning thereof include its successors and assigns on the other part.

WHEREAS in pursuance to the agreement 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 the Security 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 / Erection / Completion 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 up to \_\_\_\_\_ 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)

## INTEGRITY PACT

Integrity Pact (IP) is a tool developed by Transparency International (TI) to help governments, businesses and civil society, which are prepared to fight corruption in the field of public contracting and procurement. NFL, as one of its endeavors to maintain and foster most ethical and corruption free business environment, have decided to adopt the Integrity Pact, to ensure that all activities and transactions between the Company (NFL) and its Counterparties (Bidders, Contractors, Vendors, Suppliers, Service Providers/Consultants etc.) are handled in a fair and transparent manner, completely free of corruption. Accordingly, a Memorandum of Understanding (MoU) on Integrity Pact has been signed on 9th May, 2014 by NFL with Transparency International India (Indian chapter of Transparency International).

Integrity Pact is aimed at reducing corrupt practices during procurement and contracts through an agreement between the Principal (NFL) and Counterparties. The agreement seeks commitment from the persons/officials of both the parties not to demand or accept any bribe or gift. Only those vendors/bidders who enter into such an integrity pact with the buyer qualify to participate in the bidding process.

Integrity Pact is implemented through Independent External Monitors who ensure that concerned parties comply with their respective obligations under the Integrity Pact. Independent External Monitors (IEMs) nominated by Central Vigilance Commission (CVC) shall monitor the activities. Any tender related complaint, for tenders covered under Integrity Pact having value of Rs.1 (one) crore and above, may be addressed to the Independent External Monitors (IEMs) as per details given below:

(IEMs)

(1). Shri Hermanprit Singh  
12, Bevedre Road, Alipore  
Kolkata-700027  
E-mail: [hermanprit@gmail.com](mailto:hermanprit@gmail.com);

(2). Shri Rakesh Kumar Agrawal  
A-15, Ground Floor  
South Extension part-II  
New Delhi-110049  
E-mail: [rkagrwal1958@gmail.com](mailto:rkagrwal1958@gmail.com);

(3). Shri Rajit Ranjan Okhandiar  
House No. 154  
Silveroak Resort, Rajnukunte  
Bengaluru-560064  
E-mail: [rajit123@gmail.com](mailto:rajit123@gmail.com);



(To be executed on plain paper and submitted along with technical bid/tender documents for tenders having a value of Rs. 1 crore or more. To be signed by the bidder and NFL.)

National Fertilizers Limited (NFL) herein after referred to as "The Principal".

AND

\_\_\_\_\_ herein after referred to as "The Bidder/Contractor"

PREAMBLE

The Principal intends to award, under laid down organizational procedures, contract/s for \_\_\_\_\_. The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor/s (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

**Section 1 – Commitments of the Principal**

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the personal is not legally entitled to.
  - b) The Principal will during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.
  - c) The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

**Section 2 – Commitments of the Bidder(s)/Contractor(s)**

1. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution:
  - a. The Bidder(s)/contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person



any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage or during the execution of the contract.

- b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
  - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/Contractors will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or documents provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the bidder(s)/contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. All the payments made to the India agent/representative have to be in Indian Rupees only.
  - e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### **Section 3: Disqualification from tender process and exclusion from future contract**

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or to terminate the contract, if already signed, for such reasons.

### **Section 4: Compensation for Damages**

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

### **Section 5: Previous Transgression**

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the TII's anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.





2. If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process and appropriate action can be taken including termination of the contract, if already awarded, for such reason.

**Section 6: Equal treatment of all Bidders/Contractors/Sub-contractors.**

1. The Principal will enter into agreements with the identical conditions as this one with all bidders, contractors and sub-contractors.
2. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

**Section 7: Criminal charges against violation Bidder(s)/Contractor(s)/Sub-contractors(s).**

If the Principal obtains knowledge of conduct of a Bidder(s)/ Contractor(s) which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

**Section 8: Independent External Monitor/Monitors**

1. The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. It will be obligatory for him to treat the information and documents of bidders /contractors as confidential. He reports to the Chairman & Managing Director, NFL.
3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairman & Managing Director,, NFL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should be occasion arise, submit proposals for correcting problematic situations.
7. Monitor shall be entitled to compensation on the same terms as being



extended to/provided to Independent Directors on NFL Board.

8. If the Monitor has reported to the Chairman & Managing Director, National Fertilizers Limited, a substantiated suspicion of an offence under relevant IPC/PC Act, and the Chairman & Managing Director, NFL has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word "Monitor" word include both singular and plural.

#### Section 9: Pact Duration

This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidder 6 months after the contract has been awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairman & Managing Director of NFL.

#### Section 10: Other Provisions

- This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal i.e., New Delhi.
- Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- If the contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- A person signing IP shall not approach the courts while representing the matters to IEMs and he/she will await their decision in the matter.
- COMPLIANCE WITH LABOUR LAWS/CODES/SCHEMES:

"The bidder (s)/Contractor (s) shall, wherever applicable, comply with all the statutory requirements relating to the contracts such as relevant Labour Laws/Codes/Schemes including but not limited to the EPF & Misc. Provisions Act-1952, the ESI Act-1948, the payment of Bonus Act-1965, the Contract Labour (Regulation & Abolition) Act, 1970, the Minimum Wages Act-1948, etc. as amended from time to time and for the time being in force."

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# PT & DPT SPECIFICATIONS

(Revised)

Two wire Smart Microprocessor based Electronic Pressure Transmitter & Differential Pressure Transmitter for communication.

| ITEM |               |  |                                   |
|------|---------------|--|-----------------------------------|
| 1.   | Tag No.       | As per Table given below   | 31. Mounting                      |
| 2.   | Sensor Type   | Piezo-resistive / Micro capacitance / Silicon resonance transducer | Universal Type, on 2" Pipe / Yoke |
| 3.   | Filling Fluid | Silicon Oil/ Fluoro Lube Oil                                       | PROCESS CONDITIONS                |
| 4.   | Application   | As per Table given below   | 32. Service                       |
| 5.   | Manifold Type | As per Table given below   | As per Table given below          |
|      |               |  | 33. Process Temp. & Press.        |
|      |               |  | As per Table given below          |
|      |               |  | 34. Normal Pressure               |
|      |               |  | As per Table given below          |
|      |               |  | AMBIENT                           |
|      |               |  | 35. Ambient Temperature           |
|      |               |  | Range                             |
|      |               |  | 0 - 80 °C                         |
|      |               |  | 36. Relative Humidity             |
|      |               |  | 5 - 95 %                          |
|      |               |  | MATERIAL                          |
|      |               |  | 37. Diaphragm material            |
|      |               |  | As Per Table.                     |
|      |               |  | 38. Body & all wetted parts       |
|      |               |  | material                          |
|      |               |  | As Per Table.                     |
|      |               |  | 39. Drain / Vent Port             |
|      |               |  | SS-316.                           |
|      |               |  | 40. O-Ring For Process            |
|      |               |  | Adaptor                           |
|      |               |  | High Quality PTFE or suitable for |
|      |               |  | Process conditions                |
|      |               |  | 41. Blind Plug                    |
|      |               |  | SS 304                            |
|      |               |  | 42. Cable Gland.                  |
|      |               |  | SS 304 or better                  |
|      |               |  | 43. Manifold                      |
|      |               |  | SS 316                            |
|      |               |  | 44. Mounting Accessories,         |
|      |               |  | Mounting Clamps, Bolts,           |
|      |               |  | Nuts, Fasteners & Plate           |
|      |               |  | CERTIFICATION                     |
|      |               |  | 45. Environ. Prot. Class          |
|      |               |  | IP-65 or Better                   |
|      |               |  | 46. Lightening Protection         |
|      |               |  | Required                          |
|      |               |  | 47. EMC/RFI Compliance            |
|      |               |  | Required                          |
|      |               |  | 48. Area Classification           |
|      |               |  | EE,ia,IIC,T4                      |
|      |               |  | 49. Intrinsic Safety              |
|      |               |  | Required                          |
|      |               |  | STANDARDIZATION                   |
|      |               |  | 50. Calibration Report            |
|      |               |  | Required                          |
|      |               |  | 51. Pressure Test Report          |
|      |               |  | Required                          |
|      |               |  | 52. MOC                           |
|      |               |  | Required                          |
|      |               |  | MISCELLANEOUS                     |
|      |               |  | 53. Tag Plate                     |
|      |               |  | Required, Embossed on SS304       |
|      |               |  | 54. Manuel Hard/Soft Copy         |
|      |               |  | Required                          |
|      |               |  | 55. Catalogue /de-codification    |
|      |               |  | Required                          |
|      |               |  | ADDITIONAL ACCESSORIES            |
|      |               |  | 56. Hart communicator             |
|      |               |  | As per note given below           |

Note:

- Party to supply one no. Hart communicator (Latest version) of reputed make for each unit along with the supply of material for each unit. HART communicator must be compatible with all type of transmitters of different vendor's make. Party to submit make and model of the HART communicator along with quotation. Supplied HART communicator shall have software upgrade support for next five years free of cost from the date of expiry of warranty period. All guarantees and warranties of HART communicator shall be taken care of by the party.
- Party should quote communicator separately.

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## PT SPECIFICATIONS DETAIL

### NANGAL UNIT

| Sr. No. | Tag No.         | Application | Service                                  | Calibration Range          | Process Temp. / Pressure       | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating    | Process Connections | Qty. | Remarks |
|---------|-----------------|-------------|--|----------------------------|--------------------------------|--------------------|----------------------------------|---------------|-----------|---------------------|------|---------|
| 1       | PT-05           | Pressure    | 33 ATA steam pressure                    | 0 - 40 Kg/cm <sup>2</sup>  | 360 °C, 29 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | 2-Way         | 100Kg/cm2 | 1/2"NPT(F)          | 3    |         |
| 2       | PT-29           | Pressure    | NH <sub>3</sub> suction press 10pa-1a/1r | 0 - 40 Kg/cm <sup>2</sup>  | 19 °C, 22 Kg/cm <sup>2</sup>   | SS 316L            | SS 316L                          | 2-Way         | 100Kg/cm2 | 1/2"NPT(F)          | 3    |         |
| 3       | PT-40           | Pressure    | 3 ATA steam pressure                     | 0 - 10 Kg/cm <sup>2</sup>  | 145 °C, 3 Kg/cm <sup>2</sup>   | SS 316             | SS 316                           | 2-Way         | 16Kg/cm2  | 1/2"NPT(F)          | 1    |         |
| 4       | PT-jacket steam | Pressure    | SD-5 jacket steam pressure               | 0 - 6 Kg/cm <sup>2</sup>   | 175 °C, 4.4 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 2-Way         | 16Kg/cm2  | 1/2"NPT(F)          | 1    |         |
| 5       | PT-81.126       | Pressure    | Line discharge pressure                  | 0 - 300 Kg/cm <sup>2</sup> | 131 °C, 220 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 2-Way         | 400Kg/cm2 | 1/2"NPT(F)          | 2    |         |
| 6       | PT-118          | Pressure    | L.P. steam to hydrolyser                 | 0 - 16 Kg/cm <sup>2</sup>  | 290 °C, 7.5 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 2-Way         | 30Kg/cm2  | 1/2"NPT(F)          | 1    |         |
| 7       | PT-2002         | Pressure    | Air to K-1N                              | 0 - 10 Kg/cm <sup>2</sup>  | 40 °C, 4 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | 2-Way         | 16Kg/cm2  | 1/2"NPT(F)          | 1    |         |
| 8       | PT-2005         | Pressure    | K-1N suction pressure, Coy gas           | 0 - 3 ABSOLUTE             | 26 °C, 1.56(a)                 | SS 316             | SS 316                           | 2-Way         | 16Kg/cm2  | 1/2"NPT(F)          | 3    |         |
| 9       | PT-2006         | Pressure    | K-1N discharge pressure, Coy gas         | 0 - 300 Kg/cm <sup>2</sup> | 170 °C, 221 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 2-Way         | 400Kg/cm2 | 1/2"NPT(F)          | 3    |         |
| 10      | PT-2014         | Pressure    | Carbonate condenser pressure, Steam      | 0 - 15 Kg/cm <sup>2</sup>  | 175 °C, 6.5 Kg/cm <sup>2</sup> | SS 316L            | SS 316L                          | 2-Way         | 30Kg/cm2  | 1/2"NPT(F)          | 1    |         |
| 11      | PASL-207        | Pressure    | Lube oil pressure                        | 0-10 Kg/cm <sup>2</sup>    | 40 °C, 2.5 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | 2-Way         | 16Kg/cm2  | 1/2"NPT(F)          | 15   |         |

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DPT SPECIFICATIONS DETAIL

NANGAL UNIT

| Sr. No. | Tag No.     | Application | Service | Calibration Range | Process Temp. / Pressure      | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating  | Process Connections | Qty. | Remarks |
|---------|-------------|-------------|---------|-------------------|-------------------------------|--------------------|----------------------------------|---------------|---------|---------------------|------|---------|
| 1       | FT-7        | Flow        | Steam   | 0-5000 mm         | 485 °C, 33 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 5-Way         | 800 lbs | 1/2"NPT(F)          | 1    |         |
| 2       | FT-16       | Flow        | Steam   | 0-5000 mm         | 385 °C, 27 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 5-Way         | 600 lbs | 1/2"NPT(F)          | 1    |         |
| 3       | FT-50/51/53 | Flow        | Water   | 0-2500 mm         | 20 °C, 4 Kg/cm <sup>2</sup>   | SS 316             | SS 316                           | 3-Way         | 150 lbs | 1/2"NPT(F)          | 3    |         |
| 4       | FT-52       | Flow        | Steam   | 0-1250 mm         | 150 °C, 3 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | 5-Way         | 150 lbs | 1/2"NPT(F)          | 1    |         |

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नंगल इकाई नेशनल फर्टिलाइजर लिमिटेड

नंगल इकाई नेशनल फर्टिलाइजर लिमिटेड

## P. SPECIFICATIONS DETAIL

## PANIPAT UNIT

| Sl. No. | Tag No.           | Application         | Service                    | Calibration Range              | Process Temp./Pressure         | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating     | Process Connections | Qty. | Remarks |
|---------|-------------------|---------------------|----------------------------|--------------------------------|--------------------------------|--------------------|----------------------------------|---------------|------------|---------------------|------|---------|
| 1       | U-PRCA-101        | Pressure, CTL       | Liquid ammonia             | 0-400 Kg/cm <sup>2</sup>       | 0-83 C/250 Kg/cm <sup>2</sup>  | Hastelloy C        | SS 316L                          | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 2       | CA-101A-D disc, P | Pressure Indication | Liquid ammonia             | 0-400 Kg/cm <sup>2</sup>       | 0-83 C/250 Kg/cm <sup>2</sup>  | Hastelloy C        | SS 316L                          | See Note-1    | See Note-2 | 1/2"NPT(F)          | 4    |         |
| 3       | U-PIA-102         | Pressure, Logic     | Liquid ammonia             | 0-400 Kg/cm <sup>2</sup>       | 0-84 C/250 Kg/cm <sup>2</sup>  | Hastelloy C        | SS 316L                          | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 4       | U-PIA-105         | Pressure, Logic     | Liquid ammonia             | 0-35 Kg/cm <sup>2</sup>        | 0-83 C/30 Kg/cm <sup>2</sup>   | Hastelloy C        | SS 316L                          | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 5       | U-PIC-301         | Pressure, CTL       | Steam                      | 0-8 Kg/cm <sup>2</sup>         | 0-158 C/3.5 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 6       | U-PI-401          | Pressure, CTL       | Ammonia gas                | 0-40 Kg/cm <sup>2</sup>        | 0-50 C/17 Kg/cm <sup>2</sup>   | SS 316L            | SS 316L                          | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 7       | U-PICA-40+        | Pressure, CTL       | Ammonium carbamate vapours | 0-1.5 Kg/cm <sup>2</sup>       | 0-40 C/1.0 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 8       | U-PIC-503 A/B     | Pressure, CTL       | 7 K STEAM MAIN             | 0-20 Kg/cm <sup>2</sup>        | 0-200 C/7 Kg/cm <sup>2</sup>   | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 9       | U-PIC-504 A/B     | Pressure, CTL       | 4 K STEAM MAIN             | 0-20 Kg/cm <sup>2</sup>        | 0-200 C/4 Kg/cm <sup>2</sup>   | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 10      | U-PIC-505 A/B     | Pressure, CTL       | 12 K STEAM MAIN            | 0-20 Kg/cm <sup>2</sup>        | 0-200 C/12 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 11      | U-PIA-506         | Pressure, Logic     | Inst. Air                  | 0-10 Kg/cm <sup>2</sup>        | 0-40 C/7 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 3    |         |
| 12      | U-PIA-403         | Pressure, Logic     | Ammonia Gas                | 0-30 Kg/cm <sup>2</sup>        | 0-40 C/0.5 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 13      | U-PTS-1201 A-D    | Pressure, Logic     | Lube oil                   | 0-14 Kg/cm <sup>2</sup>        | 0-45 C/7 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 12   |         |
| 14      | U-PIC-1052        | Pressure, CTL       | CO <sub>2</sub> Gas        | 0-50 Kg/cm <sup>2</sup>        | 0-20 C/24 Kg/cm <sup>2</sup>   | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 15      | PT-1058-60        | Pressure, Logic     | Ext. Steam Pt. (GB-101)    | 0-20 Kg/cm <sup>2</sup>        | 0-280 C/12 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |
| 16      | PIA-1062          | Pressure, Logic     | Exh. Hood Pt. (GB-101)     | (-11.0-+11) Kg/cm <sup>2</sup> | 0-160 C/0.6 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 2    |         |

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## PT SPECIFICATIONS DETAIL

## PANIPAT UNIT

| Sl. No. | Tag No.                  | Application         | Service                    | Calibration Range         | Process Temp. / Pressure       | Diaphragm material | Body & all-wetted parts material | Manifold Type | Rating     | Process Connections | Qty. | Remarks |
|---------|--------------------------|---------------------|----------------------------|---------------------------|--------------------------------|--------------------|----------------------------------|---------------|------------|---------------------|------|---------|
| 17      | PT-1077                  | Pressure Indication | Wheel Chamber Pr. (3B-101) | 0 - 60 Kg/cm <sup>2</sup> | 0-370°C/40 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 18      | PT-1083                  | Pressure Indication | L.O. Pr. 9 K Header        | 0 - 16 Kg/cm <sup>2</sup> | 0-45°C/9 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 3    |         |
| 19      | PT-1084                  | Pressure Indication | L.O. Pr. 2.5 K Header      | 0 - 16 Kg/cm <sup>2</sup> | 0-45°C/2.5 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 3    |         |
| 20      | PT-1085                  | Pressure Indication | Control / Trip Oil         | 0 - 16 Kg/cm <sup>2</sup> | 0-45°C/9 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 3    |         |
| 21      | PT-1023                  | Pressure Indication | 1st Stage Suction (3B-102) | 0 - 50 Kg/cm <sup>2</sup> | 0-42°C/24 Kg/cm <sup>2</sup>   | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 22      | PT-1024-26               | Pressure Indication | Lube Oil Pr                | 0 - 6 Kg/cm <sup>2</sup>  | 0-60°C/4 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 3    |         |
| 23      | PT-1029                  | Pressure Indication | Final Stage Disch. of KOBE | 0-400 Kg/cm <sup>2</sup>  | 0-150°C/260 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 24      | PT-1031                  | Pressure Indication | Cooling wrt pr. of KOBE    | 0-10 Kg/cm <sup>2</sup>   | 0-50°C/4 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 25      | PA-1303A&B               | Pressure Indication | Lube oil                   | 0 - 6 Kg/cm <sup>2</sup>  | 0-42°C/4 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 6    |         |
| 26      | U-GA-105A/B Dis. Pr. Low | Pressure Indication | Stream Condensate          | 0-10 Kg/cm <sup>2</sup>   | 0-135°C/5.0 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 27      | U-PA-1401                | Pressure Indication | Air                        | 0 - 35 Kg/cm <sup>2</sup> | 0-100°C/24 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
| 28      | U-PA-1402                | Pressure Indication | Lube oil                   | 0 - 3 Kg/cm <sup>2</sup>  | 0-45°C/2 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 3    |         |
| 29      | NEEM OIL DISL. PRESSURE  | Pressure Indication | Neem Oil                   | 0-10 Kg/cm <sup>2</sup>   | 0-60°C/2.5 Kg/cm <sup>2</sup>  | SS 316             | SS 316                           | See Note-1    | See Note-2 | 1/2"NPT(F)          | 1    |         |
|         |                          |                     |                            |                           |                                |                    |                                  |               |            | TOTAL               | 68   |         |

Note :-

1. Block and Bleed type, 2 Valve, 1/2" NPT F & O/L by NPT M
2. 1.5 times of Max pr. Range

Handwritten signatures and initials in blue ink, including 'Raj', 'Raj', and 'Raj'.



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# I. SPECIFICATIONS DETAIL

## PANIPATUNIT

| Sr. No. | Tag No.       | Application | Service          | Calibration Range | Process Temp./Pressure | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating   | Process Connections | Qty. | Remarks |
|---------|---------------|-------------|------------------|-------------------|------------------------|--------------------|----------------------------------|---------------|----------|---------------------|------|---------|
| 1       | CO2 disc flow | Flow        | CO2 Gas          | 0 - 6276 mm H2O   | 0-32 C, 30 Kg/cm2      | SS 316             | SS 316                           | 3 way T-type  | 300 lbs  | 1/2" NPT (F)        | 1    |         |
| 2       | U-FIC-102     | Flow        | Liquid Ammonia   | 0-2500 MM WC      | 37 C, 255 Kg/cm2       | Hastelloy C        | SS 316L                          | 3 way T-type  | 6000 lbs | 1/2" NPT (F)        | 1    |         |
| 3       | U-FIC-104     | Flow        | Steam condensate | 0 - 2500 mm H2O   | 0-40 C, 35Kg/cm2       | SS 316             | SS 316                           | 3 way T-type  | 600 lbs  | 3/4" NPT (F)        | 2    |         |
| 4       | U-FIS-501     | Flow        | Steam            | 0 - 6050 mm H2O   | 0-370 C, 40 Kg/cm2     | SS 316             | SS 316                           | 3 way T-type  | 600 lbs  | 1/2" NPT (F)        | 1    |         |
| 5       | U-FI-502      | Flow        | Steam condensate | 0 - 2250 mm H2O   | 0-70 C, 6 Kg/cm2       | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 6       | U-FISA-510    | Flow        | cooling water    | 0 - 1250 mm H2O   | 0-35 C, 5 Kg/cm2       | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 7       | U-FIS-511     | Flow        | cooling water    | 0 - 2768 mm H2O   | 0-35 C, 3 Kg/cm2       | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 8       | U-FICA-1051   | Flow        | CO2 Gas          | 0 - 3000 mm H2O   | 0-42 C, 30 Kg/cm2      | SS 316             | SS 316                           | 3 way T-type  | 300 lbs  | 1/2" NPT (F)        | 2    |         |
| 9       | U-FA-106      | Flow        | cooling water    | 0 - 4000 mm H2O   | 0-35 C, 4 Kg/cm2       | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 10      | U-FA-107      | Flow        | cooling water    | 0 - 2500 mm H2O   | 0-35 C, 4 Kg/cm2       | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 11      | FI-203        | Flow        | CO2 to LPD       | 0-2500 mm H2O     | 0-42 C, 30             | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 12      | FI-207        | Flow        | STEAM (To cryst) | 0-2500            | 0-200 C, 12            | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |
| 13      | FI-406        | Flow        | AIR (GB-401)     | 0-500mm H2O       | 0-31.4 C, atmospheric  | SS 316             | SS 316                           | 3 way T-type  | 150 lbs  | 1/2" NPT (F)        | 1    |         |

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PT SPECIFICATIONS DETAIL  
PANIPAT UNIT

| Sl. No. | Tag No.        | Application | Service             | Carburation Range | Process Temp. / Pressure | Drainage material | Body & all welded parts material | Manifold Type | Rating  | Process Connections | Qty. |
|---------|----------------|-------------|---------------------|-------------------|--------------------------|-------------------|----------------------------------|---------------|---------|---------------------|------|
| 14      | PIA-503        | Flow        | Sim Cond. To CW pit | 0-2500 mm H2O     | 0-68.5 C, 6 Kg/cm2       | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 15      | Inst. Air flow | Flow        | Inst. Air           | 0-125 mm H2O      | 0-47 C, 7 Kg/cm2         | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 16      | U-EA-210       | Level       | Hot water           | 0-2000 mm H2O     | 0-70 C, 0 Kg/cm2         | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 17      | U-LIC-501      | Level       | Steam condensate    | 0-3000 mm H2O     | 0-70 C, 0 Kg/cm2         | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 2    |
| 18      | LIC-A-302      | Level       | Steam condensate    | 0-300 mm H2O      | 0-50 C, 0 Kg/cm2         | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 19      | L1-303         | Level       | Effluent            | 0-300 mm H2O      | 0-50 C, 0 Kg/cm2         | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 20      | L1-E1P         | Level       | Effluent            | 0-2541 mm H2O     | 0-50 C, 0 Kg/cm2         | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 2    |
| 21      | U-PIA-302      | Pressure    | Hot air             | 0-150 mm H2O      | 0-123 C, 50 mm H2O       | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 22      | U-PIA-303      | Pressure    | Hot air             | -50 - 50 mm H2O   | 0-120 C, 0 mm H2O        | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 23      | U-PIA-304      | Pressure    | Hot air             | -400-50 mm H2O    | 0-65 C, -150 MM H2O      | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 24      | U-PIA-305      | Pressure    | Hot air             | -1000-0 mm H2O    | 0-65 C, -500 mm H2O      | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |
| 25      | Neem oil LT    | Level       | Neem Oil            | 0-3000 mmwc       | 45-65 C, -3000 mm H2O    | SS 316            | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |

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**SPECIFICATIONS DETAIL**

**PANIPAT UNIT**

| Sr. No. | Tag No.          | Application | Service    | Calibration Range | Process Temp. / Pressure        | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating  | Process Connections | Qty. | Remarks |
|---------|------------------|-------------|------------|-------------------|---------------------------------|--------------------|----------------------------------|---------------|---------|---------------------|------|---------|
| 26      | Melter cond Flow | Flow        | Condensate | 0-5000 mmwc       | 140-155 C, 7 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 4    |         |
| 27      | CFD WASH TANK    | Level       | CFD        | 0-2500            | 0-50°C, 0 Kg/cm <sup>2</sup>    | SS 316             | SS 316                           | 3 way T-type  | 150 lbs | 1/2" NPT (F)        | 1    |         |
|         |                  |             |            |                   |                                 |                    |                                  |               |         | TOTAL               | 5    | 34      |

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PDT SPECIFICATIONS DETAIL

PANIPAT UNIT

| Sr. No. | Tag No.                | Application    | Service        | Calibration Range        | Process Temp. (Pressure)      | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating  | Process Connections | Qty. | Remarks |
|---------|------------------------|----------------|----------------|--------------------------|-------------------------------|--------------------|----------------------------------|---------------|---------|---------------------|------|---------|
| 1       | U-PDT-1051             | Pressure Diff. | Lube oil       | 0 to 2Kg/cm <sup>2</sup> | 0-42 C, 16 Kg/cm <sup>2</sup> | SS 316             | SS 316                           | 3 way T-type  | 150 LBS | 1/2"NPT(F)          | 1    |         |
| 2       | U-PDS-1301 A&B         | Pressure Diff. | Seal Water Pt. | 0 to 5Kg/cm <sup>2</sup> | 40, 30 Kg/cm <sup>2</sup>     | SS 316             | SS 316                           | 3 way T-type  | 600 LBS | 1/2"NPT(F)          | 1    |         |
| 3       | U-PDS-1302 A&B         | Pressure Diff. | Seal Water Pt. | 0 to 5Kg/cm <sup>2</sup> | 40, 30 Kg/cm <sup>2</sup>     | SS 316             | SS 316                           | 3 way T-type  | 600 LBS | 1/2"NPT(F)          | 1    |         |
| 4       | Kobe filter DP         | Pressure Diff. | L.O.filter     | 0 to 5Kg/cm <sup>2</sup> | 40, 10 Kg/cm <sup>2</sup>     | SS 316             | SS 316                           | 3 way T-type  | 150 LBS | 1/2"NPT(F)          | 1    |         |
| 5       | GB-101 micro filter DP | Pressure Diff. | L.O.filter     | 0 to 5Kg/cm <sup>2</sup> | 40, 10 Kg/cm <sup>2</sup>     | SS 316             | SS 316                           | 3 way T-type  | 150 LBS | 1/2"NPT(F)          | 1    |         |
|         |                        |                |                |                          |                               |                    |                                  |               |         | TOTAL               | 5    |         |

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PT SPECIFICATIONS DETAIL  
BATHINDA UNIT

| Sl. No. | Tag No.     | Application | Service  | Calibration Range | Process Temp./Pressure | Diaphragm material | Body & all welded parts material | Manifold Type | Rating                 | Process Connections | Qty. | Remarks |
|---------|-------------|-------------|----------|-------------------|------------------------|--------------------|----------------------------------|---------------|------------------------|---------------------|------|---------|
| 15      | U-PTS-1054  |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |
| 16      | U-PTS-1055  |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 17      | U-PTS-1056  |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 18      | U-PTS-1061  |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |
| 19      | U-PIA-1021  |             | CO2 Gas  | 0 -50 Kg/cm2      | 0-42°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |
| 20      | U-PTS-1024  |             | Lube oil | 0 -6 Kg/cm2       | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |
| 21      | U-PTS-1201A |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 3    |         |
| 22      | U-PTS-1201B |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 3    |         |
| 23      | U-PTS-1201C |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 3    |         |
| 24      | U-PTS-1201D |             | Lube oil | 0 -16 Kg/cm2      | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 3    |         |
| 25      | U-PTS-1301A |             | Lube oil | 0 -6 Kg/cm2       | 0-42°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 3    |         |
| 26      | U-PTS-1301B |             | Lube oil | 0 -6 Kg/cm2       | 0-42°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 3    |         |
| 27      | U-PTS-1401  |             | Air      | 0 -35 Kg/cm2      | 0-100°C                | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |
| 28      | U-PTS-1402  |             | Lube oil | 0 -6 Kg/cm2       | 0-45°C                 | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |

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## PI SPECIFICATIONS DETAIL

## BATHINDA UNIT

| Sr. No. | Tag No.                   | Application | Service          | Calibration Range      | Process Temp. / Pressure | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating                 | Process Connections | Qty. | Remarks |
|---------|---------------------------|-------------|------------------|------------------------|--------------------------|--------------------|----------------------------------|---------------|------------------------|---------------------|------|---------|
| 29      | U-PIA-302                 |             | Hot Air          | 0 - 150mm Wg           | 0-122°C                  | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 30      | U-GA-105A/B<br>Disch. Pt. |             | Steam Condensate | 0 - 10 Kg/cm2          | 0-155°C                  | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 2    |         |
| 31      | U-PIA-303                 |             | Hot air          | Minus 50 to 50mm H2O.  | 0-120°C                  | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 32      | U-PIA-304                 |             | Hot air          | Minus 400 to 50mm H2O. | 0-65°C                   | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 33      | U-PIA-305                 |             | Hot air          | Minus 1000 to 0mm H2O. | 0-65°C                   | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 34      | PR-1027                   |             | CO2 Gas          | 0-400KG/CM2            | 0-120°C                  | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 35      | PR-1028                   |             | CO2 Gas          | 0-400KG/CM2            | 0-120°C                  | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 36      | PR-1029                   |             | CO2 Gas          | 0-400KG/CM2            | 0-120°C                  | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |
| 37      | U-PI-402                  |             | CARBAMATE        | 0 - 4 kg/cm2           | 0-50°C                   | SS 316L            | SS 316L                          | See Note      | 150 percent of the URL | 1/2" NPT(F)         | 1    |         |

Total: 64 No.

## Note :-

- SS316L- 3 way valve manifold
- Accuracy of the transmitter shall be 0.075% of span or better with 1: 30 rangeability to reduce the inventory. Accuracy shall remain constant throughout the range

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DPT SPECIFICATIONS DETAIL

BATHINDA UNIT

| Sr. No. | Tag No.    | Application | Service             | Calibration Range             | Process Temp./Pressure        | Diaphragm material | Body & all wetted parts material | Manifold Type | Rating   | Process Connections | Qty. | Remarks |
|---------|------------|-------------|---------------------|-------------------------------|-------------------------------|--------------------|----------------------------------|---------------|----------|---------------------|------|---------|
| 1       | U-FIC-104  |             | Steam condensate    | 0 to 2500 mm H <sub>2</sub> O | 0-40 C, 35kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | See Note      | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 2       | U-FA-106   |             | cooling water       | 0 to 4000 mm H <sub>2</sub> O | 0-35 C, 4 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 2    |         |
| 3       | U-FA-107   |             | cooling water       | 0 to 2500 mm H <sub>2</sub> O | 0-35 C, 4 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 2    |         |
| 4       | U-FA-108   |             | cooling water       | 0 to 5000 mm H <sub>2</sub> O | 0-35 C, 4 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 5       | U-FI-203   |             | CO <sub>2</sub> Gas | 0 to 2500 mm H <sub>2</sub> O | 0-32 C, 30 Kg/cm <sup>2</sup> | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 6       | U-FI-102   |             | Ammonia             | 0 to 2500 mm H <sub>2</sub> O | 0-37 C, 250kg/cm <sup>2</sup> | SS 316L            | SS 316L                          | -do-          | 6000 PSI | 1/2" NPT(F)         | 2    |         |
| 7       | U-FI-101   |             | CO <sub>2</sub> Gas | 0 to 1850 mm H <sub>2</sub> O | 0-20 C, 28kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 2    |         |
| 8       | U-LT-204   |             | steam condensate    | 0 to 500 mm H <sub>2</sub> O  | 0-183 C, 12kg/cm <sup>2</sup> | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 9       | U-LT-208   |             | steam condensate    | 0 to 500 mm H <sub>2</sub> O  | 0-183 C, 12kg/cm <sup>2</sup> | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 10      | U-LT-209   |             | steam condensate    | 0 to 500 mm H <sub>2</sub> O  | 0-158 C, 7kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 11      | U-LT-101   |             | steam condensate    | 0 to 500 mm H <sub>2</sub> O  | 0-158 C, 4kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 12      | U-FISA-510 |             | cooling water       | 0 to 1250 mm H <sub>2</sub> O | 0-35 C, 5 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 13      | U-FIS-511  |             | cooling water       | 0 to 2768 mm H <sub>2</sub> O | 0-35 C, 3 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |
| 14      | U-LIC-501  |             | Steam condensate    | 0 to 3000 mm H <sub>2</sub> O | 0-70 C, 0 Kg/cm <sup>2</sup>  | SS 316L            | SS 316L                          | -do-          | 1500PSI  | 1/2" NPT(F)         | 1    |         |



**DPT SPECIFICATIONS DETAIL**

**BATHINDA UNIT**

| Sr. No. | Tag No.      | Application | Service | Calibration Range | Process Temp. / Pressure | Diaphragm material | Body & all wetted parts material | Mainfold Type | Rating  | Process Connections | Qty | Remarks |
|---------|--------------|-------------|---------|-------------------|--------------------------|--------------------|----------------------------------|---------------|---------|---------------------|-----|---------|
| 15      | U-PIC/A-1051 |             | CO2 Gas | 0 to 3000 mm H2O  | 0-42°C, 30 Kg/cm2        | SS 316L            | SS 316L                          | -40-          | 1500PSI | 1/2" NPT(F)         | 2   |         |

Note :-

- SS316L- 5 way valve manifold
- Accuracy of the transmitter shall be 0.075% of span or better with 1-30 rangeability to reduce the inventory. Accuracy shall remain constant throughout the range

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**PDT SPECIFICATIONS DETAIL**

**BATHINDA UNIT**

| Sr No. | Tag No.     | Application | Service | Calibration Range | Process Temp./Pressure | Diaphragm material | Body & all wetted parts material | Rangeability | Manifold Type               | Rating   | Process Connections | Qty | Remarks |
|--------|-------------|-------------|---------|-------------------|------------------------|--------------------|----------------------------------|--------------|-----------------------------|----------|---------------------|-----|---------|
| 1      | U-PDT-1301A |             | WATER   | 0 to 5kg/cm2      | 0-45°C                 | SS316L             | SS316L                           | 1:100        | SS316L 5 way valve manifold | 6000 LBS | 1/2" NPT(F)         | 1   |         |
| 2      | U-PDT-1301B |             | WATER   | 0 to 5kg/cm2      | 0-45°C                 | SS316L             | SS316L                           | 1:100        | SS316L 5 way valve manifold | 6000 LBS | 1/2" NPT(F)         | 1   |         |

• Accuracy of the transmitter shall be 0.075% of span or better with 1:30 range ability to reduce the inventory. Accuracy shall remain constant throughout the range.

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