

TENDER DOCUMENT

Design, Supply and Labour job for Installation, Testing and Commissioning of the 12 TPD Mineral Mixture Plant for Cattle Feed Plant at Ambedkar Nagar

IFB Ref: NDS/CF/01/ Mineral Mixture/2526/Jan/01

Issued by

NDDB Dairy Services

POINTS BIDDERS SHOULD BEAR IN MIND

- 1) BIDS CONTAINING DEVIATIONS FROM BIDDING DOCUMENT TERMS AND OTHER REQUIREMENTS MAY BE REJECTED.
- 2) BIDS UPLOADED WITHOUT SUBMISSION OF EARNEST MONEY DEPOSIT **(if applicable)** SHALL BE SUMMARILY REJECTED.
- 3) BIDDERS SHOULD FURNISH THEIR COMPLETE ADDRESS FOR THE PURPOSE OF FURTHER CORRESPONDENCE PERTAINING TO BIDDING DOCUMENT.
- 4) NEGLIGENCE OF THE BIDDER IN PREPARING TENDER BID CONFERS NO RIGHT TO WITHDRAW THE BID AFTER IT WAS OPENED.
- 5) THE BID, ALONGWITH ENCLOSURES SHOULD BE IN ENGLISH ONLY.
- 6) THE BIDDING DOCUMENTS SHALL BE GOVERNED AND INTERPRETED ACCORDING TO THE LAWS OF THE UNION OF INDIA.
- 7) NDDDB Dairy Services RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS WITHOUT ANY EXPLANATION TO BIDDERS.

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CHECK LIST

- | | | |
|-----------|--|--------|
| 1. | Have you submitted the original EMD to NCDFI on or before the date & time mentioned in the bid document? | Yes/No |
| 2. | Have you quoted Bid prices in terms of clause 14.1 Section-III? | Yes/No |
| 3. | Have you uploaded the Form of Bid? | Yes/No |
| 4. | Have you uploaded the duly digitally signed/signed documents completed in all respect? | Yes/No |
| 5. | Have you noted the Service Period mentioned in the bid (Section-I)? | Yes/No |
| 6. | Have you kept your offer valid for 120 days? | Yes/No |
| 7. | Have you furnished copies of your PAN, GST Reg. No., PF Registration No. etc. (as per statutory requirement of above services) | Yes/No |
| 8. | Have you uploaded the Statements of Deviations (Preferably Nil) (Section VII Part A&B)? | Yes/No |

Signature & Seal of the Bidder

(PLEASE FILL UP THE ABOVE AND UPLOAD THE SAME WITH THE TECHNICAL BID)

Section 1 Invitation of Bids

NDDB Dairy Services

Address:

**NDDB House, Safdarjung Enclave, New Delhi, Southwest Delhi, Delhi,
110029**

011-4988300/49883088/Mob7092922421

Web: <https://www.nddbdairyservices.com/>

1.1 **Tender Reference: NDS/CF/01/ Mineral Mixture/2526/Jan/01**

NDDB Dairy Services (NDS), a subsidiary of the National Dairy Development Board (NDDB), operates the Cattle Feed Plant at Ambedkaranagar, Uttar Pradesh. The plant is engaged in the production and supply of quality cattle feed for dairy development projects and farmers. It follows prescribed quality standards to ensure timely availability of nutritionally balanced feed for improving livestock productivity in the region:

Bid Ref:	NDS/CF/01/ Mineral Mixture/2526/Jan/01
Description	Design, Supply and Labour job for Installation, Testing and Commissioning of the 12 TPD Mineral Mixture Plant for Cattle Feed Plant at Ambedkar Nagar
Estimated Cost	Rs. 96.00 Lakhs (including GST).
EMD	Rs. 96,000 . (Through NEFT/RTGS in the account of NCDFI) Members are requested to deposit the Earnest Money Deposit (EMD) directly into their respective Escrow accounts. After the successful completion of the contract, NCDFI will deduct TC (Transaction charges) at 0.4 % (+ 18% GST) and TDS under section 194 (O) at 0.1 % of the Trade Value from the EMD/SD.
Sale of bid (Start date)	1 st January 2026
Pre-bid meeting	Date & Time: 9 th Jan 2026, 11:00 AM Venue: Virtual Mode Participation Request: Bidders must send their request to attend the pre-bid meeting by 15:00 hrs on the working day prior to the meeting date. <ul style="list-style-type: none">Email: samar.rehman@nddbdairyservices.comPhone: +91-8853491248
Sale of bid End Date	21.01.2026

Last Date & Time of Submission of bid	03:00 PM on 21.01.2026
Technical Bid Opening	03:30 PM on 21.01.2026
Delivery Period	Within 01 Months from the date of issuance of purchase order.
PO to be issued by	NDDDB Dairy Services
Delivery Location	Ambedkar Nagar.
Delivery Schedule	As per PO.
Tender Downloading Website	Website: https://events.ncdfiemarket.com/initiator/ Contact Person:-Parth-7043531188 Janvi-99786 03225
Evaluation of offer	Overall Basis

Section 2 Instructions to Bidder

2.1 The bidders must meet the following minimum qualifying criteria:

- a) The Bidder, in the same name and style, should be in business at least for last **five years** at time of bid opening. In case of change of name of bidder by merger / acquisition / change in status, the bidder may be eligible based on the documentary evidence.
- b) The Bidder should have valid registration under various Acts that may be applicable for the contract proposed. This shall include but not limited to Income Tax, Companies Act, GST, the building & other construction workers' welfare cess act, Employee State Insurance, Contract Labour, Provident fund etc.
- c) The Bidder's Financial Turnover in the same name and style in each of the last three financial years ending **31st March (i.e. FY 22-23, FY 23-24 & FY 24-25)** shall be not less than **60% of the estimated cost**.
- d) The bidder should have **positive net worth in last two financial years**.
- e) The bidder should have **cash profit in any two financial years out of the last five financial years**.
- f) The Bidder in the same name and style shall have successfully executed / completed contracts of similar nature of works (**“Design, Supply, Installation, testing & commissioning of any of the following:**

a. Cattle Feed, Bypass Feed Manufacturing or Mineral Mixture Plant of minimum 50 TPD capacity.

OR

b. Raw Material Storage Silo System of minimum 250 MT capacity.”)

during the last five years ending last day of the month previous to the month in which bid is opened, either of the following: -

- I) One Contract / Work of similar nature costing not less than 80% of estimated cost
- OR
- II) Two Contracts / Works of similar nature each costing not less than 50% of estimated cost
- OR
- III) Three Contracts / Works of similar nature each costing not less than 40% of estimated cost

Note:

For evaluation and comparison of bids, the purchaser may, at its discretion, ask the bidder for clarification on the bid. The shortfall information / documents shall be sought only in case of historical

documents which pre-existed at the time of tender opening and which have not under gone change since then.

So far as the submission of the documents is concerned with regard to qualification criteria, after submission of the tender, only related shortfall documents shall be asked for and considered. For example, if the bidder has submitted a supply order without its completion / performance certificate, the certificate can be asked for and considered. However, no new supply order shall be asked for and considered so as to qualify the bidder.

- a) In addition to the above, the following information/documents should also be **uploaded** along with the online bid by the bidder for evaluation/determination of their eligibility:
- i. Copy of the Income Tax Returns for three previous years for income tax purpose.
 - ii. Audited financials for last 3 financial years.
 - iii. Undertaking to be provided as asked in Section 11 of tender document.
- a) Even though the bidder's meet the specified criteria, it may be disqualified if it has:
- i. Made untrue or false declaration in the forms, statements and attachments submitted in proof of their qualification
 - ii. Poor documented record based on the feedback from other organizations/union from their own experience in the delivery, installation, performance, service and also in abandoning the works, not properly completing the contract, inordinate delays, or financial failure etc.
 - iii. If the bidder is overbooked beyond his capacity to execute the work as per required schedules.

2.2 Eligible Bidders

This invitation for Bids is open to all suppliers who have downloaded this bidding document in their name and meet the minimum eligibility criteria, if any, specified in this bidding document.

2.3 Bidding Document

The fee/cost for bidding document is NIL.

The Bidder shall bear all costs associated with the preparation and submission of its bid, and the NDDB Dairy Services hereinafter referred to as "Purchaser", will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. Interested eligible bidders may obtain further information from Manager (Purchaser) Sh. Samar Rehman, Address **NDDB House, Safdarjung Enclave, New Delhi, Southwest Delhi, Delhi, 110029 011-4988300/49883088/**

i. Downloading the Document

- i. The bid documents will be available in the website at <https://www.ncdfiemarket.com/> and can be downloaded and used as tender documents for uploading the offer.
- ii. It is hereby brought to the notice of all bidders that if any change/additions/ deletions/alterations are found to be made by them in the tender and the same is subsequently noticed at any stage, even after award of the contract, the bidders are liable for all consequences thereof and NDDB Dairy Services (NDS) shall be free to take suitable action as deemed necessary.

2.4 Content of Bidding Documents

- i. The services required, bidding procedures and contract terms are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding Documents include:
 - (a) Instructions to Bidder;
 - (b) General Terms & Conditions
 - (c) Technical Requirement and Tech Specs
 - (d) Delivery Location and Schedule
 - (e) Price Schedule;
 - (f) Form of Bid;
 - (g) Deviation statement
 - (h) Format of Bank Guarantee for performance security
 - (i) Format of Undertaking
- ii. The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be at the Bidder's risk and may result in the rejection of its bid.

2.5 Clarification of Bidding Documents

A prospective Bidder requiring any clarification of the Bidding Documents may notify the NDS in writing/fax/telex/email at the NDSs mailing address indicated in the Invitation for Bids. The Purchaser will respond in writing to any request for clarification of the Bidding Documents, which it receives not later than 7 days prior to the deadline for the submission of bids prescribed by the Purchaser. If required, written copies of the Purchaser's response (including an explanation of the query but without identifying the source of inquiry) will be uploaded in the websites mentioned.

2.6 Amendment of Bidding Documents

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

The amendment will be uploaded on NDS/NCDFI website. Before submission of the bid, the bidder should check the NDS/NCDFI website for any Corrigendum/additional information on the bidding document, if any.

The amendment will be also uploaded on NCDFI's website. Before submission of the bid, the bidder should check the NCDFI's website for any Corrigendum/additional information on the bidding document, if any

However, non-information in changes/amendments put on website as Corrigendum to the prospective bidders shall not bind the NDS to extend the deadline for the submission of the bids and non-compliance to such Corrigendum by the bidder shall result to non-responsiveness of the bid leading to rejection.

2.7 Preparation of Bid.

The Bid prepared by the Bidder and all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the English language

2.8 Documents comprising the bid

The Bid prepared by the Bidder shall comprise the following documents:

- a. A complete description of Services the Bidder to provide and a price schedule completed in accordance with clause Nos 2.12 and
- b. Earnest Money Deposit in accordance with section 2.14
- c. Documentary evidence establishing bidder's eligibility and qualifications in accordance with Clause No. 2.1 and
- d. Documentary evidence establishing eligibility and conformity of services in accordance with Clause No. 2.1

- e. A price schedule completed in all respect.
- f. Even though the applicants meet the above criteria, they are subject to be disqualified if they have:
 - i. Made untrue or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and or,
 - ii. Poor documented record based on the feedback from other organizations from their own experience in the delivery, installation, performance, service and also in abandoning the works, not properly completing the contract, inordinate delays, or financial failure etc.
 - iii. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Bidders capabilities and capacity to execute the contract satisfactorily before deciding on award.
 - iv. Any exceptions the Bidder wishes to take in any aspect of the bidding document or payment schedule including a justification for the exception in the format furnished in Section 7

2.9 Bid Form

- a. The Bidder shall complete the Bid Form furnished in the Bidding Documents and upload the same on the e-portal submit the same along with technical bid.
- b. All the required document duly signed/digitally signed should be uploaded on or before the specified date and time at NCDFI website.

2.10 Bid Submission:

- a) The Bidder shall fill up the Technical and Price Bid at NCDFI Portal mentioning the final prices of the services under the Contract. Bidders must submit a bid for the full quantity specified under Scope of work, failing which, such bids will not be considered for evaluation and comparison and will not be considered for award.

2.11 Bid Currencies

For a service covered in this Bidding Document, prices shall be quoted in Indian Rupees only.

2.12 Documents Establishing Bidders' Eligibility and Qualifications

- a. Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

- b. The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid is eligible to bid as defined under Section 2.
- c. The documentary evidence of the Bidder's qualifications to perform the Contract if its bid is accepted, shall establish to the Purchaser's satisfaction:
- d. That the Bidder has the financial and technical capability necessary to perform the Contract and meet the minimum qualifying criteria specified at Section 2. To this end, all bids submitted shall include the following information:
- e. Copies of original documents defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership etc.
- f. Details of experience and past performance of the bidder on the contract's similar nature within the last 5 years and details of current contracts in hand and other commitments.
- g. Bidders shall invariably furnish documentary evidence (Client's certificate) in support of the satisfactory completion of the services provided.
- h. Qualification and experience of key personnel for successful execution of the contract;
- i. Reports on financial standing of the Bidder such as profit and loss statements, balance sheets and auditor's report of the past three years etc.;
- j. Information regarding any current litigation in which the Bidder is involved.

Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have record of poor performance such as abandoning the work, not properly completing the contract etc.

2.13 Documents Establishing Eligibility and Conformity to Bidding documents

- a. Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the Bidding Documents for all services, which the Bidder proposes to provide under the Contract.

- b. The documentary evidence of the services conformity to the Bidding Documents may be in the form of literature, drawing and data, and shall furnish:
- c. A statement of deviations and exceptions to the scope of work in the format furnished in the bidding document (Section 8 (A)- Technical Deviation Statement Form and commercial Deviation Statement Form).

2.14 Earnest Money Deposit (EMD)

The payment should be made on or before **12:00 PM** on the date of submission of bids. Tenderer must submit an EMD of Rs. 96,000 in the format of e-payment irrespective of the items quoted i.e. schedule wise EMD amount as mentioned in the document will not be considered. Without EMD, the tender will be summarily rejected.

- a) Online E-Payment shall be made through RTGS as per the details given below. However, online payment details i.e. UTR no and proof of current money transaction details are to be enclosed with our technical bid/tender:
- b) Members are requested to deposit the Earnest Money Deposit (EMD) directly into their respective Escrow accounts. The Escrow account details can be accessed through the registration portal (Link: <https://registration.ncdfiemarket.com/>).**
- ii) Payment of Earnest Money by cheque, T.D.R and F.D.R. will not be accepted.

iii) Transaction Fees and TDS:

- a) As the bidding is processed through the NCDFI Portal, the awardee vendor must pay:
 - i. **Transaction Fee - 0.40%** of the contract value (+ applicable GST).
 - ii. **TDS u/s 194/O - 0.10%** of the contract value.
- b) Payment must be made within two working days of contract award.
- c) Any adjustments in transaction fees and TDS based on the final contract value must be paid promptly or will be adjusted against the EMD amount deposited.

For EMD payment made (RTGS/NEFT), the bidder is requested to send the communication by 12.30 PM on the date of submission of bids in e-mail to etenders@ncdfiemarket.com.

2.15 The EMD may be forfeited:

- a) If a bidder withdraws or modifies its bid during the period of bid validity
- OR**
- b) In the case of the successful bidder, if the bidder fails to sign the Contract (i.e., return the signed copy of duplicate Purchase Order, and furnish Performance Security, if asked for)

Unsuccessful bidder's bid security will be discharged / returned as promptly as possible but not later than 30 days after the expiration of the period of the bid validity of 120 days from the date of bid opening. The successful Bidder's EMD will be discharged upon the Bidders executing the Contract i.e., return the signed copy of duplicate Purchase Order, and furnish the Performance Security, if asked for.

- c) Pursuant to Clause No.2.14 the Bidder shall furnish, as part of its bid, EMD as specified in the Schedule of Requirements.
- d) The EMD security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture.
- e) The EMD shall be denominated in Indian Rupees only, and shall be in one of the following forms:
- f) Any bid not accompanied with EMD will be rejected by the Purchaser as non-responsive.
- g) Unsuccessful Bidder's EMD will be discharged/returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the Purchaser, pursuant to Clause 2.14.
- h) The successful Bidder's EMD will be discharged upon the Bidders executing the Contract and furnishing the performance security.
- i) The EMD may be forfeited: If a Bidder withdraws or modifies its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- j) In the case of these successful Bidder, if the Bidder fails:
 - a. To sign the undertaking and contract in accordance with Clause 2.31;
 - And
 - b. To furnish performance security in accordance with Clause 2.36.

2.16 Period of Validity of Bids

- a. Bids shall remain valid for 120 days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- b. In exceptional circumstance, the Purchaser may prior to the expiry of initial validity period solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by cable or telex or fax). The EMD provided under Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its EMD. A Bidder granting the request will not be required nor permitted to modify its bid.

2.17 Format and Signing of Bid

- a. The uploaded bid shall be digitally signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The latter

authorization shall be indicated by written power-of-attorney accompanying the Bid.

- b. Any correction made in the uploaded bid document should be signed by authorized signatory.

2.18 Submission of bid

- a. The bidders, who downloaded the bidding documents, are eligible for submission of bids in their names only. **The complete bidding document downloaded has to be uploaded along with the bid** without any modifications/alternations, as a token of their acceptance towards enclosed scope of work, terms and conditions unconditionally.
- b. The technical Bid (Part I) and the commercial bid / price bid (Part II) has to be filled online at NCDFI e-tender portal.

2.19 Deadline for Submission of Bids

- a. Bids must be submitted NCDFI Portal-not later than the time specified for receipt of the bids in the Invitation for Bids (Section I). The **EMD (in original) should paid as stated** below, on or before the last date and time of receipt of bids.
- b. The Purchaser may, at its discretion, extend this deadline for the submission of bids by amending the Bidding Documents, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

2.20 Late receipt of EMD

Any EMD received by the Purchaser after the deadline for submission of bid prescribed by the Purchaser, the bid shall be rejected.

2.21 Modification and Withdrawal of Bids

- a. The Bidder cannot modify or withdraw its bid after the bid's submission.
- b. No bid can be modified subsequent to the deadline for submission of bids.
- c. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the forfeiture of Bidder's EMD.

2.22 Bid Opening and Evaluation

The NDS will open the Technical bids (of those bidders whose **Original EMD, in acceptable form**, have submitted on NCDFI porta on the time and date stated in the tender. Bidders can witness Virtual bid opening of bid.

Commercial bids will be opened electronically of only those bidders whose Technical Bid (Part-I) is found to be acceptable by NDS. Such bidders will be intimated regarding date of opening of Part II- Commercial Bid separately.

The NDS will examine the bids to determine whether they are complete, whether the requisite EMD have been furnished, whether the documents have been properly uploaded, and whether the bids are generally in order.

2.23 Preliminary Evaluation

The Purchaser will examine the technical bids to determine whether they are complete, whether required supporting documents have been furnished, and whether the bids are generally in order.

The Purchaser will also examine whether the bid is complete. If the prices of certain item are found as "0" ("ZERO") it will be presumed that the bidder has included the cost of these items against some other items of the price bid. The bidder shall furnish/upload the details of such inclusions separately.

If the Purchaser considers that with these omissions, the offered services is not functional, then the bid will be treated as incomplete and non-responsive.

Arithmetical errors – Not Applicable

Prior to the detailed evaluation, the Purchaser will determine the substantial responsive to the bidding documents. For purposes of these clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviations. A material deviation is one which affects in any substantial way the functionality, scope, quality or performance of the deliveries or which limits in any substantial way inconsistent with the bidding documents, the Purchaser's rights or the bidder's obligations under the contract and the rectifications of which deviations would affect unfairly the competitive position of other bidders presenting substantially responsive bids. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of the Bidder.

2.24 Evaluation and Comparison of Bids

- a. The Purchaser will evaluate and compare the bids previously determined to be substantially responsive, pursuant to Clause 2.23 No bid will be considered if the complete requirement covered under the scope of work is not included in the bid. The unit price quoted should be after considering the discount, if any.
- b. The evaluation and comparison of bids will be done on the basis of quoted prices exclusive of applicable taxes and duties as mentioned in price schedule.

2.25 Bid Prices

- a. The Bidder shall indicate on the Price Bid at NCDFI e-Portal the final unit prices (after considering discount, if any) of the goods it proposes to supply under the Contract. Bidders must submit a bid for the full quantity specified under technical specifications, failing which, such bids will not be considered for evaluation and comparison and will not be considered for award. The item wise quoted price should be exclusive of applicable GST.
- b. The item wise price of goods/services to be entered in the NCDFI e-portal shall be on FOR site basis inclusive of applicable GST, **but including the charges for packing and forwarding, transportation, transit insurance and all other local costs incidental to delivery of goods/services to their final destination**, storage cum erection insurance and safe custody at site.
- c. GST to be mentioned separately
- d. Please note that it is recommended for the supplier to indicate a single applicable GST rate, as in many cases items may be procured on a composite basis, and a uniform GST rate would apply.

It should also be noted that the price evaluation will be based on the total price inclusive of GST, irrespective of the GST rate quoted by the supplier. .

It is to be noted that, if applicable GST will be change by GOI, then same may be considered for the issuance of PO or Invoice.

2.26 Prices indicated on the Price Bid shall be entered in the following manner:

- a. The item wise price of goods to be supplied/installed and commissioned shall be on FOR site basis inclusive of applicable GST. The item wise price shall also include the charges for packing and forwarding, transportation, transit insurance and all other local costs incidental to delivery of the goods to their final destination, storage cum Erection insurance and safe custody at site.
- b. The Bidder's separation of price components in accordance with above will be solely for the purpose of facilitating the comparison of bids by the Purchaser and will not in any way limit the Purchaser's right to contract on any of the terms offered.

2.27 Fixed Price

Basic Price quoted by the Bidder shall be fixed during the bidder's performance of the Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation for such goods and services will be treated as non-responsive and rejected.

2.28 Price Break-up

Bidders shall furnish the price for the supply and for installation/commissioning along with detailed cost break-up (item wise), which will be applicable for progressive payments. Items and works for which no break-up price is furnished by the bidder will not be paid for by the Purchaser when supplied/executed and shall be deemed covered by the other break-up prices.

However, for evaluation purpose, prices quoted as indicated in Para 2.25 above only will be considered.

Notwithstanding anything stated elsewhere in the bidding documents, irrespective of mode of the contracting with the successful bidder, the successful bidder will be liable for the payment of Indian Income Tax, surcharge on Income Tax and any other Corporate Tax, turnover tax etc. if attracted under the provisions of the law. The Purchaser shall not bear any tax liability whatsoever irrespective of the mode of contracting

2.29 Contacting the Purchaser

- a. Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- b. Any effort by a Bidder to influence the Purchaser in the Purchaser's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid. On the severity of the action bidder may be blacklisted for a period of one year.

2.30 Post Qualification

- a. In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder selected as having submitted the lowest evaluated responsive bid is qualified to satisfactorily perform the Contract.
- b. The determination will consider the Bidder's financial, technical and servicing capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to Clause 2.13, as well as such other information as the Purchaser deems necessary and appropriate including details of experience and records of past performance.
- c. An affirmative determination will be a prerequisite for award of the Contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event; the Purchaser will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

2.31 Award of Contract

Purchaser will award the contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid provided further the bidder is determined to be qualified to perform the contract satisfactorily as per clause 28.

2.32 Purchasers Right to Vary Quantities at the Time of Award.

The Purchaser reserves the right to vary the quantities at the time of award of the contract, if the need arises in consultation with the successful bidder.

2.33 Purchaser's Right to Accept Any Bid and to Reject Any or All Bids

NDS does not bind itself to accept the lowest bid. NDS reserves the right to award the job either in part or full. NDS at its sole discretion and without assigning any reason thereof, also reserves the right to accept any/or reject any or all bids.

NDS also reserves the right to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the group NDS for the Purchaser's action.

2.34 Notification of Award

- a. The evaluation and rate discovery to done by Purchaser, PO will be issued NDDDB Dairy services
- b. Prior to expiration of the period of bid validity, the Purchaser will notify the successful Bidder in writing by registered letter/courier/by cable/telex/fax/e-

mail, to be confirmed in writing by registered letter/courier, that its bid has been accepted.

- c. The notification of award will constitute the formation of the Contract.
- d. Upon the successful Bidder's furnishing of performance security, the Purchaser will discharge the EMD of unsuccessful bidders.

2.35 Signing of Contract

- a. As the Purchaser notifies the successful Bidder that its bid has been accepted, the bidder is requested to submit the “Undertaking” as provided in the Bidding Document, incorporating all agreements between the parties.
- b. The “Undertaking” and “Acceptance copy of the contract” shall be returned within 15 days from the date of contract.

2.36 Performance Security

- a. Within 30 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the **performance BG (10% of total contract amount including GST)** in accordance with the Conditions of Contract, in the form Bank Guarantee/DD provided in the Bidding Documents or another form acceptable to the Purchaser. Bank guarantee issued only by Nationalized/Scheduled commercial Banks/Foreign banks having branches in India will be accepted.
- b. Failure of the successful Bidder to comply with the requirement of Clause 2.35 or Clause 2.36 shall constitute sufficient reason for Purchase for the annulment of the award and forfeiture of the EMD, in which event the Purchaser may make the award to the next lowest evaluated bidder or call for new bids.
- c. If the bid of the successful bidder is seriously unbalanced in relation to the Purchaser estimate of the real cost of the work to be performed under the contract, the Purchaser may require additional performance security to protect the Purchaser against financial loss in the event of subsequent default of the successful bidder under the contract. The value of the additional performance security shall be decided by the Purchaser based on mutual discussions with the successful bidder. The additional performance security shall be valid until the completion of contract or the Purchaser may decide as.

2.37 Address for Communication:
NDDB House,
Safdarjung Enclave, New Delhi, Delhi, 110029
011-4988300/49883088/Mob 7092922421
Contact No. 88534 91248 (Sh. Samar)

2.38 Bid Form

- a. The Bidder shall complete the Bid Form (Format given as Section 6) furnished in the Bidding Documents and provided the same along with technical bid.
- b. All the required document duly sealed & signed should be submitted/uploaded before the specified date and time at NCDFI Portal-

2.39 Place of Opening of bid : NCDFI website Portal (by Virtual Mode).

Section 3

Term & Conditions of the Contract

3.1 Definitions (Clause 1)

(a) The National Dairy Development Board as a pure agent is procuring the material on the behalf of the service recipient (owner/purchaser/principal).

(b) The Supplier is (Name of Supplier).

3.2 Country of Origin (Clause 3)

The place where the goods were mined, grown or produced from which the services are supplied.

3.3 Equivalency of Standards and Codes (Clause 4)

Wherever reference is made in the contract to the respective standards and codes in accordance with which goods and materials are to be furnished, and work is to be performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly set forth in the Contract. Where such standards and codes are national in character, or relate to a particular country or region, other authoritative standards which ensure an equal or higher quality than the standards and codes specified will be accepted subject to the Purchaser's prior review and written approval. Differences between the standards specified and the proposed alternative standards must be fully described in writing by the Supplier and submitted to the Purchaser at least 30 days prior to the date when the Supplier desires the Purchaser's approval. In the event the purchaser determines that such proposed deviations do not ensure equal or higher quality, the Supplier shall comply with the standards set forth in the documents.

3.4 Performance Security (Clause 7)

The Performance Security shall be in the amount of 10% of the Contract price.

Additional Performance Security, if deemed necessary, shall be submitted as mutually agreed by the Purchaser and the successful bidder at the time of acceptance of the contract/Purchase order.

3.5 Inspection and Tests (Clause 8)

The inspection of the Goods shall be carried out to check whether the Goods are in conformity with the technical specifications attached to the purchase order form and shall be in line with the inspection/test procedures laid down in the Schedule of Specifications and the Contract conditions.

Manufacturer must have suitable facilities at their works for carrying out various performance tests on the equipment. The bidder should clearly confirm that all the facilities exist for inspection and shall be made available to the inspecting Authority.

A load and functional tests as indicated in the specifications must be carried out at the manufacturer's works. Reliability of the equipment shall be demonstrated to the satisfaction of the appointed inspector or inspecting Agency.

Approved supplier's drawings shall not be departed from except as provided in the Bidding Document.

The Purchaser shall have the right at all reasonable times to inspect, at the Supplier's premises all Supplier's drawings of any part of the work.

The supplier shall provide, within the time stated in the contract or in the programme, drawings showing how the plant is to be designed and any other information required for -

- a) Preparing suitable foundations or other means of support.
- b) Providing suitable access on the site for the plant and any necessary equipment to the place where the plant is to be erected and
- c) Making necessary electrical connections from the panel board provided in the individual sections to the machines.

Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals together with drawings of the goods and equipment as built. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.

The manuals and drawings shall be in the ruling language (English) and in such form and numbers as stated in the contract.

Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawings have been supplied to the Purchaser.

The goods be accepted after inspection by the Purchaser, his representative or any inspection agency appointed by Purchaser and the costs for such Inspector/Agency shall be borne by the Purchaser.

3.6 Delivery and Documents (Clause 10)

Upon shipment/dispatch, the supplier shall notify to the purchaser by cable or telex the full details of dispatch including purchaser order no., description of the goods, quantity, mode of transport, place of loading, date of dispatch etc. The supplier will mail the following documents to the purchaser with a copy to the Insurance Company:

Original and five copies of:

- (i) The Supplier's invoice showing purchase order no. Goods description, quantity, unit price, total amount;
- (ii) Delivery note/case-wise detailed packing list identifying contents of each package/lorry receipt;
- (iii) Manufacturer's/Supplier's guarantee certificate;
- (iv) Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report;
- (v) Certificate of origin;
- (vi) Insurance policy;
- (vii) Excise gate pass/octroi receipts wherever applicable, duly sealed indicating payments made; and
- (viii) Any other document evidencing payment of statutory levies.
- (ix) The supplier's certificate certifying that the defects pointed out during inspection have been rectified.

Note: The nomenclature used for the item description in the invoice/s, packing list/s and delivery note/s etc. Should be identical to that used in the purchase order. The despatch particulars including name of transporter, LR no. and date should also be mentioned in the invoice/s.

3.7 Insurance (clause 11)

(a) The "marine/ transit" insurance to be taken by the supplier shall be in an amount equal to 110% of the FOR Destination value of the goods from "warehouse to warehouse" on "All Risks" basis including Strike, Natural calamities but exclusive of War Risk valid for a period not less than 3 months after the date of arrival of Goods at final destination.

(b) For installation and commissioning job, storage-cum-erection All risk insurance policy for an amount equal to 100% valid for a period not less than three months after installation, including one month for testing and commissioning shall be obtained by the supplier.

(c) Third party insurance: Before commencing the erection work the supplier without limiting his obligations and responsibilities, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property including that of the Owner/ NDDDB, or to any person including any employee of the Owner/ NDDDB.

Such insurance shall be for 10% of the value of the works with number of occurrence unlimited.

3.8 Incidental services (Clause 13)

The incidental services for supply, installation and commissioning contract, as follows shall be provided by the Supplier:

- a. Furnishing of tools required for assembly and maintenance of the supplied goods;
- b. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- c. On-site assembly and start-up of the supplied Goods;
- d. Conduct of training of the Purchaser's personnel (approx. For 4 man-weeks); at the Supplier's plant and/or on-site, in assembly, start-up operation, maintenance and/or repair of the supplied Goods.
- e. Furnishing of layout drawing etc. as specified in clause 3 of Special Conditions of Contract Part II.

3.9 Spare Parts (Clause 14)

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares such as gaskets, plugs, washers, belts, etc. Other spare parts and components shall be supplied as promptly as possible but in any case, within six months of placement of order.

3.10 Warranty/Guarantee (Clause 15)

The warranty/guarantee shall be as per provision under Clause 15 of General Conditions.

3.11 Payment (Clause 16)

Payment for design and supply component:

(a) 20% advance on supply value with interest @7.5% per annum shall be payable against bank guarantee of 110% of advance amount valid till scheduled date of delivery/ actual delivery of material (as per attached format).

(b) 70% of the contract price of the goods (against detailed break up cost to be furnished by the Supplier in advance and accepted by the Purchaser) on safe receipt of goods at site and after inspection and approval of the Purchaser.

(c) On final acceptance:

The balance 10% shall be paid on continuous satisfactory running of the complete plant/equipment for one month, on completion of other contracted services and acceptance by the purchaser's representative, within the scope of this contract.

Payment for labour charges for installation, testing and commissioning:

(b) 90% of the contract price for labour charges of installation and commissioning shall be paid on actual completion of installation/erection and after due inspection and approval by the purchaser (against detailed break up cost to be furnished by the Supplier in advance and accepted by the Purchaser).

(c) On final acceptance:

The balance 10% shall be paid on continuous satisfactory running of the complete plant/equipment for one month, on completion of other contracted services and accepted by the purchaser's representative, within the scope of this contract.

NOTE:

- (i) The interest rate applicable for advance will be 7.5% per annum (simple interest) on the outstanding advance amount. The advance shall be adjusted by recovery on pro-rata basis along with interest from the 1st supply/ RA bill onwards. The interest shall be calculated on the basis of advance adjusted from the date of cheque towards advance payment to the date of receipt of material at site, on actual number of days
- (ii) All bank guarantees should be issued by **Scheduled Public Sector Bank(s) or Scheduled Private Sector Bank(s) or Scheduled Foreign Bank(s) as notified by RBI** and shall be valid till completion period **plus 3 months claim period.**
- (iii) The successful bidder may raise running bills for supply as soon as the supply is completed as per schedule and bills for labour job shall be railed once in a month.
- (iv) The Purchase shall issue Material Handing Over Challan (MHOC) after safe receipt of equipment.

3.12 Resolution of Disputes (Clause 28)

In the event of any dispute in the interpretation of the terms of the order/contract or difference of opinion between the parties on any point in the order/contract arising out of or in connection with the agreement accepted order/contract or with regard to performance of any obligation hereunder by either party, the parties hereto shall use their best efforts to settle such disputes or difference of opinion amicably by mutual negotiations. In case no agreement is reached, either party may forthwith give to the other, a notice in writing of the existence of such question, dispute or difference of opinion and the same shall be referred to the adjudication of sole arbitrator to be appointed with mutual consent of both the parties.

The Arbitration proceedings shall be governed under the provisions of the Indian Arbitration and Conciliation Act, 1996 and the rules there under or any statutory modifications thereof for the time being in force. In the order/contract, the venue of such Arbitration shall be Anand, Gujarat and Courts at Anand alone shall have jurisdiction regarding any matter arising out of order/contract.

Performance under the Contract shall, if reasonably possible, continue during the Arbitration proceedings and payments due to the Supplier by the Purchaser shall not be withheld, unless they are the subjects of the Arbitration proceedings.

All awards for claims equivalent to Rupees thirty thousand or more shall be in writing and state the reasons for the amounts awarded.

3.13 Notices (Clause 31)

For the purpose of all the notices, the following shall be the address of the Purchaser and Supplier.

Purchaser: NDDDB Dairy Services, Delhi.

Supplier (To be filled in at the time of Contract signature.)

3.14 Packing and Marking

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to temperature, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packing, marking and documents within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract and any subsequent instructions given by the Purchaser

3.15 Transportation

Where the Supplier is required under the Contract to deliver the Goods FOR DESTINATION, as specified in the schedule of requirements. Transportation shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

Where the Supplier is required to effect delivery under any other terms, for example, by post or to another address in the source country, the Supplier shall be required to meet all transport and storage expenses until delivery.

In all the cases, transportation of the Goods up to the project site shall be the responsibility of the Bidder and the cost thereof shall be included/indicated in the contract price.

Where the Supplier is required under the Contract to deliver the Goods CIF, no further restriction shall be placed on the choice of the ocean carrier.

3.16 Subcontracts

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

3.17 Bank Guarantee:

Within 30 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance BG (10% of total contract amount) in accordance with the Conditions of Contract, in the Performance Security Form provided in the Bidding Documents or another form acceptable to the Purchaser. Bank guarantee issued only by Nationalized/Scheduled commercial Banks/Foreign banks having branches in India will be accepted.

- a. A bank guarantee issued by a Nationalized Indian Bank or a foreign bank having branches in India valid for 3 months (claim period) beyond the defect liability period/warranty period.

OR.

- b. Demand Draft issued by Nationalized Bank/ Scheduled Bank/ Foreign Bank having branches in India in favor of Purchaser payable at his location will be informed later on (awardee bidder)
- c. The Bank Guarantee will be discharged by the Purchaser and returned to the Supplier not later than 30 days after defect liability period/ warranty period.

3.18 Date of Delivery:

Date of delivery prescribed shall be deemed to be the essence of the purchase order/contract. Each unit of an item shall be delivered to destination not later than the delivery date specified in the order.

3.19 Liquidated Damages:

If the bidder fails to deliver any or all the goods or perform the services within the time period(s) specified in the purchase order/contract, purchaser shall, without prejudice to its other remedies under the

purchase order/contract, deduct from the purchase order/contract price, as liquidated damages, a sum equivalent to:

—0.5% of full contract value for each completed week of delay

OR

0.5% of the value of the delayed items/services only, for each completed week of delay

The total amount so deducted shall not exceed 10% of the Contract value. Once the maximum is reached, the Purchaser may consider termination of the contract.

Week comprising of 7 days including holidays and any incomplete week shall be ignored for the calculation of liquidated damages.

Purchaser may without prejudice to any other method of recovery, deduct the amount of such damages from any payment in its capacity, due or which may become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.

The total amount so deducted shall not exceed 10% of the purchase order/ contract value. Once the maximum is reached, purchaser may consider cancellation/ termination of purchase order/ contract, and forfeiture of performance ity and/or Retention amount.

3.20 Termination of contract:

- a. During the term of this contract, either party, reserves its right to terminate this contract by giving 30 (Thirty) days' notice without assigning any reason thereof.
- b. Purchaser reserves the exclusive right to suspend, cancel, and terminate this contract at any time if it has sufficient reasons to believe that the Contractor has failed to perform or observe or fulfil any of the terms and conditions herein before contained and/or liable and responsible for any loss or damage suffered by the Purchaser (office).
- c. The Purchaser shall have the right to ask of the removal of any person, if one is not considered to be competent and orderly in the discharge of his duties.

3.21 Termination for Convenience

(a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

(b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the date of issuance of the termination notice, shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

to have any portion completed and delivered at the Contract terms and prices; and/or to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

3.22 Termination in Consequence of Force Majeure

If circumstances of Force Majeure have occurred and shall continue for a period of 182 days then, notwithstanding that the Supplier may by reason thereof have been granted an extension of Time for Completion of the Works, either party shall be entitled to serve upon the other 28 days' notice to terminate the Contract. If at the expiry of the period of 28 days Force Majeure shall still continue the Contract shall terminate.

If the Contract shall be terminated as aforesaid the Supplier shall be paid by the Purchaser (in so far as such amounts or items shall not have already been covered by payments on account made to the Supplier) for all work executed prior to the date of termination at the rates and prices provided in the Contract and in addition:

a. The amounts payable in respect of any preliminary items, so far as the work or service comprised therein has been carried out or performed, and a proper proportion as certified by the Purchaser of any such items the work or service comprised in which has been partially carried out or performed.

b. The cost of materials or goods reasonably ordered for the Works or for use in connection with the Works which shall have been delivered to the Supplier or of which the Supplier is legally liable to accept delivery (such materials or goods becoming the

property of the Purchaser upon such payment being made by him).

c. A sum, to be certified by the Purchaser, being the amount of any expenditure, which in the circumstances was reasonably incurred by the Supplier in the expectation of completing the whole of the Works, in so far as such expenditure shall not have been covered by the payments in this Sub-Clause before mentioned.

d. The reasonable cost of removal under Sub-Clause 2 of this Clause and (if enquired by the Supplier) return thereof to the Supplier's works in his country or to any other destination at no greater cost.

e. The reasonable cost of repatriation of all the Supplier's staff and workmen employed on or in connection with the Works at the time of such termination.

Provided always that, against any payments due from the Purchaser under this Sub-Clause, the Purchaser shall be entitled to be credited with any outstanding balances due from the Supplier for advances in respect of Plant and materials, and any sum previously paid by the Purchaser to the Supplier in respect of the execution of the Works.

3.23 Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, without compensation to the Supplier, if:

- a. The Supplier becomes bankrupt or otherwise insolvent,
- b. The Supplier being a Company is wound up voluntarily by the order of a Court receiver, liquidator or Manager appointed on behalf of the debenture holders or circumstances shall have arisen which entitle the court or debenture holders to appoint a receiver, liquidator or a Manager, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

3.24 Resolution of Disputes

The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the Special Conditions of Contract. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and/or international arbitration. The mechanism shall be specified in the Special Conditions of Contract.

3.25 Applicable Law

The Contract shall be interpreted in accordance with the laws of the Union of India.

3.26 Right to use defective Goods

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the Goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such Goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchasers' operation.

3.27 Penalty:

In the event of the Contractor's failure to execute the work entrusted to him under this contract satisfactorily, Purchaser shall make alternative arrangement to do it and the difference of cost incurred by Martathvarhad, thereby shall be recovered from the Contractor's unpaid bills and Security Deposit.

If the service provided by the agency is found to be unsatisfactory, the same shall be brought to their notice in writing and if no improvement is found in a stipulated time, then a penalty up to 10% of the monthly payment value will be imposed and same shall be recovered from the monthly bill.

3.28 Force Majeure

The terms and conditions mutually agreed upon shall be subject to Force Majeure Clause. Neither party shall be considered in default in performance of their obligations here under if such performance is prevented or delayed because of war, hostilities, revolution, civil commotion, strike, epidemic, accident, fire, wind, flood, earthquake or because of law and order proclamation, regulation or ordinance of any Government or of any act of GOD or any other clause whether of similar or dissimilar nature, beyond the reasonable control

of the party affected. Should one or both the parties be prevented from fulfilling their obligations by a state of Force Majeure lasting continuously for a period of six months, the two parties should consult each other regarding the future implementation of the contract.

3.29 Taxes, duties and levies

All taxes, duties, levies etc. imposed by the Central / state Government in connection with this contract in force at the time of submission of BIDs shall be borne by the Contractor during currency of contract. The taxes deemed to have included in the price bid, however service tax shall be payable as applicable.

3.30 Completion of contract

Unless otherwise terminated under the provisions of any other relevant clause, this contract shall be deemed to have been completed at the expiration of the duration of contract.

3.31 Rejection:

Purchaser reserves the right to reject the goods either in full or in part, if at the time of delivery, it is noticed that the goods supplied do not conform to the specifications/ description given in the purchase order. The rejections, if any, will be intimated to the supplier in writing within a reasonable time. The supplier will be liable and responsible to repair/ replace the rejected goods within the original delivery period. No extra payment shall be made for such replacement to the supplier/ contractor for freight, unloading and insurance etc. Till the repair/ replacement is made, the rejected goods shall be lying at supplier's risk, cost and responsibility. If the supplier does not arrange to repair/ replace the rejected goods within the original delivery period, purchaser may dispose off such goods at supplier's risk and in the manner purchaser thinks fit. Purchaser shall be at liberty to purchase the quantity of items rejected from other parties without giving any notice and at supplier's risk & cost and recover the additional expenditure, if any, from any of the outstanding dues of the supplier/ contractor. Purchaser shall be entitled to recover the expenses made by Purchaser on storage and handling of such rejected goods till the goods are removed from Purchaser's premises/ stores.

3.32 Warranty:

The supplier/ contractor must provide a warranty for a minimum period of as mentioned in the technical specification from the date of commissioning of equipment for the satisfactory performance of the supplied equipment according to the designed/ rated/ installed capacity or any other norms fixed by Purchaser. If the equipment remains out of order during this period, the warranty will be accordingly extended by period the equipment was out of order due to non-repair by the supplier/ contractor.

3.33 Drawings, Specifications & Manuals:

Wherever applicable, prior to commencement of fabrication, the supplier/ contractor shall have to submit for Purchaser 's -- approval three sets of drawings of all the items ordered for supply, showing overall dimensions with typical sections, details of service connections and their equipment, details of drive units etc. for each equipment. Soft copy of the final (As built) drawings shall be submitted. In case of items for which drawing are provided by Purchaser, the supplier/ contractor shall fabricate/ manufacture the items strictly in accordance with these drawings and any other instruction given by Purchaser . For such items, there is no need for the supplier/ contractor to submit the drawings to Purchaser for approval prior to commencement of fabrication/ manufacture. Where documents and drawings are supplied to the supplier/ contractor by Purchaser, the same must be treated as confidential, must not be copied, reproduced, transmitted or disclosed otherwise in whole or part, nor duplicated, modified, divulged or discussed with any third party nor used in any other way without the consent of Purchaser in writing. All such documents and drawings, shall be the property of Purchaser and they must be returned to Purchaser after execution of the order. Wherever applicable, 3 sets of equipment manual should be provided along with the consignment.

3.34 Variation:

The Purchaser can make any variation of the form, quality or quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion be desirable, he shall have power to order the Supplier to do and the Supplier shall do any of the following:

- a.** Increase or decrease the quantity of any work included in the contract,
- b.** Omit any such work,
- c.** Change the character or quality or kind of any such work,
- d.** Change the levels, lines, position and dimensions of any part of the works, and

- e. Execute additional work of any kind necessary for the completion of the works and no such variation shall in any way vitiate or invalidate the contract, but the value, if any, of all such variations shall be taken into account in ascertaining the amount of the Contract price.

All extra or additional work done or work omitted by order of the Purchaser shall be valued at the rates and prices set out in the contract if in the opinion of the Purchaser, the same shall be applicable. If the contract does not contain any rates or prices applicable to the extra or additional work, then suitable rates or prices shall be agreed upon between the Purchaser and the Supplier, with consideration of Overhead & Profit limiting to 15%. In the event of disagreement, the Purchaser shall fix such rates or prices as shall, in his opinion, be reasonable and proper.

3.35 Sub-Contract:

In the event of awarding sub-contract to any party/parties by the supplier/contractor for the manufacture/supply/erection of any parts/spares/components that will be used in ordered equipment, the supplier/contractor must furnish the details about their sub-contract also. The responsibility regarding quality, quantity, guarantee/warranty of the materials supplied by the sub-contractors' rests on the supplier/contractor.

3.36 Dispatch Instructions:

The materials are to be despatched to the destination by the mode of transport specified in order under intimation to Purchaser. Depending on the type of material, the supplier shall have to carry out proper packing/ crating to avoid breakages in transit. Other details of despatch such as consignee's particulars etc. are mentioned in the purchase order. For using any mode of transport other than the specified one, prior concurrence from Purchaser in writing should be obtained. All consignments should be despatched on freight paid basis irrespective of price basis. In the event of freight payable extra by Purchaser, the supplier shall have to obtain Purchaser's-- prior approval and produce necessary documentary evidence in support of claims. Unless otherwise stated, the original RR/LR should be sent directly to the consignee along with three copies of invoice and two copies of Delivery Challan/e-way bills and Packing List.

3.37 Demurrage:

The supplier shall bear and reimburse to Purchaser the full demurrage, if any, paid by reason of delay on their part in forwarding the original despatch documents to the destination mentioned in the purchase order.

3.38 Submission of Bills:

Bills in triplicate stating therein the purchase order reference along with necessary copies of despatch documents are to be submitted as per instructions given in the purchase order. Unless otherwise stated, the payment shall be made by Crossed Account Payee cheque according to the terms of payment mentioned in the purchase order.

3.39 Electricity:

Electricity required for execution of works at site will be provided free of cost. However, necessary arrangements for tapping/connection etc. will have to be made by the contractor at his own cost.

3.40 Arbitration

- a. Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement or matter whatsoever, shall, before and after completion or abandonment of work or during extended period, hereafter arises between the parties, as to the meaning, operation or effect of the contract or out or relating to the contract or breach thereof, shall be referred to Sole Arbitrator to be appointed by Purchaser at the time of dispute.
- b. It is a term of the contract that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration under the clause.
- c. It is a term of the contract that the cost of arbitration will be borne by both the parties.
- d. The venue of the arbitration shall be Delhi.
- e. Settlement of any disputes arising out of this agreement will be subject to Delhi Jurisdiction only. The resolution of dispute, if any, shall be settled initially, by way of mutual consultation and if it is not settled the same shall be referred to arbitrator. The sole arbitrator will be appointed by NDDDB Dairy Services or an officer designated Purchaser under his discretion and the arbitration proceedings shall be governed by the provisions of the Indian Arbitration and Conciliation Act 1996 and thereafter amendments issued from time to time. The award of such sole arbitrator shall be final, conclusive and binding on the parties to this contract.

3.41 Jurisdiction

The contract shall be governed by and constructed according to the law in force in India. The venue of the arbitration shall be at Delhi only.

3.42 Negligence or default of contractor:

a. NDS may without prejudice to its other rights or remedy against the contractor in respect of inferior workmanship or any other provision of this contract or otherwise may issue a Notice in writing to absolutely determine the contract for the following cases:

b. If the contractor neglects to carry out his obligation under the contract and / or commits defaults in complying with any of the terms and conditions and does not remedy even after written notice.

c. When the contractor has been made liable for action under the aforesaid cases, NDS shall have powers:-

- i. To determine or rescind the contract. Upon such rescission, the full security deposit recoverable under the contract shall be liable to be forfeited and shall be absolutely at the disposal of NDS.
- ii. After giving notice to the contractor to measure up the work done by him in order to get the balance work done by another contractor.

Section 4 Technical Specification

4.1 INTRODUCTION

This section of the bidding documents outlines the technical specifications for the Design, Manufacture, Supply, Erection, Testing and commissioning of cattle feed manufacturing and allied service equipment required **12 TPD Mineral Mixture Plant in the new 150 TPD Cattle Feed Plant** at Ambedkar Nagar, UP.

These technical specifications are for the guidance of the bidders only and not intended to bring out all the details of design and manufacturing of the equipment or equipment components. The successful Bidder shall be fully responsible to undertake all the works involved in the design, engineering, manufacture, supplying equipment at site including the erection, testing and commissioning of all the equipment of required for the expansion project. Bidders are to note that all the equipment / facilities being offered in this bid shall be part of the overall project and they shall be fully responsible in the overall timely implementation of the project on Turnkey basis, within the battery limits defined in this tender. The work being carried out shall confirm to high standards of engineering design & workmanship. The equipment offered shall be capable of performing in continuous commercial operation to meet agreed performance standards and acceptable to the purchaser/client. No exclusions of any nature are acceptable, other than those specifically detailed in this bidding document.

Bidders are required to provide all technical data/information wherever asked for. Any bid not following the bid format structure or provided with insufficient technical data/information/documents is liable to be considered as non-responsive.

Purchaser will interpret the meaning of various equipment specification and drawings submitted by the bidder and shall have the right to reject any material/equipment, which in their opinion is not in full accordance to tender specifications.

4.2 Project information

Capacity of Mineral Mixture Plant	12 TPD (20 hrs operation)
Nearest Railway Stations of proposed plant	Ayodhya
Nearest Town/City	Ambedkar Nagar
Nearest airport	Ayodhya

Site Address	4.2.1 Village: NDDDB Dairy Services, Cattle Feed plant, Dostpur road, Akbarpur , Ambedkarnagar-224122.
Site Elevation	420 M from MSL
Relative Humidity for performance	80 %
Seismic Area	Zone-II (Moderate)
Wind velocity	15 Km/Hr(normal), 110 Km/Hr (during cyclone)
Design wind velocity	As per IS 875 amended up to date
Seismic co-efficient	As per IS 1893 amended up to date
Area Classification	Safe & non-hazardous
Environment	Non-Corrosive

- A. The job shall be executed on single responsibility basis and this contract shall be covering design, fabrication, supply, erection, testing & commissioning of the entire equipment required for 12 TPD Mineral Mixture Plant in the Cattle Feed Plant and related Engineering facilities.
- B. Plant to be installed in Raw Material Godown and LT electrical power shall be used from Plant MCC panel. Air-line for MMP to be tapped from nearest available point in RMG.
- C. Although the conceptual layout and flow diagram is enclosed in this bidding document, the bidder shall be responsible for developing the detailed layout and flow diagram as per requirement, to meet all the quality standard of feed as well as to fulfil the design data and technical specification specified in the Bidding Document within the battery limits.
- D. As already stated, this work will have to be executed on a single responsibility basis and the bidder should consider the complete work in its totality. It should be understood that works necessary to achieve the rated capacity of 12 TPD (minimum)

in 20 hour operation is included in the scope of work, though not specifically mentioned.

E. It is suggested that the bidder visits the site before submitting the bid.

F. The plant shall be designed, supplied and executed in accordance with the prevailing standards as applicable to the pack.

- Bureau of Indian Standards
- Indian Boiler Regulations
- Indian Electricity Rules
- State Electricity Board (SEB) regulations where plant is located
- Chief Electrical Inspectorate requirements of State where plant is located
- Indian Explosives Act
- Indian Factory Act
- Indian Weights & Measures Act
- And any other applicable Indian Act.

Wherever Indian Standards are not available/applicable, the bidder shall follow International Standards like DIN, British or American Standards.

Bidder shall also be responsible for arranging approval from various applicable Indian Statutory Authorities (on behalf of the Purchaser). Statutory fees paid on behalf of the purchase shall be reimbursed on submission of original document.

Mechanical and Electrical design, performance and function of the main equipment/parts and their accessories, including control panel, shall comply with the latest relevant Indian standards/norms. Safety and other statutory regulations/requirements shall comply with norms being stipulated.

Electrical works shall comply with the latest Indian Electricity Rules and other statutory regulations/ requirements of power supply authorities and Chief Electrical Inspectorate.

Electrical installation done by the bidder shall be approved by local statutory authorities and any modifications/changes suggested by the authorities, will need to be carried out by the bidder without any additional cost. Approval certificate shall have to be handed over to the purchaser.

Bidder's scope also includes arranging (a) inspection and stamping of various weighing equipment provided in plant from local Weights & Measures Authority and obtain approval for the same

G. Tendering Package

Scope of works covered in this bidding document is clearly described and specified in two parts with the Part (A) describing the Design and Supply of Cattle Feed Plant

Equipment / Services and Part (B) describing the erection, testing and commissioning of the equipment.

PART (A): Design and Supply of 12 TPD Mineral Mix Plant in Cattle Feed Plant, as specified in the schedule of quantities covers the following:

- a) Equipment for Milling, Mixing micro ingredients for production of 12 TPD to Cattle Feed Plant etc. along with the necessary conveying equipment.
- b) Steel supporting structure i.e. MS channels, angles, flats etc. for platforms, pipes for ladders, MS chequered plate walkways, staircase, and pipe railings in the area allocated for new equipment plant as per SOQ. Works also includes making cut-outs/opening as required.
- c) Necessary LT Electrical system complete i.e. Motor Control Centre, for various sections, motors/geared motors, power and control cables, isolators, push button stations, cable trays, earthing, capacitor bank, etc. with necessary process and equipment interlocks, control, instrumentation including plant automation as per specifications and plant operation requirement.

PART (B): Installation, testing and commissioning of 12 TPD Mineral Mix Plant at Cattle Feed Plant Equipment covering the following:

- a) Mineral Mix Plant equipment, including positioning, placement of equipment on AVMs/foundation if any, bolting, grouting etc. complete as per requirement.
- b) Steel structural work like chequered plate platform, pipe ladders, walkways, pipe railings, removal & installation of side cladding, windows etc. and plant lighting.
- c) Electrical works of the plant including MCC, Starters, Electric motors, Geared motors, power and control cables, isolators, junction boxes, cable trays, PB Stations, control, instrumentation with plant automation including testing of the same as per specifications and plant operation requirement.
- d) Earthing network consisting of Earth pits, Earth conductors etc. complete for the Electrical installation and equipment shall be provided by the bidder.**

4.3 Scope of Tender

Tender document covers all the works involved in setting up the facilities for 12 TPD Mineral Mix production.

Bidder shall undertake the complete work of Design, Fabrication, Supply, Installation, Testing and Commissioning of equipment for 12 TPD Mineral Mix Plant production at Cattle Feed Plant equipment in this tender on a single responsibility basis (except the civil work) and there should not be any exclusion whatsoever of any part. All items indicated in the tender should be quoted. Earth pits to be constructed

No bids will be accepted for part of the work and no exclusions may be claimed by any bidder from supply of any item of equipment or provision of any process or service from complying with the complete requirements of the bidding document.

4.4 Project Time Scale:-

Total work shall be completed in a time period of **1 months** after placement of order.

4.5 INSTRUCTIONS TO BIDDERS:

This section of the bidding document defines the way that bidders are required to structure the presentation of the technical section of the bids. All technical data are to be provided in the format given in this section. Bids not submitted in the prescribed bid format structure or bids submitted with insufficient technical data/information are liable to be deemed as non-responsive.

Bid Structure of Technical Section

Technical section of the bid is to be structured in the same order as the tender. Each statement is to be numbered with the same sub-section and paragraph number as in the bidding document. Every page of the technical section of the bid is to be numbered using the prefix of the sub-section and the suffix of the page number. The general structure is therefore to be as follows:

Sub section	Table of contents
1.	Introduction
2.	Design data & design basis
3.	Process Flow description
4.	Technical information(Data to be furnished by bidder)
5.	Deviations from technical requirement
6.	Optional items / Break –up price
7.	Major responsibilities of Bidder/Purchaser

8.	Project Management
9.	Drawings & Documentation
10.	Battery limits
11.	Performance Guarantee
12.	Criteria for technical evaluation of bid
13.	Scope of work

Bidder is to cover each requirement of the tender by statements, technical data and descriptive material and in particular to detail the following:

Sub-Section 1: Introduction:

Bidder is to take note of the various points listed in the introduction and they are to describe their technical proposal and systems which they have applied in designing the plant. Bidder can also highlight any special technical innovation that the bidder proposes to include in the plant that will improve the performance of the plant/equipment, reduce operating costs, reduce maintenance or improve product quality. The preamble should commence at the start of the process and work logically through the process. Any such highlights should be cross referenced with the Bid Sub-section and paragraph number to which they apply.

Sub-Section 2: Design Data and Design Basis

This sub-section gives in brief the design basis to be followed and gives the basic design data like operating/storage capacities and special requirements for major equipment/system, the typical ingredient types which will be used, required type and quality parameters of the feed etc. The bidder is required to follow the basis of design given in the bidding document and indicate clearly where additional processes or alternative processes or equipment are considered to be necessary or desirable to achieve optimum plant operating efficiency, optimum product quality etc. within the

standards specified and optimum plant operating convenience and maintenance. These additional items/sections and processes may be included as optional.

Sub-Section 3: Process Flow Description

The tentative process description of the additional production of 12 TPD from Cattle Feed Plant is detailed in this sub-section which is also diagrammatically explained in the tentative flow diagram enclosed with the bidding document. The preliminary site plan indicating the proposed area of the feed plant with the relative location of the various buildings/blocks is also enclosed.

It may please be noted that these drawings are only a tentative one to give an idea about the buildings, process and equipment required. It can be developed further as per the process flow and equipment layout designed by the bidder, to improve the operating flexibility and efficiency, reducing maintenance, easier expansion in future, less investment etc. Additional or alternate process or sections must be clearly detailed if proposed.

The bidder shall submit the process flow and equipment layout as proposed by them.

Sub-Section 4: Technical Information (Data to be furnished by bidder)

This sub-section specifies the various technical drawings, data and information, which each bidder has to provide along with their bid, without which the bid shall be considered incomplete and will be liable for rejection.

Sub-Section 5: Deviations from Technical Requirement

All technical deviations are to be stated. **If there is no deviation, nil is to be recorded. This is mandatory and failure to comply will make the bid liable to be deemed non-responsive.**

Sub-Section 6: Optional Items / Break –up price.

Optional items which the bidder proposes shall be included in this sub-section. Items that the bidder includes in this section shall be used, if considered during the evaluation to be essential for the satisfactory operation of the plant and shall be

included in the overall techno commercial evaluation of the bid. All break-up prices for all such optional items to be given.

Sub-Section 7: Major responsibilities of Bidder/Purchaser

Responsibilities of bidder:

Bidder is required to specifically state his acceptance or non-acceptance of each clause in this Sub-section. Non-acceptance shall be deemed as a deviation from the tender and should be mentioned in deviations.

Responsibilities of Purchaser:

Bidder is required to state any additional responsibilities that they consider to be borne by Purchaser besides those described in the tender.

Sub-Section 8: Project Management

8.1 Time Schedule:

Bidder is to state in this sub-section the proposed schedule of execution from receipt of order to commencement of product trials and handing over of the project. Bar-chart or PERT network or MS Project or Equivalent showing the time schedule of the various activities from Start to Completion is to be provided.

8.2 Management Team:

Bidder is to detail the makeup of the project management team in terms of designation, qualifications and their role/function in accordance with this section of the bidding document.

The bidder is to ensure that the following sections are fully detailed and quantify the duration and man power applied to each:

- Commissioning, Product Trials & warranty runs
- Training
- Stand-by Technical Supervisory Support
- Annual maintenance contract / Service Cover
-

Sub-Section 9 : Drawings and Documentation

In this section, list of drawings enclosed with the bidding documents have been indicated. Drawings and documentation to be submitted by bidders with their bid for technical evaluation of the bids are explained in the sub-section 5 (**technical information and data to be provided by the bidder**). Bidder to indicate and list out in this section the drawings, data and documents provided for technical portion of their bid. Successful bidder should submit 3 sets of hard copy of all drawings along with soft copy in Auto CAD to NDDB during execution for approval. Successful bidder should also submit 3 sets of hard copy of all as build drawings along with soft copy in Auto CAD to NDDB after commissioning the plant.

Sub-Section 10 : Battery Limits

Battery limits of the various utilities and Engineering services are clearly given in this sub-section and are to be confirmed by the bidder.

Sub-Section 11 : Performance Guarantees

Bidder is to take note of the various performance tests and guarantees stated in this sub-section.

Sub-Section 12 : Criteria for Technical Evaluation of Bids

This sub-section gives an idea to the bidder about the factors which will be considered to technically evaluate and compare the technical portion of the bids. The bidder is to take note of the same.

Sub-Section 13: SCOPE OF WORKS:

13.1: PART A (Design & Supply)

13.1.1 List of equipment to be supplied, installed & commissioned

In this section, a consolidated list of all major equipment to be supplied and installed as per preliminary design of the plant by purchaser are indicated with capacity and quantities. The bidder to provide in this section a consolidated list of all major equipment being supplied and installed as per their design and detailing along with

quantity, capacity, size, length, height etc. of each item. The bidder is required to follow the sequence in their list as followed in purchaser's list as far as possible to enable purchaser to compare the bids for evaluation. New items if required can be added, by bidder, section wise.

13.1.2 Technical Specifications for Feed Milling Equipment

It provides the brief general technical specification of each important feed milling equipment. Lengths, heights, capacities, inlet, outlet, driving motor HP and drive parts etc. may be worked out by the bidder to meet the overall capacities of section and complete plant as specified in design data and process flow. It may be noted that specification of the equipment mentioned in this section is very brief, but the bidders should ensure that each and every equipment is designed and manufactured to ensure the best performance of the individual equipment/ system. The technical specification of equipment are generally based on a particular design but bidders can supply equipment as per their design to meet the functional requirement of equipment specified in these technical specifications.

13.1.3 Technical Specifications for Utilities/Services

This sub-section provides the brief technical specifications for the various utilities/services including supply of its main equipment wherever required. The controlling and distribution piping network with valves, fittings and all required accessories for utilities like compressed air up-to each of the equipment where these are required is to be provided and clearly indicated in the bid.

This sub-section also includes brief technical specification of all main electrical equipment for receiving and distribution of electrical power in the plant and utilizing it for control and monitoring of equipment/process. Though the prices of motors and geared motors etc. may be included with the machines, the specifications of these are mentioned in this section.

13.1.4 Technical Specifications of Production Block Housing

The Raw Material Godown has sufficient space & provision for housing new equipment for MMP.

13.2: PART (B) ERECTION, TESTING AND COMMISSIONING

13.2.1 Technical Specifications for erection, testing & commissioning

The bidder is to note carefully the specifications in the scope of erection, testing and commissioning.

1.3 GENERAL TECHNICAL REQUIREMENT OF EQUIPMENT / PIPING:

1.3.1 Capacities of all machines as specified are based on average trace minerals bulk density of **1000 Kg/cum** unless otherwise specified.

1.3.2 Electric Motors: All electric motors must be of three phase, TEFC, squirrel cage induction type suitable for operation on 415V (+/- 10%), 50 Hz. (+/-2.5%), 3 phase, AC supply, unless otherwise specified. The insulation for motors should be of 'F' class and IP-55 class of protection unless specified otherwise. **Motor's efficiency shall be of IE3 or better.** Electric motors shall be TEFC, squirrel cage induction type suitable for operation on 400V (+/- 5%), 50 Hz. (+/-2.0 %), 3 phase, AC supply.

1.3.3 All driving gear motor shall be of horizontal foot mounted type (except gear motor of bin discharger, which shall be of vertical flange mounted type) with helical gears and minimum service factor of 1.4. Gear motor to be provided with key in driven shaft, oil level indicator, oil filling plug, oil breather and drain plug. Suitable grade gear oil for first charge of gear motor should be filled into the gear motor.

1.3.4 Controls: The limit switches, switch gear control coils, solenoid valves etc., to be supplied against various items should be suitable for operation on 230V, 50Hz, single phase, AC supply.

1.3.5 Flange Packing: Packing required for flange joints of machines / hoppers/bins etc. should be felt or asbestos fibre or rubber or any special material depending upon particular application / requirement. Packing to be fixed with glue rather than simple grease. If equipment is being dispatched in dismantled condition, necessary packing materials along with glue to be sent separately.

1.3.6 All machines are to be provided with motor/geared motor/motor-gear box and drive parts. The term 'drive parts' indicated in the technical specifications of equipment covers the supply of item as below:

- i) Chain drive:-Driving and driven sprockets of MS and flame hardened, required length of simplex/duplex chains with closing link and key in the driven shaft.

- ii) V' belt drive:-Driving and driven pulleys, required numbers, type and length of 'V' belts of polyester reinforced type, key in the driven shaft and slide rails for motor.
- iii) Direct coupled drive:-Suitable coupling with accessories and key in driven shaft. It shall be of chain type, unless otherwise specified.

Apart from above, the supply of base frame for motor/geared motor and drive guard / coupling guard of 2 mm thick MS sheet, is also included under drive parts.

- 1.3.7 Accessibility:** All the machines should have suitable provisions (platform with safety railing) for inspection, lubrication and maintenance.
- 1.3.8 Lubricant:** All the machines should be supplied with first charge of lubricant (grease/gear oil) etc. Supplied loose in drums and to be filled before testing and commissioning.
- 1.3.9 Welding:** All Stainless Steel to Stainless Steel and Stainless Steel to Mild Steel welding should be carried out by Tungsten Inert Gas (TIG) method. MS to MS welding shall be carried out by electric arc welding. All weld joints for fabricated equipment/hoppers/bins/piping etc. should be ground smooth from inside to facilitate easy and free flow of material.
- 1.3.10 Piping, Fittings and Connections:** Piping, insulation and other erection details shall be as per guide lines as specified in the Special conditions of Contract (Mechanical)
- 1.3.11 Electrical installation details:** Cable laying, earthing, checking the electrical installation and other electrical installation details shall be as per guide lines as specified in the Special conditions of Contract (Electrical)
- 1.3.12 Piping Sizing:** For sizing of various service utility pipes, the following flow rate is to be considered:

Compressed air line	30.0 M/sec
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- 1.3.13 Climatic Suitability:** All the equipment offered by the bidder must be suitable for trouble free working in tropical condition as in India.
- 1.3.14 Stainless Steel Finish:** For all stainless steel surfaces, the finish should be 150 grit or international Dairy Standard unless equivalent mill finish of Stainless Steel manufacturer is preserved.
- 1.3.15 Makes:** The bidders should mention at least two standard makes of all the bought out equipment/parts/components out of few approved makes indicated in bidding document and quote for them. Purchaser has the right to choose any of the makes and bidder shall be contractually bound to supply the same. Wherever bidder has failed to specify the make, the make chosen by the purchaser shall be binding.

- 1.3.16 Nameplate:** Every machine/equipment should have a name plate with manufacturer name, year of manufacture, capacity of machine, number and other relevant information if any, written on it. Nameplate shall be fixed on equipment with suitable bracket.
- 1.3.17 Shroud:** Drive and drive parts including coupling for motors in the feed plant shall be covered with safety grills/shrouds, easily removable type. All motors installed outside the building shall have shrouds, made from 14G Al. sheet having louvers for air circulation and a lifting handle.
- 1.3.18 Inspection:** Purchaser has the right to carry out the stage-wise inspection for all fabricated items.
- 1.3.19 LOT items:** Wherever "lot" items has been specified by the purchaser, like piping, cables and steel structures etc., the detailed list shall be provided by the bidder with unit rate. However **the bids shall be evaluated on LOT/SET basis only and also successful bidder shall have to execute these items on LOT / SET basis only.** Any materials under lot / set items required for the project execution shall be supplied & erected by successful bidder without any extra rate and all surplus material including scrap materials under lot / unit rate items after satisfactorily completion of works shall be taken back by the successful bidder.
- 1.3.20** The length of conveyors to be considered as 'centre to centre' distance between head and tail end bearings, unless otherwise specified.
- 1.3.21** In detail specification of equipment/hoppers and accessories etc., the thicknesses of construction material have been specified where ever required. It is to be noted that these are the minimum but the supplier may provide thicknesses more than these if required by their design/detailing of the equipment.
- 1.3.22 Discharging angle** of trace minerals in pipes/transition pieces/hopper bottoms etc., in general should be min. **60 degree** from horizontal for meals / powder.
- 1.3.23** All the equipment in general should be dust proof in design.
- 1.3.24** Painting: All bought out standard manufactured equipment may be supplied as per manufacturer's standard painting practice. The painting procedure for all the fabricated equipment at the supplier's work should be as given below.
- (i) Removal of rust from the surface by using sand blasting / emery paper / chemical rust solvent etc.
 - (ii) Applying one coat of suitable primer.
 - (iii) Putty should not be used to hide dented surfaces and instead dents if appeared should be removed carefully.
 - (iv) Applying two coats approved shade of synthetic enamel/black bituminous paint.
 - (v) Supporting steel structure, transition pieces & piping etc. being fabricated at site to be applied with two coats of corrosion resistant zinc oxide primer and one coat of synthetic enamel paint before erection/installation and then

final 2nd coat of synthetic enamel paint after erection / installation but before commissioning. Approved colour shades for equipment are as follow unless otherwise specified in equipment specifications or agreed during execution of contract.

Equipment	Suggested Colour
Machine body	Oyster white
Motors / Geared Motors	Ruby Red
Machine Platform / drive guard	Jet Black
Bins, Hopper	Sky Blue
Steel structure	DA Grey
Manual/ Pneumatic flaps	Lemon Yellow
Product Piping	Light Grey
Aspiration piping	Sky blue
Inspection Door	Azure Blue
Inside of machine/bins/hoppers	Black Bituminous
Support structure & legs of machine	Orange

1.3.25 Four sets of installation, operation and maintenance manual of all machines should be submitted/handed over to the purchaser. One set should be packed with machine while 3 sets should be sent with Handing over document to purchaser.

2.0 DESIGN DATA AND DESIGN BASIS

Capacity	:	Min. 12 TPD of Mineral Mix (20 hours operation)
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Average bulk density of trace minerals : 900 Kg/ cum.

The major equipment under plant are as under –

- A. Milling section with Ball Mill
- B. Dry Mixing
- C. Conveyors & Storage Silo
- D. Form, Fill & Sealing Machine with TTO printer and Pouch Take-off Conveyor
- E. Electricals for all equipment
- F. Structural steel

2.1 Milling & Mixing

2.1.1 Pre-mix preparation:

Micro ingredients requiring Milling are separately weighed and are manually loaded in ball mill. Ingredient milling & mixing time in ball mill is between 30 to 45 minutes. Milled ingredients should not be above 200-micron size. Milled ingredients are collected in laminated bags and are consumed as per requirement, to prepare a batch.

Materials to be added in Ball mill (198 kg/batch)

S.N.	Salt	Indicative qty in Mix (kg)
1	Calcite Powder	152.45
2	Copper Sulphate (anhydrous)	8.33
3	Zinc Sulphate (anhydrous)	36.36
4	Potassium Iodide (anhydrous)	0.35
5	Chromium Chelate	0.50
	Total-- kg	198

2.1.2: Batch preparation for ribbon mixer (500 kg per batch):

Ingredients required in larger quantities & powdered mix (trace minerals) from ball mill are manually fed in the batch mixer in the quantities as specified to get the required mix.

Mixer (ribbon) of 750 Ltr i.e. 500 kg per batch capacity is required. Mixer should have provision for forward and reverse rotation of the ribbon shaft for thorough mixing of various ingredients and premix in 20-minutes time. Raw materials are fed from the inlet at the top cover, through conveyor and after thorough mixing discharged from the bottom outlet having a pneumatic operated valve. The final product is stored in storage silo and then bagged through screw conveyor in bulk and pouch packing through FFS Machine.

Large quantity ingredients with premix for Ribbon Mixer:

Sl. No.	4.5.1.1.1.1 Raw material Mineral Salts	4.5.1.1.1.2 Indicative qty in Mix (kg)
1	Di Calcium Phosphate	285.6
2	Magnesium oxide	19.2
3	Calcite Powder	95.9
4	Premix from above table	99 (max)
5	Flavouring agent	0.08
6	Sweetening agent	0.08
	Total	500

2.2 Finished product handling:

It is intended to pack the finished feed in flexible film pouches of different capacity i.e 1 Kg, 2 Kg and 5 Kg and in Bags for 15/25 kg. For Pouch packing an Automatic Form, Fill & Sealing (FFS) machine is included. For Bulk filling in 15/25 kg bags manually, a platform weigh-scale & hand operated Hand stitching machine shall be supplied.

2.3 Electrical

- Power supply 415 volts, 50 HZ, 3 phase.
- All new electric motors to be squirrel cage, 3 phase Energy Efficient type **(IE3)** and have direct on-line starter up to **7.5 KW** and **VFD above 7.5 KW motors**. For all motor feeders below 40 HP use Motor Protection Circuit Breaker with overload /SC protection, contactors in Motor control centre for all new equipment under this project shall be provided. Additionally, One 63 A DP MCB and 2 nos. 63 A TPN MCB also to be provided. However for large sized motors suitable capacitors shall be directly connected across the MCC bus bar of main plant when respective motor is switched ON.
- For power, from MCC to all motors, **Copper** armoured cables with suitable rating shall be provided. For controls, armoured cables with copper conductor (minimum 1.5 Sq MM). For signals copper conductor un-armoured cables can be used.
- Electric geared motors either directly mounted on equipment shaft or with direct coupling preferred over motor with gear box combination. Minimum safety factor for gear motor/box to be 1.4. Blowers also preferred with direct mounted type electric motors rather than V belt driven.

2.4 Aspiration

- All dust generating equipment like hoppers/bins to be either connected to provided with air breather.
- Powder collected shall be recovered & reutilized.
- All compressed air piping to be of GI "C" class pipe for all new equipment under the plant.

2.5 General Requirements

- All product piping shall be of minimum 170 mm OD standard ERW MS "B" class pipe. Accordingly, slight glasses, SOV operated pneumatic flaps / gates being provided.
- **Spares – in the technical section**

2.6 OTHER EXCLUSIONS

- Internal electrification
- Access Roads.
- Laboratory Glassware, Chemicals & Equipment.
- Telephone & Intercom Systems
- Furniture for engineering store and laboratory.

3.0 DEVIATIONS FROM TECHNICAL REQUIREMENT

This tender provides guidelines for the processes and equipment to be used for the Mineral Mixture plant and the 'Design data and Design basis' and 'Technical Specifications' define the qualitative parameters and frame work against which equipment will be required to perform. It is incumbent on bidders to provide the fully detailed technical specification of the equipment and services which they intend to provide to fully execute the contract in line with the tender document.

Items which deviate from the bidding proposal shall be as per design specifications of the bidder and shall be treated as a deviation from the text of this bidding document. Deviated items should fulfil the minimum performance parameters as specified in this tender.

This bidding document does not allow bidders to make exclusions from any part of the bid and an incomplete list of equipment or an incomplete schedule of service utilities to be provided would be considered as a non-responsive bid.

4.0 MAJOR RESPONSIBILITIES OF BIDDER/PURCHASER

4.1 Major responsibilities of bidder

- 4.1.1 Developing the process design, complete engineering design supply of all equipment and systems, ensuring best performance of individual equipment/system, for which bidder shall avail the assistance of reputed specialists in their respective fields, wherever required, as per the details given in the bidding document and as per battery limits.
- 4.1.2 Performance and suitability of the total system. Performance tests should be carried out by the bidder in the presence of and to the satisfaction of Purchaser/Client's Representative.
- 4.1.3 Arranging and obtaining approvals from various statutory authorities on behalf of the Purchaser. The statutory fees shall be reimbursed by the Client/Purchaser on production of receipts.
- 4.1.4 Ensuring satisfactory performance, training of operating staff, stand by services after commissioning and after sales services of the complete plant/ equipment supplied and installed as mentioned in respective pack and as per battery limits.
- 4.1.5 First charge of gear oil, lubricants and consumables. "First charges" means that these items shall be replenished whenever and wherever required till the successful completion of product trials. However, supply of electricity, fuel oil, water, petrol and diesel etc. for plant operation is not covered in bidder's scope.
- 4.1.6 Test kits required for establishing performance parameters.
- 4.1.7 Necessary manpower and tools for installation, testing and commissioning
- 4.1.8 Performance guarantees with regards to the following:
- a) Rated performance of individual equipment and complete system.
 - b) Product quality standards conforming to the prevailing Standards.

4.2 Major responsibilities of Purchaser

- Internal telephone system.
- Engineering personnel to liaise with the supplier, Project Manager and the execution team.

- Provision of personnel for training and on-going jobs supervision.
- Permanent water and power supply at the time of testing and commissioning of the plant, including coal, petrol and diesel etc.

4.3 APPROVALS

- Approval on corrected technical documentation shall be given by NDDDB/Service recipient within 10 working days from the date of submission. Deficiency in technical information/drg shall be intimated within 7 working days of receipt.
- Supplier shall obtain approval for purchase of specific makes of equipment whose makes are not mentioned in his offer.
- All detailed design calculations regarding the selection of equipment sizes, system types, etc. shall be submitted to NDDDB/Service recipient for their specific observation and record.

4.4. INSPECTION

- For indigenous items, the supplier shall invite NDDDB/Service recipient for inspection and preliminary testing. Inspection may be required at various stages of manufacture/assembly for items.
- Quality Assurance (QA) for each equipment is required to be submitted for approval before start of the equipment fabrication.

4.5 TESTING AND COMMISSIONING

After installation of all equipment and completion of product piping and connection of all utilities including electrical, each equipment shall be cleaned properly to ensure no foreign materials like jute / plastic bags/iron particles etc. inside the equipment and tested at no load after checking all alignments. On completion of satisfactory no-load test, section-wise testing at no load shall be carried out. Any defect noticed during no load shall be attended to. After testing of all sections on no load, the plant as a whole shall be tested with trace minerals for trial run and ultimately commissioning the complete plant to the satisfaction of purchaser/project authority.

4.6 ESTABLISHING PERFORMANCE GUARANTEES

On completion of supply, erection, testing and commissioning of the plant / equipment, the same has to be operated at full capacity continuously in **2 shifts of 8 hours basis for 3 days** to the satisfaction of the Purchaser/Project Authority, to establish performance guarantees provided by the bidder. However, if

purchaser/client is unable to provide operating staff / required trace minerals for three shifts, number of days can be decided mutually.

4.7 TRAINING

Training in the operation and maintenance of the various equipment of the plant shall form an important component of Project Management. Training shall be undertaken by the bidder **for a period of 3 days (2shifts/day)** during which the contractor should guide and train the staff of the client in operation and maintenance of the plant equipment to achieve the optimum plant efficiency and product quality. Training should commence during the testing/ commissioning period and shall include:

1. Familiarisation with all major feed milling/ service equipment of all sections of the feed plant and utilities etc.
2. Procedure for attaining the rated output and optimum product quality.
3. Familiarisation with start-up procedures, regular maintenance and operational procedures including dismantling of machine parts, replacement of spares/components, preventive maintenance etc.
4. Condition monitoring of equipment.
5. Generating production and maintenance log sheets of important equipment and systems.

Training shall be given to all the personnel required to operate the plant equipment and their immediate Supervisors/ Engineers.

The training schedule should be proposed by the bidder together with the content of training programmes, their duration etc.

4.8 STAND-BY SERVICES AFTER COMMISSIONING

Once the commissioning and performance trial are over and the plant is taken over by Purchaser/Project Authority, the supplier shall provide remote/ field-based services during breakdown/ problems for resolution. The cost of such visits shall be included in the total offer of the bidder. If services are not extended during the defect liability period, commensurate recoveries shall be made from the submitted performance security.

5 LIST OF DRAWINGS AND DOCUMENTS

5.1 Following drawings are enclosed along with the tender:

- a) Overall site plan showing production plant area including Engineering stores, plant Engineers room, control room etc., Drawing ref. no. AN.5839.03.002.C.02.N
- b) Flow diagram ref. no. AN.5839.03.001.C.02.N

5.2 The bidder to provide drawing/data and technical details with their bid as specified in the **sub-section 5**.

5.3 After commissioning and during handing over of the plant by Supplier to Purchaser/Project Authority, the contractor to provide the following :

- As executed final drawings and technical data of the complete plant for operation, maintenance and permanent record in soft (in AUTO CAD) and 4 sets of hard copies.
- A consolidated operation and maintenance manual - 4 sets of the complete plant along with operation and maintenance of each key equipment as provided by manufacturer.

6.0 BATTERY LIMITS

S. No.	Item	Purchaser's scope	Bidder's scope
1.	Steel Structural works	--	Steel structure as per equipment and design requirements. Approach staircase, ladder, hand rail, platform, etc. shall be paid under structural steel item. <i>Equipment supports shall <u>not</u> be considered under steel structure item.</i>
2.	Civil works	Shall be executed as per drawings submitted by bidder	Civil works related to excavation for Cable laying, Earthing pit, construction of earthing Chambers

3.	Electrical	3 phase power will be available in Main plant MCC.	Power shall be drawn from Main plant MCC upto all Motors, etc in the scope of supply. <i>Distance of Main plant MCC from MMP is ~100m</i>
4.	Earthing	--	GI Earthing wires/strips for all motors upto earth-pits. Double earthing to be done for all new motors.
5.	Compressed air	Available in the RMG.	Compressed air line to be extended to points of requirement in Mineral Mixture Plant & FFS machine...

7.0. EXCLUSIONS

All Civil Works – For Foundations, trench, Pits etc for 12 TPD Mineral Mixture Plant.

OTHER EXCLUSIONS

- Water supply & distribution.
- Internal electrification.
- Access Roads.
- Telephone & Intercom Systems.
- Consumable packing materials, stitching threads.

RAW MATERIALS AND OTHER CONSUMABLES:

All trace minerals for production of feed, Packing Materials, Film rolls and operating staff for commercial production shall be provided by purchaser/service recipient. All consumables like gear oils, lubricants, packing for flanged joints etc. and commissioning spares required if any, for installation, testing & commissioning till taking over the plant by the purchaser shall be provided by bidder and the same after taking over the plant shall be provided by purchaser / service recipient. Raw material and film roll for trial of FFS machine at vendor's place shall also be arranged & provided by the Service recipient, if required to the destination of the supplier/OEM.

8.0 PERFORMANCE GUARANTEES

If the plant / equipment or any part thereof does not give the offered process performance, capacities and consumption guarantees as confirmed in **design data (3.0), technical data and information (5.0)** during the commissioning due to reasons attributable to the supplier, **supplier need to take necessary corrective actions for rectification required, if any.**

9.0 CRITERIA FOR TECHNICAL EVALUATION OF BIDS

Purchaser will evaluate and compare the technical merits of the bids based on the information provided by the bidders.

10.0 SCOPE OF WORKS:

The scope of the work is as follows:

Design, detailed engineering, manufacturing, inspection at manufacturer's works, packing, forwarding, supply, unloading at site, erection, testing, commissioning, achieving rated equipment and plant capacities and handing over to purchaser's satisfaction of the following as given section wise in the list below and not limited to :

10.1. A - Design and supply of

- Key equipment like Ball Mill for 12 TPD Mineral Mix plant, FFS machine with the necessary conveying equipment like conveyors, mixer, hopper etc.
- Bins, hoppers, product pipelines, aspiration ducting, flaps, sight glass etc.
- Piping distribution system for utilities such as services like compressed air including pipelines, valves and accessories required for the various feed equipment under the various plant sections defined above.
- **Mild steel structure supports for equipment are a part of the equipment and shall not be paid under structural steel measurements.** MS channels / angles / flats etc. required for providing maintenance platforms, ladders, pipe supports, walkways and safety railings, toe guards including chequered plates for uncovered area in the production block under expansion of plant are in the bidder's scope of work & shall be paid on actual after complete erection & commissioning.
- Necessary LT electrical system complete for the feed plant expansion starting from the Plant's New Motor Control Centre for all new equipment under expansion, new control desk with mimic, downstream motors and gear motors/gear boxes, power and control cables, isolators, push button stations, cable trays, earthing, capacitor bank, etc. with necessary process and equipment interlocks as per plant operation requirement.

10.1. B. Erection, testing and commissioning of:

- The scope includes positioning, placement of equipment on AVMs/foundation if any, bolting, grouting etc. complete as per requirement.
- Laying and testing of the pipelines for services like compressed air etc. including making necessary tapping with valves and accessories with necessary supports for the various utilities and services.
- Erection of structural platforms, chequered plates, ladders, walkways, railings etc. including installation of plant lighting, removal & re-fixing side cladding of the new production block.
- Erection and commissioning of complete LT electrical works for the plant including MCC, Starters, Remote control panels, Electric motors, Geared motors, power and control cables, field sensors, isolators, junction boxes, cable trays, PB Stations etc. including testing of the same.

- Installation of the Earthing network consisting of Earth pits, Earth conductors etc. complete for the entire new electrical installation under expansion of the plant.

The section wise list of equipment is as follows:

- 10.2 Bidder's scope of supply also includes supply of wear parts and spare parts of their equipment for **one year** trouble free operation as mentioned in General Requirement (point no.16) under clause 3.0 - Design data and Design basis of feed plant of section VI – Technical Specification.
- 10.3 All consumables like Gear oils, lubricants, packing for flanged joints etc. and commissioning spares, required if any, for installation, testing & commissioning till taking over the plant by the purchaser shall be provided by bidder and the same after taking over the plant shall be provided by purchaser / project authority.
- 10.4 Test runs and commissioning trials including imparting training for operation and maintenance.

Important note for Bidder –

- The technical specification of equipment is generally based on a particular design but bidders can supply equipment as per their design to meet the functional requirement of equipment specified in these technical specifications.
- The list of equipment accessories & their capacities may vary as per design and detailed engineering by the bidder to achieve the minimum equipment rated capacity as specified in design data (clause 3.0 of SECTION VI) & battery limits.
- As stated above, this tender is for design, supply, installation, testing and commissioning of all the production and processing equipment and the allied service equipment. Bidder will therefore have to execute this as a turnkey project on a single responsibility basis and should consider the complete work in its totality.
- All minor works which may be necessary to achieve the rated capacity of the individual equipment being supplied and in turn to achieve the rated plant capacity, is included in the scope of work, though not specifically mentioned.
- The length / height of conveying equipment mentioned are approximate. It may vary on either side. Successful bidder has to supply the equipment as per site requirement and as per the approved equipment layout without any extra cost.
- The unit rates of items / equipment and its drive unit of suitable rating shall be quoted separately by the bidder and shall be on FOR site basis inclusive of packing & forwarding, insurance, freight, taxes, duties etc.
- All surplus materials under unit rate /lot items shall be taken back by the successful bidder after satisfactory completion of works.

The equipment and accessories shall be covered under the warranty/guarantee clauses specified in bidding document.

11. TECHNICAL SPECIFICATIONS OF INDIVIDUAL EQUIPMENT

This section gives the technical specifications of all equipment, some of which may not be needed for this project in the present scope.

11.1 Ball Mill (MOC: SS-304)

S No.	Description	Requirement
1.	Drum Capacity	500 litre
2.	Ingredient size (inlet)	Minimum 200 micron – Max 3 mm
3.	Output in powder form	200 micron
4.	Drum	
	Drum size	900mm dia X 900 mm long
	Drum thickness	Shell - 10 mm ; End plate – 16 mm with suitable MS plate stiffeners
	Drum speed	55 - 57 rpm
	Inlet cum outlet	Leak proof connections 2 nos -250 dia hand hole with ½” SS ball valve for air vent, hinged with locking arrangement.
		Barrier screen with 16 mm dia rod with 16 mm flange to prevent fall of balls on suitable doors
	Drive	Suitable HP, 1440 or 960 rpm motor with suitable helical gearbox; IP 55, IE3 class, insulation class F, drive /coupling guards to be provided
5.	Balls	MoC EN 31 alloy steel, 50 ±5 mm dia (each), total balls weight - 60 kg
6.	Shroud	SS 304, 2 mm thick in 2 halves bolted over the drum. Top hood, shall have a hinge cover suitable to tighten the hand hole cover of the drum. Bottom hopper it shall have a hand operated slide gate valve for unloading of the crushed mineral mix powder. Two halves flange joints shall be provided with asbestos / rubber flat gasket to prevent powder leakage. The gap between rotary drum shaft and the shroud should also be filled with suitable cover/ asbestos gasket. The height of bottom hopper outlet valve from finish floor level should be around 800 mm.
7.	Supporting structure	Self-supported type, resting on individual supports of ISMB/ ISMC as per requirement. Equipment Legs shall have foundation plates with drilled holes for anchoring of foundation plates. MS grill operating platform with ladder & railing is required.

11.2 BATCH WEIGH HOPPER :

Weigh Hopper of minimum 500 Kg capacity batch, shall be installed to ensure dumping of ingredients from bags to conveyor running below. **Load cells shall be installed on the hopper for ensuring correct weight of ingredients.** There shall be a 2” display size of the net loaded ingredient weight, for the weigh hopper.

Construction detail of dumping cum Weigh hopper shall be as follows:

Main body	-	minimum 3 mm thick MS sheet
Grill	-	40 mm x 6 mm MS flats (vertical position)
Frame	-	65 x 65 x 6 mm MS angle
Grill	-	Removable M.S. Magnetic grill (opening on top).
Support	-	Suitable as per requirement & site condition
Load Cell – As per requirement		

11.3 INCLINED INTAKE SCREW CONVEYOR

S No.	Description	Requirement
1.	Capacity	4 TPH
2.	MOC	MS
3.	Installation	Conveyor shall be designed for inclined operation. Material discharged from weigh hopper shall be conveyed by this screw conveyor to Ribbon mixer. At the end of the operation, for emptying the screw completely, it shall have a hinge cover at the lower most portion of the screw with collection tray.
4.	Approx. Length	3800 mm
5.	Drive Screw	2" NB, SCH 40 seamless MS pipe
6.	Flight	5mm thk MS
7.	Conveyor	Minimum 8" NB Sch 40, MS seamless
8.	Drive Unit	3 phase Electric motor (IE-3) and helical gearbox assembly shall be mounted on the frame. 1440 rpm, IP 55 protection, class F insulation.

11.4 RIBBON MIXER

S No.	Description	Requirement
1.	Volume Capacity	750 L (suitable for 1 batch size of 500 Kg with minimum 20% buffer)
2.	Trough	Trough and side plates shall be made out of SS 304 plate of minimum thickness 6 mm. The side plates & trough shall be further stiffened with MS plate if required. The trough shall be 700 dia. x 1400 L x 850 H (minimum) or as per OEM design. Top cover shall be of SS 304, 2 mm thick plate having provision of inlet hopper for feeding the material from top. The outlet shall be with Solenoid operated pneumatic gate for quick emptying of mixer. An inspection window of size 250 mm x 300 mm should be provided on the top cover at the outlet side with hinge and tightening arrangement.
3.	Drive Shaft	4" Sch. 40 seamless SS 304 pipe having solid EN8 shaft at both ends.

4.	Ribbon	SS 304 flat of 40 x 8 thick plate. The ribbon shall be duly supported by 25 mm dia. SS rod with centre pipe.
5.	Drive Unit	3 phase electric motor (IE-3) and suitable helical gearbox assembly shall be mounted on the frame itself. Suitable rating, 1440 or 960 rpm, IE-3, IP 55 protection, class F. The drive unit shall be provided guard fixed on frame. Driven side rpm shall be decided by the bidder.
The ribbon mixer shall be mounted on independent MS structural support with legs/frame as per design. There shall be no pit for the discharge conveyor.		

11.5 INCLINED MIXER DISCHARGE SCREW CONVEYOR:

S No.	Description	Requirement
1.	Capacity	4 TPH
2.	MOC	MS
3.	Installation	Conveyor shall be designed for inclined operation. Material discharged from Batch Mixer shall be conveyed by this screw conveyor to Silo. At the end of the operation, for emptying the screw completely, it shall have a hinge cover at the lower most portion of the screw with collection tray.
4.	Length	4200 mm (APPROX)
5.	Screw pipe	2" NB, SCH 40 seamless MS pipe
6.	Flight	5mm thk MS
7.	Enclosure pipe	Minimum 8" NB Sch 40, MS seamless
8.	Drive Unit	3 phase Electric motor (IE-3) and helical gearbox assembly shall be mounted on the frame. 1440 rpm, IP 55 protection, class F insulation.

The conveyor shall be mounted on independent structural support with legs/frame as per design.

11.6 STORAGE SILO (POWDER)

S No.	Description	Requirement
1.	Capacity	1000 kg (1200L)
2.	MoC & Construction	Dimensions ~ 900ø x 1200mm high shell and minimum 550 mm high cone. Silo shall be fabricated from minimum 3 mm thick SS 304 sheet for cylindrical shell & conical bottom and 2mm thick for top cover. Stiffening/pad plates can be of MS.
3.	Top inlet	Silo shall have top inlet for receiving powder discharged by screw conveyor. The top cover should in two halves, hinged such that inlet and air vent connection on bolted portion, and other half tightened with quick openable clamps to use it as inspection window. Silo shall have an air vent duly covered with filter bag & cage.

4.	Legs	Silo shall be supported on pipe legs as per installation requirement.
5.	Discharge	Discharge shall be connected to manually operated gate. Conical bottom of the silo shall be provided with 3 nos electro- magnetic bin vibrator at 120° angle for easy discharge of the material in case of air pocket formation.
6.	Level Sensors	High & low level sensors to indicate level of material in silo & auto-off of feeding conveyor.

Note : Silo shall be installed as per locational requirement of layout.

11.7 DISCHARGE SCREW CONVEYOR FOR SILO (INCLINED):

S No.	Description	Requirement
1.	Capacity	3 TPH
2.	MoC	MS
3.	Installation	Conveyor shall be designed for inclined operation. Final Mineral Mix, stored in silo shall be discharged through this conveyor for bagging operation manually as well as to feed the hopper above FFS machine. Manual Bag Closing machine (hand operated) to be provided as per scope. At the end of the operation, for emptying the screw completely, it shall have a hinge cover at the lower most portion of the screw with collection tray.
3.	Approx. Length	5000 mm
4.	Screw pipe	1.5" NB, SCH 40 seamless MS pipe
5.	Flight	5mm thk MS
6.	Conveyor	Minimum 5" NB Sch 40, MS seamless
7.	Drive Unit	VFD driven - 3 phase Electric motor (IE-3) and helical gearbox assembly shall be mounted on the frame. 1440 rpm, IP 55 protection, class F insulation.

Note : Conveyor shall be installed on steel structural support as per layout requirement.

11.8 AUTOMATIC VERTICAL FORM FILL SEALING (FFS) MACHINE WITH POUCH TAKE-OFF CONVEYOR, TTO PRINTER ETC

Required Capacity - 1.5 TPH (Minimum 25 pouches / min. for 1 kg pack)

1.0 FUNCTIONAL REQUIREMENTS

FFS machine is required to automatically form, fill & seal fixed weight of powdered mineral mixture in laminated pouches. Machine shall pack in variants of 1 kg, 2 Kg and 5 kg.

2.0 DESIGN REQUIREMENTS

- 2.1 Capacity - **1.5** TPH for 1 kg pouches – min 25 pouches/min of mineral mixture having bulk density approx. 1000 Kg/cu.m. Machine should be suitable to pack 1 Kg, 2 Kg and 5 kg in pouches. Machine shall be suitable for Maximum 400mm dia. film roll with paper core of 76mm.
- 2.2 Filling system – Servo driven Auger Filler.
- 2.3 Weight Accuracy - Maximum $\pm 1.5\%$ for all 1 kg, 2 Kg & 5 kg pouch.
- 2.4 Variants - 1Kg, 2 Kg and 5 Kg pillow type pouches.
- 2.5 Compressed air – Air to be drawn from nearest available location in RMG.
- 2.6 Packaging material: Heat sealable laminates/virgin film printed or unprinted.
- 2.7 Pouch type: Pillow type pouches having Centre seal and fine seal.
- 2.8 Maximum pouch size (approximate): Standard sizes as per pouches available in Rajasthan. Purchaser/End User shall provide the final sizes of pouch during detailed engineering.
- 2.9 The machine shall have the following features:

S. No.	Item	Requirement
1.	General Construction	Vertical plate mounted on 80 micron thk powder coated MS fabricated frame with SS 304 side Doors to access the various mechanism for maintenance as & when required. Vertical & Horizontal sealing assemblies with required mechanism & film pulling assemblies to be mounted on vertical plate. All product parts shall be of SS304 with 150 grit inner finish & circle polish outer finish. Shall have static charge eliminator.
2.	Feeding system	Servo driven Augur filler
3.	Drive mechanism	Two servo driven motors & drives and transmission though reduction Gearbox
4.	Film Carrier	Shall have film mounting with provision of installing photocell, coding unit, unwinding mechanism, Air Loaded film Mounting Assembly & end of film Sensor to stop the machine automatically. The film carrier shall be guided by a motorized mechanism operated by TWO push buttons on the control panel for left & right movement of the carrier to guide the film uniformly & avoid film shifting due to improper film winding.
5.	Film mounting	Film roll needs to be mounted on a metered Air Loaded Shaft with positive gripping & Tool less handling. The Film roll should be positively gripped on the shaft when the air is blown in to the shaft. Separate Air Gun shall be supplied along with the

		machine. It should be possible for Film Core to be guided out by just pressing the pressure knob on the shaft & removing the air pressure in the shaft
6.	Film guide	Film passing through rollers & dancing mechanism for film unwinding with proximity sensors.
7.	Forming	Film after passing the various rollers shall enter into Former & Tube assembly, where it is formed into a tube.
8.	Vertical seal	Post forming of the tube, Vertical Sealing of tube is performed by pressuring the heated Vertical Jaw on the tube by a pneumatic Cylinder.
9.	Film pulling	Film is pulled done by a set of rubber belts driven by dedicated servomotor and gearbox. Pulling length is settable based on the detecting the “EYE MARK” by a Photocell unit mounted on the Film Carrier. Film Pulling belts are actuated by Pneumatic cylinder to ensure sufficient pulling pressure.
10.	Horizontal sealing	Sealing is performed by 2 heated sealing jaws actuated by Servomotor to seal the bottom & top of the Film Tube to form the Pouch.
11.	Pouch cutting	Cutting happens in Jaw closed position with a pneumatically operated Cutter mounted on the Horizontal Jaw.
12.	Electrical Control panel	Electrical power cum control panel with MS Powder Coated enclosure (minimum IP 54 rating). Panel should be machine mounted with all required built-in Controls, PLC, Drive etc. HMI, PID Type Temperature controllers, Main Switch & Emergency Switch are to be installed on the external face of Panel at operable height. All overload relays, indicators, UV & phase protection safeties.
13.	Machine control	Machine should be operatable from PLC controlled HMI min 7” colour Display unit for setting the required parameters like pulling length, cutting, sealing etc.
14.	Pouch counter	Built-in pouch counter and production totalizer.
15.	Level sensors	Level sensors on the feeding hopper
16.	Dust extraction system for FFS	Required as per OEM design
17.	Pouch take off conveyor	Required for 2 mtr length
18.	3 phase voltage stabilizer	3 phase voltage stabilizer of required capacity
19.	TTO printer	Required
20.	Spares	One year
21.	Weigh-scale	A 5 Kg weighscale shall be supplied with m/c

Additional safeties required:

- Auto stop facility to stop the machine and audio-visual alarm should be provided, if the roll is exhausted, obstacle between horizontal jaws, machine doors are open, low air pressure, no material in feeding hopper.
- Rear door(s) of machine should have visible through glass to see the coding /printing of the film.
- Minimum Change over time from one size to another.
- All safety devices to protect the life of men and machine.
- Necessary operation & control switch to be provided near the conveyor.

Material of Construction

Sr	Description	MOC
1	Product Contact Parts Auger Filler	SS 304
2	Product Contact Parts Bagger	SS 304
4	Structure – Auger Filler	Mild Steel WITH POWDER COATING
5	Structure – Bagger	Mild Steel WITH POWDER COATING
6	Control Panel Enclosure.	Mild Steel WITH POWDER COATING

TOOLS REQUIRED:

- SPANNER SET, ALLEN KEY SET, ELECTRICAL TESTER, SCREW DRIVER (2 SIZE), CLEANING BRUSH, AIR GUN, PLIER, Nylon Hammer etc

SPARES/CONSUMABLES REQUIRED:

- Horizontal Heater – 2 Nos.
- Vertical Heater – 1 No.
- Horizontal Spring – 2 Nos.
- O-ring for unwind – 3 Nos.
- Thermocouple sensor – 1 No.

All required spares/consumables over & above-mentioned minimum spares required for one year operation, shall be supplied by the successful bidder during performance period of 1 year, if damaged during normal working conditions. Additional spares as required during defect liability period, shall be supplied, without an additional cost.

Note : Bidders shall submit a list of all essential spares/ consumables for the packing machine, along with the bid

4.0 **REMARKS:**

- 4.1 Stamping of the machine from the respective weights and measures authorities after installation to be arranged by the supplier. Necessary stamping fees would be reimbursed at actual on presentation of documentary proof. The necessary certificates to be furnished by the supplier along with required approval of local Weights & Measures Authority.
- 4.2 Film loading system to be provided at low level for easy loading of film.
- 4.3 All pneumatics to be of reputed make.

- 4.4 The bought-out items should be clearly indicated with make, model and type.
- 4.5 A set of operation and maintenance manual, all drawing shall be supplied along with the machine.
- 4.6 A detailed technical literature of the pouch filling machine shall be enclosed along with the offer.
- 5.0 **Tools:** Essential special tools should be supplied along with the machine without any extra charges.
- 6.0 **Erection, Commissioning & Performance trials:** The OEM has to depute their service personnel to the project site for erection, commissioning and demonstration of the performance parameters of the machine. During commissioning necessary training shall be imparted to the plant personnel regarding its operation and maintenance aspects.

11.9 MCC CUM CONTROL PANEL:

S No.	Description	Requirement
1.	The control panel shall be fabricated from 2 mm thk CRCA sheet. Panel shall have RYB indication lamps with ON/OFF indication after incomer MCCB is put ON. Digital Multifunctional meter shall be installed for the panel. For local operation of the Conveyors, a remote ON-OFF Push button station is to be provided near the outlet for operation.	
	Incomer feeder	Minimum 100 A TPN 4 P MCCB , with Multifunctional meter, RYB, ON-OFF push buttons
	Mounting	Floor Mounted type
	Outgoing Feeders	
	Ball Mill	Suitable MPCB with ON-OFF Push button
	Intake Screw Conveyor	Suitable MPCB with ON-OFF Push button
	Ribbon Mixer	Suitable MPCB with ON-OFF Push button
	Discharge conveyors	Suitable MPCB with ON-OFF Push button
	Silo Discharge screw conveyor for FFS machine	VFD ON-OFF Push button
	FFS	Suitable MPCB with ON-OFF Push button
	Lighting	15 A single phase MCB
	Spare feeder	1 each for Ball mill & Ribbon Mixer
	Single phase for vibrator panel	Suitable MCB as per requirement

Suitable Capacitor (APFC) in the MCC cum control panel for power correction shall also be provided by the supplier.

Incoming cable shall be drawn from a feeder provided in the MCC room of main plant building. Overhead cable in cable tray/ GI conduit shall be executed by the successful bidder as per site situation and as per direction of engineer-in-charge.

11.10 Mounting Structural Steel Frame & Leg Supports

Ball Mill, Ribbon mixer, Intake and Discharge conveyors and silo shall be mounted on independent MS skid fabricated structure. Working platform with railing and ladder for the ball mill, ribbon mixer shall be provided. Suitable maintenance platform for motor/GB of inclined screw conveyors to be provided by the bidder. Control panel of the plant shall also be mounted at suitable location. All Supports shall anchored on the RMG floor. No SKID is required, However any tie support for strengthening of equipment leg support is required, is to be carried out by bidder under steel structural item.

11.11 WEIGH SCALE

1 no 100 Kg electronic type with single load cell, digital indicator for weight and platform to keep the bags. Capacity 100 Kg - 01 no. Platform weigh scales shall be suitable to work on 230 V, 50 Hz single phase supply. Material of construction for platform cover, its top & bottom frame and Load Cell MOC of weigh scale shall be of SS 304.

Supply and Installation of Single Phase Switch & Socket for **power supply of weigh-scale** shall be in the bidder's scope.

Stamping from local statutory authority is required for both platform weigh scales and FFS machine. Statutory fee paid on behalf of purchaser shall be reimbursed on submission of original document.

11.12 MANUAL / PNEUMATIC SLIDE GATES

Slide gates are required for discharging/accumulating solid ingredients in the hopper/bin/conveyor/other equipment. These shall be either manually or SOV/pneumatically operated, & shall be complete with reed switches (for pneumatic gate)/ scale (for manual) to indicate the position of the gate. For pneumatic gates suitable size, air cylinder (double acting) & adequate rating solenoid valve shall be provided.

11.13 HAND OPERATED STITCHING MACHINE

Single-thread chain-stitch portable filled bags closing sewing machine, hand operated to be provided for manually stitching the HDFC/PP bags of Mineral Mixture Plant. It should be light weight, robust, maintenance free and easy to operate and

should be dependable even under the most adverse operating conditions in an industrial environment. Supply and Installation of Single Phase Switch & Socket for **power supply of portable stitching machine** shall be in the bidder's scope.

General Features -

- Trouble-free continuous operation : Closes bags at ease in the plant.
- Quiet operation : High-grade, wear-resistant nylon cam should ensure minimum noise level in comparison to loud noise experienced in machines with steel cams during operation.
- Safety handle : Strong plastic handle for insulation.
- Non-corrosive finish : It should resist corrosion in damp and humid conditions.
- Superior powerful lubricator : Lubrication system should consist of an oil pump and a reservoir. Oil lines from the pump direct the lubricant to the main moving parts.
- Sealed Motor : Should have total dust-proof enclosure.
- Automatic thread cutter : Protected cutting blades sever the thread after the bag is closed.
- Timing Belt : Machine should operate without much effort under tense workload.
- Adaptable : Stationary or suspended use can be attained from this machine without loss of useful portable features.

11.14 SPARES FOR ONE YEAR PLANT OPERATION – The Following spare parts shall be supplied along with the plant for trouble free operation:-

S No	Equipment/ Item	Qty
1.	Ribbon Mixer & Ball Mill	
	Flexible coupling bush	1 Set for each m/c
	Main Bearing for Ribbon Mixer	1 No
	Main Bearing for Ball Mill	1 No
2.	Silo Inclined Screw conveyer (Feeding)	
	Outboard bearing	1 no
	Hanger Bearing Bush	1 No
	Thrust bearing	1 no
	Coupling	1 no
3.	Intake Inclined Screw conveyer	
	Outboard bearing	1 no
	Hanger Bearing Bush	1 No
	Thrust bearing	1 no
	Coupling	1 no
4.	Silo Discharge conveyer	
	Love joy coupling	1 no
	Hanger Bearing Bush	1 Nos
	Air tube	2 mtr

	Air breather cloth	5 mtr
	Seal kit for pneumatic cylinder	1 Set
	Solenoid Valve	1 Set
5.	Spare for FFS machine for one year normal operation as per recommendation by OEM	1 Lot (list to be furnished by bidder for technical evaluation)

These spares are for trouble free operation and not meant for any replacement require during commissioning of the plant, which is bidder's responsibility. Bidder may offer any other spare as per recommended according to design of their equipment.

General Terms and conditions for Fabrication, installation, testing and commissioning of Mineral Mixture Plant, capacity 12 MT/ day (20 hours operation).

1. WELDING AND FINISHING :

All stainless steel plates shall be welded with TIG welding process and finish to ground smooth. Outer MS stiffeners, supporting structure members and complete skid shall be painted with red oxide & two coats of approved shade paint.

2. MANUFACTURING CODE :

Fabrication of the equipment shall generally be done following good engineering manufacturing practices.

3. ENGINEERING AND FABRICATION DRAWINGS :

The successful bidder has to get the engineering & fabrication drawings approved prior to start the fabrication works.

4. INSPECTION:

Inspection and testing shall be carried out during fabrication or at site based on the approved drawings and specifications.

5. TOOLS & MANUAL :

Supplier shall provide one set of tools & manual along with equipment required for operation and maintenance of the plant, duly packed in metallic toolbox with lock.

6. GUARANTEE :

Supplier shall furnish a guarantee for any manufacturing defects and performance of the equipment for defect liability period i.e. one year from the date of commissioning.

7. Maintenance Platform, supports for pipes & cable trays: MS structural supports at every 2.5 mtr length and Platform for maintenance of drive motor/Gear Box to be provided as per actual site condition. Such items shall be paid as per actual quantity installed after JMS.

8. Erection of Equipment: Supplier shall be responsible for unloading of equipment at site near the place of installation, erection of all the equipment supplied by them. Grouting of all foundation bolts shall be the part of erection. Power shall be provided free of cost at nearest point and bidder to tap power with suitable cable, starter etc by the bidder.

9. Electric Power Cable: Supply and laying of aluminium armoured power cable from MMP control panel to individual drive unit is in the scope of bidder. **Main Incoming LT Power supply cable from MCC panel (in plant) to in-coming feeder of the control panel of MMP shall be provided & laid by the bidder.** Bidder has to made necessary arrangement for earthing of their equipment. All earth wires from individual drive unit shall be terminated to the control panel mounted on the skid by bidder. **Earthing from New MCC Cum Control panel of MMP plant shall be in the bidder's scope.** Cabling from control panel to individual drives unit shall be properly clamped on skid frame of the plant.

10. Plant being self-supported, no civil work is required to be carried out by bidder except fixing of equipment leg supports to the floor with suitable anchor fasteners. Pit for dumping weigh hopper shall be provided by the purchaser/client.

11. Purchaser shall provide all the raw materials (salts & minerals) required for commissioning of the plant. However, bidder shall supply first charge of lubricants.

12. Air line with all accessories viz Piping, flanges, valves, FRLs etc from nearest available point in RMG to all consumption points of Mineral Mixture Plant & its FFS machine, if any with suitable supports shall be in the bidder's scope. No new Air Compressor is required to be procured for MMP plant.

13. Bidder shall give training to technical staff of service recipient for day to day operation and maintenance during performance trials.

12.0 LIST OF SUGGESTED MAKES:

The list of suggested makes of items are given below. The bidder shall note and confirm the make proposed by them. Deviations in makes are to be clearly mentioned.

Description	Makes
Key Equipment (Ball Mill, Blender, Silo, conveyors, gates, hoppers etc)	ALFA ENGINEERS/ CREMACH /HEPL/POWER MECH/ NEOTECH/SPECTOM/ CEASPL
Structural Steel	SAIL / TISCO /RINL/IISCO/JSW/JINDAL/APOLLO/VIZAG
Pressure switch / temp switch / Pressure transmitter / temperature transmitter / Thermostat	DANFOSS / SWITZER / PYROTECH / ALTOP / WIKA / AMERICAN SPECIALITIES, USA
Pressure & Temperature Gauge	FIEBIG / H GURU / WAREE / PRICOL
Dual type Pressure / temp gauges	FIEBIG / H GURU / WARREE / PRICOL

Temperature sensors / digital indicator / controller / recorder	YOKOGAWA / TATA HONEYWELL / RADIX / PYROTECH / E&H / EMERSON
Intelligent Motor Protection relay	ABB/ SCHNEIDER / ROCKWELL / SIEMENS.
TTO Printer	MARKEM/Savema/Hellermann/Tyton/ Videojet
Servo Voltage Stabilizer	FUJI/APC/TATA/SERVOTECH
Welding Electrode	ADOR/EQUATOR/D&H/ESAB/ADWANI
PLC for FFS Machine	DELTA/ALLEN Bradley/DANFOSS/ROCKWELL

LT Copper Control Cables	CCI / RPG ASIAN / FINOLEX / FORT GLOSTER / RRKABEL/HAVELLS/POLYCAB
Signal & Instrument cable	LAPP KABEL / RR KABEL / THERMOPAD
PVC Insulated Copper wire (for panel)	FINLOEX / RRKABEL
Power Capacitors	MALDE / MEHER / SIEMENS / EPCOS/ MOMAYA.
Isolating Switches	SIEMENS / L&T
HRC fuses	L&T / SIEMENS
IP 55 boxes for motor isolators, push buttons, junction boxes etc.	HENSEL / HANSU
Pipe-in-pipe earthing	FAST EARTH/ASHLOK
Electronic Load Manager	ENERCON / KRYKARD / L&T
Selector Switch	KAYCEE / SALZER
Cable Glands/Lugs	COMET / EX-PROTECTA / DOWELS / LAPP KABEL / BRACKO
GI "C" Pipes for air.	TATA / JINDAL / KALYANI / MST /APOLLO
NRV for Air Line	INTERVALVE / AUDCO / LEADER
Air lines accessories	SHAVO NORGEN / FESTO / AIRMATIC / LEGRIS / NUCON/AIRMAX/JANATICS

VFD	SIEMENS / ALLEN BRADLEY / DANFOSS / ABB
Electronic Soft Starter	SIEMENS / ALLEN BRADLEY / ABB / SCHNEIDER /DANFOSS.
Voltage / Current / Energy / Power factor Transducer	RISHABH / ENERCON
TEFC Electric Motors & Motor for geared motors	BHARAT BIJLEE / SIEMENS / ABB / CROMPTON / KIRLOSKAR
Geared Motor / Gear Box	PBL/POWER MASTER / RADICON/ SHANTHIGEAR / BONFIGOLI / EURO DRIVES / ROTOMOTIVE/NORD
Air Circuit Breaker	L&T / SIEMENS / ABB / SCHNEIDER
MCCB, MPCB	L&T / SIEMENS / ABB / SCHNEIDER
Contactors	L&T / SIEMENS / ABB / SCHNEIDER
Starter Overload Relays	L&T / SIEMENS / ABB / SCHNEIDER
Timers Electronic	L&T / SIEMENS / ABB / SCHNEIDER

MCBs	SIEMENS/ L&T-HAGER / MDS-LEGRAND / GE
Push Buttons	ESBEE / SIEMENS / GE / VAISHNO / TEKNIC
Analog Ammeter & Voltmeter	RISHABH / IMP / MECO / AE
Digital Energy Meter	ENERCON / L&T / CADEL / AE
Analog Energy Meter	UNIVERSAL / HAVELS / JAIPUR
Power Factor Meter	RISHABH / IMP / MECO / AE
Current Transformer	KAPPA / MECO / AE / IMP / INDCOIL
LT Power Cables	CCI / FORT GLOSTER / HAVELS/ FINOLEX / RRRKABEL/POLYCAB
Portable Stitching Machine	REVO/Stitch-well/Gabber
Weigh-scale	Expert/Avery/Mettler/Sartorius/Endeavour

13.0 LIST OF INDIAN STANDARDS

Material and Sectional Properties

IS 801 : 1975	Code of practice for use of cold formed light gauge steel structural members in general building construction
IS 806 : 1968	Code of practice for use of steel tubes in general building construction
IS 808 : 1989	Dimensions for Hot Rolled Steel Beam, Column, Channel and Angle Sections
IS 811 : 1987	Cold formed light gauge structural steel sections
IS 816 : 1969	Code of practice for use of metal arc welding for general construction in mild steel
IS 1149 : 1982	High tensile steel rivet bars for structural purposes
IS 1161 : 1998	Steel Tubes for Structural Purposes - Specification
IS 1239 : Part 1 : 1990	Mild Steel Tubes, Tubular and Other Wrought Steel Fittings - Specification - Part 1 : Mild Steel Tubes
IS 1239 : Part 2 : 1992	Mild steel tubes, tubular and other wrought steel fittings, Part 2 Mild steel tubular and other wrought steel pipe fittings
IS 1363 : 2002	Hexagon head bolts, screws and nuts for product grade C
IS 1364 : 2002	Hexagon head bolts, screws and nuts for product grades A & B
IS 1730	Mild steel plates, strips, flats etc
IS 1977 : 1996	Low Tensile Structural Steels - Specification
IS 3757 : 1985	Specification for high strength Structural Bolts
IS 3954	Mild steel channel sections
IS 4180 : 1967	Code of practice for corrosion protection of light gauge steel sections used in building

IS 4923 : 1997	Hollow steel sections for structural use
IS-2062 : 2006	Steel for general structural purposes specification
IS-4000 : 1992	High strength bolts in steel structures code of practice
IS-7215 : 1974	Tolerances for fabrication of steel structures
IS-7598 : 1990	Classification of steels
IS 277 : 2003	Galvanized Steel Sheets, (Plain and Corrugated) – Specification
IS 432 : Part 1 : 1982	Specification for mild steel and medium tensile steel bars and hard-drawn steel wire for concrete reinforcement: Part I Mild steel and medium tensile steel bars
IS 432 : Part 2 : 1982	Specification for mild steel and medium tensile steel bars and hard-drawn steel wire for concrete reinforcement: Part 2 Hard-drawn steel wire
IS 14246 : 1995	Continuously pre-painted galvanized steel sheets & coils

Loads

IS 875 : Part 1 : 1987	Code of practice for design loads (other than earthquake)for buildings and structures Part 1 Dead loads - Unit weights of building material and stored materials
IS 875 : Part 2 : 1987	Code of practice for design loads (other than earthquake) for buildings and structures: Part 2 Imposed loads
IS 875 : Part 3 : 1987	Code of Practice for Design Loads (Other than Earthquake) for Buildings and Structures - Part 3 : Wind Loads
IS 875 : Part 4 : 1987	Code of practice for design loads (other than earthquake) for buildings and structures Part 4 Snow loads
IS 875 : Part 5 : 1987	Code of practice for design loads (other than earthquake) for buildings and structures Part 5 Special loads and load combinations
IS 1893 : 1984	Criteria for Earthquake Resistant Design of Structures
IS 1893 : Part 1 : 2002	Criteria for Earthquake Resistant Design of Structures - Part 1 : General Provisions and Buildings

Design

IS 800 : 2007	Code of practice for general construction in steel
IS 3414 : 1968	Code of Practice for Design and Installation of Joints in Buildings
IS 3935 : 1966	Code of practice for composite construction
IS 4326 : 1993	Code of practice for earthquake resistant design and construction of buildings

IS 9172 : 1979	Recommended design practice for corrosion prevention of steel structures
IS 12843 : 1989	Tolerances for erection of steel structures
IS 12457 : 1988	Code of practice for evaluation repairs and acceptance limits of surface defects in steel plates, and wide flats
IS-8081 : 1976	Specification for slotted Sections
IS 1038 :1983	Specification for steel doors, windows & ventilators

Special Publication Series

SP 1:-1967	Comparison of Indian and Overseas Standards on Aluminium Alloy Castings
SP 2 : 1982	Comparison of Indian and Overseas Basic Sizes for Sheet and Wire
SP 6 : Part 2 : 1964	Handbook for structural engineers - Structural steel sections
SP 6 : Part 3 : 1962	Handbook Structural Engineers - Part 3 : Steel Columns and Struts
SP 6: Part 4: 1969	ISI Handbook for Structural Engineers 4. Use of High Strength Friction Grip Bolts
SP 6 : Part 5 : 1980	Handbook for structural engineers - Cold-formed, light gauge steel structures
SP 6 : Part 6 : 1972	Handbook for structural engineers - Application of plastic theory in design of steel structures
SP 6 : Part 7 : 1972	ISI Handbook for Structural Engineers - Part 7 : Simple Welded Girders
SP 14 : 1976	Index to Steel Designations
SP 16 : 1980	Design Aids for Reinforced Concrete to IS 456 : 1978
SP 17 : 1979	Index to IS 1956 Glossary of Terms Relating to Iron and Steel
SP 24 (S and T) : 1983	Explanatory Handbook on Indian Standard Code of Practice for Plain and Reinforced Concrete
SP 38 (S and T) : 1987	Handbook of Typified Designs for Structures with Steel Roof Trusses (with and without Cranes) (Based on is Codes)
SP 40 (S and T) : 1987	Handbook on Structures with Steel Portal Frames
SP 47 (S and T) : 1988	Handbook on Structures with Steel Lattice Portal Frames (Without Cranes)

14.0 LIST OF MAJOR ITEM PROPOSED.

A – DESIGN & SUPPLY:

S No	Description	Qty
------	-------------	-----

1	Ball Mill 200 kg/batch (SS-304) with drive unit (500 ltr), Structural supports complete as per specification	1 set
2.	MS Weigh Hopper with load cell & Magnetic grill (750 mm X 750 mm)	1 set
3.	Intake Screw Conveyor- 4 TPH (MS), approx. 3.8 mtr long (inclined) with drive unit as per specifications	1 set
4.	Ribbon Mixer: SS-304 (Cap – 750 ltr) complete as per specifications & drive unit and MS supports	1 set
5.	Silo feed Screw conveyor complete as per specifications & drive unit (MS), Capacity-4 TPH, approx. 4.2 mtr long(inclined)	1 set
6.	Storage Silo (SS-304) 1000 kg with MS steel structural Leg supports	1 set
7.	Bin vibrators 3 nos (electrically operated) with panel for Bal Mill and Silo	2 set
8.	Discharge Screw Conveyor with drive unit (MS), Capacity- 3 TPH, approx. 5 mtr long (inclined)	1 set
9.	Steel Structure for platforms, supports, railings etc	1000 Kg
10.	MCC cum control panel as per specifications	1 No
11.	Electrical Cabling & accessories with all outgoing cables, cable trays, conduits, earthing materials	1 lot
12.	Incoming Aluminium LT power cable to MCC cum Control panel (3.5 X 50 mm ²)	100 RM
13.	100kg platform Weigh-scale (electronic) SS-304 TOP and Indicator	1 set
14.	Hand operated Stitching Machine	1 set
15.	FFS machine (1.5 TPH with 1 Kg pouch) for packing of 1 kg (25 PPM), 2 kg (15 PPM) and 5 kg (10 PPM) pouches with TTO printer, weigh-scale and Pouch take-up conveyor (approx. 2 mtr long-belt type)	1 Set
16.	Pneumatic Two way Flap, Pneumatic Slide gate/Rotary Valve, Manual Chain Gate and ss-304 Product pipe	1 Lot
17.	Air line piping, Fittings, valves and Accessories	1 Lot
18.	Spares for one year operation with essential tools	1 set

B – INSTALLATION, TESING & COMMISSIONING:

S No	Description	Qty
1	Ball Mill 200 kg/batch (SS-304) with drive unit (500 ltr), Structural supports complete as per specification	1 set
2.	MS Weigh Hopper with Load Cell & Magnetic grill (750 mm X 750 mm)	1 set
3.	Intake Screw Conveyor- 4 TPH (MS), approx. 3.8 mtr long (inclined) with drive unit as per specifications	1 set

4.	Ribbon Mixer: SS-304 (Cap -1000 ltr) complete as per specifications & drive unit and MS supports	1 set
5.	Silo feed conveyor complete as per specifications & drive unit (MS), Capacity-4 TPH, approx. 4.2 mtr long(inclined)	1 set
6.	Storage Silo (SS-304) 1000 kg with MS steel structural Leg supports complete	1 set
7.	Bin vibrators 3 nos (electrically operated) with panel for Ball Mill & Storage Silo	2 set
8.	Discharge Screw Conveyor with drive unit (MS), Capacity-3 TPH, approx. 5 mtr long (inclined)	1 set
9.	Steel Structure for platforms, supports, railings etc	1000 Kg
10.	MCC cum control panel as per specifications	1 No
11.	Electrical Cabling & accessories with all outgoing cables, cable trays, conduits, earthing materials	1 lot
12.	Incoming Aluminium LT power cable to MCC cum Control panel (3.5 X 50 mm ²)	100 RM
13.	FFS machine (1.5 TPH with 1 Kg pouch) for packing of 1 kg (25 PPM), 2 kg (15 PPM) and 5 kg (10 PPM) pouches with TTO printer, weigh-scale and Pouch take-up conveyor (approx. 2 mtr long-belt type)	1 Set
14.	Pneumatic Two way Flap, Pneumatic Slide gate/Rotary Valve, Manual Chain Gate and SS-304 Product pipe	1 Lot
15.	Air line piping, Fittings, valves and Accessories	1 Lot
16.	100kg platform Weigh-scale (electronic) SS-304 TOP and Indicator	1 set
17.	Hand operated Stitching Machine	1 set
18.	Statutory Approval for Weigh Scales and FFS machine	1 Job

Section 5 Price Schedule

Item Description (Short)	Qty	UoM	Unit Rate (Rs.) Excl. GST	Applicable GST %	Total Amount Excl. GST (Rs.)	Total Amount with GST (Rs.)
BALL MILL CAPACITY - 200 kg/batch (SS-304) with drive unit (500 ltr), Structural supports complete as per specification	1	NO.				
INTAKE SCREW CONVEYOR - 4 TPH (MS), 3.8 mtr long (inclined) with drive unit as per specifications	1	NO.				
RIBBON BLENDER SS-304 (Cap -750 ltr) complete as per specifications & drive unit and MS supports	1	NO.				
SILO FEED SCREW (MS) Capacity-4 TPH, 4.2 mtr long(inclined) complete as per specifications & drive unit	1	NO.				
SILO Storage Silo (SS-304) with MS Structural Support and sensors, Capacity: 1000 kg complete as per Specifications.	1	NO.				
SILO DISCHARGE SCREW Screw Conveyor (MS) with drive unit (VFD), Capacity-3 TPH, 5 mtr long (inclined) along with structural support as per specifications.	1	NO.				
BIN VIBRATOR-3 NOS WITH PANEL (electrically operated) with panel for Storage Silo	2	NO.				
CONTROL PANEL MCC panel for complete plant as per specifications	1	NO.				
SPARES FOR MINERAL MIXTURE PLANT for one year operation with essential tools	1	SET				
PORTABLE BAG STITCHING MACHINE (hand operated)	1	NO.				
AUTOMATIC FORM, FILL & SEALING MACHINE 25 PPM Capacity - 1.5 TPH with 1 Kg pouch, for packing of 1 kg (25 PPM), 2 kg (15 PPM) and 5 kg (10 PPM) pouches with TTO	1	NO.				

printer and Pouch take-up conveyor (approx. 3 mtr long-belt type)						
STEEL STRUCTURE & CHEQUERED PLATE FOR MAINTENANCE PLATFORM, PIPE & CABLE TRAY SUPPORTS, RAILING ETC	1000	kg				
RAW MATERIAL DUMPING HOPPER - MS WEIGH HOPPER cum dumping Hopper with Magnetic grill (750 mm X 750 mm)	1	NO.				
ELECTRICAL CABLING AND ACCESSORIES with all outgoing cables, cable trays, conduits, earthing materials	1	LOT				
COMPRESSED AIR PIPES, VALVES & FITTINGS WITH SOLENOID VALVES AND ACCESSORIES FOR AUTO OPERATION OF GATES/FLAPS BELOW MIXER & CONVEYORS	1	LOT				
ELECTRONIC WEIGH SCALE, 100 KG with SS-304 TOP and Digital Indicator	1	NO.				
MANUALLY OPERATED CHAIN GATE , PNEUMATIC SLIDE GATES, PNEUMATIC TWO WAY FLAPS, ROTARY VALVES AND SS-304 PRODUCT PIPE AS PER PLANT REQUIREMENT.	1	LOT				
ALUMINIUM CONDUCTOR, PVC INSULATED ARMOURED CABLE - 1100 VOLTS, 3..5X50 SQMM FROM PLANT MCC PANEL FEEDER TO MINERAL MIXTURE PLANT MCC PANEL - LT power cable to MCC cum Control panel (3.5 X 50 mm2)	100	m				
BALL MILL 200 kg/batch (SS-304) with drive unit (500 ltr), Structural supports complete as per specification	1	NO.				
INTAKE SCREW CONVEYOR - 4 TPH (MS), approx. 3.8 mtr long (inclined) with drive unit as per specifications	1	NO.				
RIBBON BLENDER SS-304 (Cap -750 ltr) complete as per specifications & drive unit and MS supports	1	NO.				
SILLO FEED SCREW Screw conveyor complete as per specifications & drive	1	NO.				

unit (MS), Capacity-4 TPH, approx. 4.2 mtr long(inclined)						
SILO - Storage Silo (SS-304) with MSstructural Support and sensors, Capacity: 1000 kg complete as per Specifications.	1	NO.				
SILO DISCHARGE SCREW - MS, with drive unit (VFD), Capacity-3 TPH, approx. 5 mtr long (inclined) along with structural steel supports as per specifications	1	NO.				
BIN VIBRATOR-3 NOS WITH PANEL for Storage Silo	2	NO.				
CONTROL PANEL MCC cum control panel as per specifications	1	NO.				
AUTOMATIC FORM, FILL & SEALING MACHINE 25 PPM FFS machine (1.5 TPH with 1 Kg pouch) for packing of 1 kg (25 PPM), 2 kg (15 PPM) and 5 kg (10 PPM) pouches with TTO printer and Pouch take-up conveyor (approx. 3 mtr long-belt type)	1	NO.				
PORTABLE BAG STITCHING MACHINE	1	NO.				
STEEL STRUCTURE & CHEQUERED PLATE FOR MAINTENANCE PLATFORM, PIPE & CABLE TRAY SUPPORTS, RAILING ETC	1000	kg				
RAW MATERIAL DUMPING HOPPER - MS WEIGH HOPPER cum dumping Hopper with Magnetic grill (750 mm X 750 mm)	1	NO.				
ELECTRICAL CABLING AND ACCESSORIES with all outgoing cables, cable trays, conduits, earthing materials	1	LOT				
COMPRESSED AIR PIPES, VALVES & FITTINGS WITH SOLENOID VALVES AND ACCESSORIES FOR AUTO OPERATION OF GATES/FLAPS BELOW MIXER & CONVEYORS	1	LOT				
ELECTRONIC WEIGH SCALE, 100 KG with SS-304 TOP and Digital Indicator	1	NO.				
MANUALLY OPERATED CHAIN GATE , PNEUMATIC SLIDE GATES, PNEUMATIC TWO WAY FLAPS, ROTARY VALVES AND SS-304 PRODUCT PIPE AS PER PLANT REQUIREMENT.	1	LOT				

ALUMINIUM CONDUCTOR, PVC INSULATED ARMOURED CABLE - 1100 VOLTS, 3..5X50 SQMM FROM PLANT MCC PANEL FEEDER TO MINERAL MIXTURE PLANT MCC PANEL - LT power cable to MCC cum Control panel (3.5 X 50 mm2)	100	m				
STATUTORY APPROVAL for Weigh Scale and FFS machine	1	JOB				

Bidder should quote rate FOR all over India basis.

Section 6 Form of Bid

(Bidders are requested to submit the FORM OF BID as per the Format given in this Section, filling all the blank spaces.)

Date : _____

IFB Ref: **NDS/CF/01/ Mineral Mixture/2526/Jan/01**

**TO: NDDDB Dairy Services,
NDDDB House,
Safdarjung Enclave,
New Delhi, Southwest Delhi, Delhi, 110029
011-4988300/49883088/Mob7092922421
Contact No. 88534 91248**

Having examined the Conditions of Contract, Technical Specifications and the Drawings included (if any) in or referred to in the Bidding Documents including Addenda/Corrigendum Nos. (Insert Numbers), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver Goods and Services including installation and commissioning as detailed in the price bid, in conformity with technical specifications and drawings (except to the extent of deviation statement furnished in our bid) and the Conditions of Contract as mentioned in or referred to in the said Bidding Document for the sum as may be ascertained in accordance with the Bid Prices and made part of this bid and the said conditions.

Our acceptance to all the conditions of the Bidding Document in this bid form shall persist over any other terms and conditions, if any, given in our bid.

We undertake, if our bid is accepted, to commence and complete delivery of all the goods and Services including installation and commissioning as specified in the Schedule of Requirements of the Bid Document, from the date of receipt of your Purchase Order / Notification of Award / Letter of Credit.

If our bid is accepted, we will obtain the bank guarantees as per the conditions of the Contract for the due performance of the Contract.

We agree to abide by this bid for the period of 120 days from the date fixed for bid opening as per the Instruction to Bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your Purchase Order / notification of award, shall constitute a binding Contract between us.

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

Dated this _____ day of _____ 20__.

Signature

(In the Capacity of)

Duly Authorized to sign bid for and on behalf of

(Name & Address of Bidder) : _____

Name of Witness : _____

Signature : _____ Address : _____

Section 7 DEVIATION STATEMENT FORMS

TECHNICAL DEVIATION STATEMENT

FORM PART-A

- (1) The following are the particulars of deviations from the requirements of the tender specifications:

CLAUSE	DEVIATION	REMARKS (Including justification)
--------	-----------	--------------------------------------

The technical specifications furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Dated:

Signature and seal of the
Manufacturer / Bidder

NOTE:

Where there is no deviation, the statement should be returned duly signed with an endorsement indication "**NO DEVIATIONS**"

Section 8 BIDDING TERMS DEVIATION STATEMENT
FORM PART-B

(2) The following are the particulars of deviations from the requirements of the bidding conditions / terms:

CLAUSE	DEVIATION	REMARKS (Including justification)
--------	-----------	--------------------------------------

Dated:

Signature and seal of the
Manufacturer / Bidder

NOTE:

Where there is no deviation, the statement should be returned duly signed with an endorsement indication "**NO DEVIATIONS**"

Section 9 Form of Bank Guarantee for Performance Security

[On the Non-judicial stamp paper minimum Rs.100/ or as per the Stamp Act of Local State Government]

Bank Guarantee No.

Date:

This deed of performance guarantee made this _____ day of 20__ (Two thousand) by (Name and address of the Bank) (herein referred to as the Bank) which expression shall unless repugnant to the context and meaning thereof includes its legal representatives, successors and assignees and the National Dairy Development Board Dairy Services (hereinafter referred to as the Purchaser which expression shall unless repugnant to the context and meaning thereof include its legal representative, successors and assignees.

Whereas, Purchaser / its clients has awarded a Contract and Purchase order bearing No _____ dated _____ on M/s. _____ (name and address of the party)(hereinafter referred to as the 'Supplier/ Contractor') for the construction/ supply/ supply and erection and commissioning of _____ .

And whereas, the Supplier/ Contractor has agreed to submit a performance guarantee in the form of a Bank Guarantee to the Purchaser in terms and conditions of the Bidding Document and the Contract which will be kept valid upto ___ calendar months from the date of Bank Guarantee (the period should be till end of warranty/ defect liability period). And whereas, the Bank and its duly constituted agent and officer has already read and understood the contract made between the Purchaser and the Supplier/ Contractor.

In consideration of the Purchaser having agreed to award the contract/ purchase order on the Supplier/ Contractor, we _____ (name of the Bank), do hereby guarantee, undertake, promise and agree to with Purchaser , its legal representatives, successors and assignees that the within named (name of the Supplier/ Contractor) their legal representatives and assignees will faithfully perform and fulfill everything within the Bidding Document and the Contract/Purchase order on their part to be performed or fulfilled at the time (time being the essence of the contract)and in the manner therein provided, do all obligations thereunder and we further undertake and guarantee to make payment to the Purchaser of Rs. _____(Rupees _____ only) being the guaranteed amount, without any demur in case the Supplier/ Contractor, their legal representatives and assignees do not faithfully perform and fulfil everything within the Bidding Document and the Contract/ Purchase order on their part to be performed or fulfilled, at the time and in the manner therein provided and do not willfully and promptly do all obligations thereunder.

In case, the Supplier/ Contractor fails to perform or fulfil the Contract/ Purchase Order as per the terms and conditions agreed upon, the Purchaser is entitled to demand an amount equal to Rs. ----- from the Supplier/ Contractor and the demand made by the Purchaser by itself will be conclusive evidence and proof that the Supplier/ Contractor has failed to perform or fulfil his obligations and neither the Supplier/ Contractor nor the Bank will be entitled to raise any dispute regarding the reasons for the failure of performance or fulfilment, on any ground.

We, (name of the Bank), do hereby undertake to pay amount equal to Rs. -----, being the amount due and payable under this guarantee without any demur, merely on a demand from the Purchaser which has to be served on us before the expiry date of Bank Guarantee i.e. _____ stating that the amount claimed is due by way of non-performance of the contractual obligations as aforesaid by the Supplier/ Contractor or by reason of the Supplier/ Contractor's failure to perform the said contractual commitments/ Purchase Order, 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. --- ----- (Rupees _____ only) being the full amount guaranteed.

We, (name of the Bank), further, agree that the performance guarantee herein contained shall remain in full force and effect for a period of ____ calendar months from the date of Bank guarantee (the period should be till end of warranty/ defect liability period) and till the Purchaser certifies that the terms and conditions of the said contract/ purchase order have been fully and properly carried out by the said Supplier/ Contractor and accordingly discharge the guarantee, unless a demand or claim under this guarantee is made on us in writing by the Purchaser on or before _____, we shall be discharged from all liabilities under this performance guarantee thereafter.

We, (name of the Bank), further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bidding Document and the Contract/Purchase order or to extend the time of performance by the said Supplier/ Contractor from time to time or postpone for any time or from time to time and any of the power exercisable by the Purchasers against the Supplier/ Contractor and to forbear or enforce any of the terms and conditions relating to the said Bidding Document and the Contract/Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Supplier/ Contractor, or for any forbearance, act or omission on the part of the Purchaser to the said Supplier/ Contractor by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

This guarantee shall be in addition to and without prejudice to any other securities or remedies which the Purchaser may have or hereafter possess in respect of the works executed or intended to be executed/ goods supplied or intended to be supplied and the Purchaser shall be under no obligation to marshal in favour of the Bank any such securities or asset that the Purchaser may be entitled to receiving or have a claim upon and the Purchaser at its absolute discretion may vary, exchange, renew, modify or refuse to complete to enforce or assign any security or instrument.

The Bank agrees that the amount hereby guaranteed shall be due and payable to the Purchaser on serving us with a notice before expiry of bank guarantee, requiring the payment of the amount and such notice shall be deemed to have been served on the Bank either by actual delivery thereof to the Bank or by dispatch thereof to the Bank by Registered Post at the address of the Bank.

In order to give full effect to the provisions of this guarantee the Bank hereby waives all rights inconsistent with the above provisions and which the Bank might otherwise as a guarantor be entitled to claim and enforce.

We, _____, undertake to renew the Bank Guarantee provided the request for renewal is made by the Supplier/ Contractor before the expiry of Bank Guarantee.

We, _____, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Purchaser in writing and the guarantee shall be a continuous and irrevocable guarantee upto a sum of Rs. _____ (Rupees _____ only)

Notwithstanding anything stated herein before: (i) our liability under this guarantee is restricted to Rs. _____ (ii) the guarantee shall remain in force till ___20___ and (iii) The Bank is liable to pay the guarantee amount or any part thereof under this bank guarantee only if the Purchaser serves upon the Bank a written claim or demand on or before _____.

Place:
Date:

(SIGNATURE)
SEAL
CODE NO.

NOTE:

- 1 SUPPLIER/ CONTRACTORS SHOULD ENSURE THAT SEAL AND CODE NO. OF THE SIGNATORY IS PUT BY THE BANKERS, BEFORE SUBMISSION OF THE BANK GUARANTEES.
- 2 THE VALUE OF STAMP DUTY SHOULD BE AS PER LATEST STAMP ACT OF LOCAL STATE GOVERNMENT FROM WHERE THE BANK GUARANTEE ISSUED.
3. **Bank should confirm the bank guarantee through “Structured Financial Messaging System (SFMS)”,. Bank account details of beneficiary are as follows:**

Beneficiary Name	
Bank Account No.	
IFSC code	
Beneficiary Bank Name	
Beneficiary Bank Address	

Bank charges, if any, on this account will be borne by the beneficiary

If the issuing bank is not having the SFMS facility, the bank guarantee needs to be confirmed by its controlling office i.e. Administrative / Regional / Zonal Office to the following address

Beneficiary Name	
Beneficiary Address	

Kindly note that necessary action on the Bank Guarantee will be taken by Purchaser only upon receipt of confirmation in either one of the modes as prescribed above.

Section 10 Pre-Bid Undertaking – Service Commitment, Security Deposit

To,

NDDB Dairy Services,
NDDB House,
Safdarjung Enclave,
New Delhi, Southwest Delhi, Delhi, 110029
011-4988300/49883088/Mob7092922421
Contact No. 88534 91248

Subject: Pre-Bid Undertaking – Service Commitment, Security Deposit & Blacklisting Terms

Dear Sir/Madam,

We, [Name of the Bidder], having our registered office at [Bidder's Address], hereby submit this undertaking as part of our bid in response to Tender No.

NDS/CF/01/ Mineral Mixture/2526/Jan/01

We understand that this undertaking does not confer any assurance or guarantee of order placement by [Your Organization Name], and is being submitted as part of our compliance with the bid conditions.

In the event that we are awarded the contract, we hereby agree and undertake the following:

Service Commitment

If awarded the order, we shall provide installation, commissioning, warranty support, post-sale services, maintenance, and fulfill all other service obligations as per the tender terms and Purchase Order conditions.

Security Deposit

Upon award of the contract, we undertake to deposit a Security Deposit of [10% of PO value] in the form of Bank Guarantee into the designated account of [Purchaser], as a commitment towards fulfilling the service obligations.

Forfeiture & Blacklisting Clause

We further agree that if, after issuance of the Purchase Order: if

- We fail to deliver the agreed services,
- Delay, disrupt, or default on service commitments,
- Breach any of the terms specified in the contract,

Then Purchaser/Purchaser shall have the absolute right to:

Forfeit the Security Deposit, and Blacklist us from participating in future tenders/procurements for a period deemed appropriate.

Declaration

Participation in the demonstration shall be deemed as acceptance of this condition, and the bidder shall not have any right to dispute the decisions arising from the demonstration outcome.

This undertaking is submitted as part of the bid compliance and will become binding if we are awarded the contract. We accept that this is essential to ensure service reliability and protect the interests of Purchaser.

I/We understand that any attempt to influence the evaluation process, either directly or indirectly, shall lead to immediate rejection of our bid/award of contract and may also result in our disqualification and/or debarment from participation in future tenders issued by your and your associated organization.

I/We undertake to abide by the integrity, fairness, and transparency principles set out by the procuring authority and relevant procurement guidelines.

Section 11 Undertaking from Supplier on GST

With reference to the Tender No **NDS/CF/01/ Mineral Mixture/2526/Jan/01**

We, _____ (name of supplier), having our registered office at _____, hereby undertake as under:

1. We acknowledge that the GST Council may revise the GST slabs/rates for various items, effective from time to time.
2. We agree that the **unit basic rate** quoted/offered by us shall remain unchanged.
- 3. We agreed that price will be evaluated on including GST basis.**
4. We further undertake to apply and charge GST strictly as per the **prevailing applicable GST rates** notified by the Government of India.
5. Payment shall be released by NDS accordingly, i.e., on the basis of the fixed unit basic rate and the applicable revised GST rate.
6. We confirm that no additional claim shall be made by us on account of such revisions in GST rates.

This undertaking shall be binding on us for all supplies made to NDS until further notice.

Date: _____

Place: _____

Seal & Signature of Supplier
(Name & Designation)