



**District Education Officer**  
**Angul**

**Expression of Interest (Eol)**

**Bid Documents**  
**for**  
**Selection of Agency for Supply and Installation of Equipment**  
**for Central Kitchen to be Established at Talcher &**  
**Chhendipada Block of Angul District out of DMF Fund.**

**Important Dates**

1. **Availability of Bid Documents: 05.10.2021 to 06.11.2021 (5.00 P.M.)**
2. **Last date for Receipt of Bid Documents: 06.11.2021 up to 5.00 P.M.**
3. **Opening of Bid Documents : Will be communicated latter**
4. **Opening of Bid Documents : Will be communicated latter**

**O/o –District Education Officer,**  
**Amalapada, Angul, Odisha, PIN -759122**  
**Mob. No.: 8093663085**  
**E – mail ID: deoangul02@gmail.com**

## CONTENT

1. Fact Sheet .....	2
2. Proposal .....	3
3. Background Information .....	3
4. Instruction to Bidder .....	3
4.1. General .....	3
4.2. Scope of Work .....	3
4.3. Compliant Proposals/ Completeness of Tender Paper .....	3
4.4. Key Requirements of the Bid .....	3
4.4.1. Right to Terminate the Process .....	4
4.4.2. Cost of Tender Paper .....	4
4.4.3. Earnest Money Deposit (EMD) .....	4
4.4.4. Additional Performance Security .....	5
4.4.5. Submission of Proposals .....	5
4.4.6. Authentication of Bids .....	5
4.4.7. Queries / Clarification .....	5
4.5. Preparation and Submission of Tender Paper .....	6
4.5.1. Preparation Costs .....	6
4.5.2. Language .....	6
4.5.3. Venue & Deadline for Submission of Tender Paper .....	7
4.5.4. Late Bids .....	7
4.6. Evaluation Process .....	7
4.6.1. Tender Opening .....	8
4.6.2. Tender Validity .....	8
4.6.3. Tender Evaluation .....	8
5. Criteria for Evaluation .....	8
5.1. Eligibility Criteria .....	9
5.2. Technical Evaluation .....	10
5.3. Financial Evaluation .....	11
6. Appointment of Service Provider Agency .....	11
6.1. Award Criteria .....	11
6.2. Right to Accept Any Proposal and To Reject Any or All Proposal(s) .....	11
6.3. Notification of Award .....	11
6.4. Contract Finalization and Award .....	11
6.5. Signing of Agreement .....	11
6.6. Failure to Agree with the Terms and Conditions of the Tender Paper .....	11
7. Terms of Reference .....	12
7.1. Size Specification .....	12
7.2. Installation Modalities .....	12
7.3. Payment Terms .....	12
7.4. Other Terms and Conditions .....	12
7.5. Force Majeure .....	12
7.6. Arbitration .....	13
7.7. Legal Jurisdiction .....	13
Format - 1 : Minimum Eligibility / Technical Bid .....	14
Format - 2 : Affidavit of not be under ineligibility .....	15
Format - 3 : Technical Specification Confirmation Sheet .....	16
Format - 4 : Details of work undertaken / experiences .....	17
Format for Bid Letter (Financial Bid) .....	18
Format for Financial Bid (Talcher Block) .....	19
Format for Financial Bid (Chhendipada Block) .....	20
Annexure - I : Technical Specification of Equipment & Services (Talcher Block) .....	21 - 28
Annexure - II : Technical Specification of Equipment & Services (Chhendipada Block) .....	29 - 36

1. **FACT SHEETS:**

**THIS FACT SHEET COMPRISES IMPORTANT FACTUAL DATA ON THE TENDER FOR QUICK REFERENCE OF THE BIDDER RELATING TO SUPPLY AND INSTALLATION OF EQUIPMENTS FOR CENTRAL KITCHEN TO BE ESTABLISHED AT TALCHER & CHHENDIPADA BLOCK OF ANGUL DISTRICT**

<b>Clause Reference</b>	<b>Topic</b>
Method of Selection	Two Bid methods shall be used to select the AGENCY for Supply and Installation of Equipment for Central Kitchen to be Established at Talcher & Chhendipada Block of Angul District out of DMF Fund. The Bidder has to submit the bid in two separate sealed envelopes marked Technical & Financial Bid. Financial evaluation will be done for only those bidders who satisfy technical bid criteria. Technically qualified bidder, who quotes the least price, will be selected as final agency for the assignment.
Tender Fee	EoI can be downloaded from the district website, i.e. <a href="http://www.angul.nic.in">www.angul.nic.in</a> . The bidders are required to submit the Bid Document Fee of Rs.5000/- (Rupees five thousand) only in shape of Demand Draft in favour of the District Education Officer, Angul, payable at Angul from any of the Nationalized/scheduled bank along with the Proposal.
Earnest Money Deposit (EMD)	Earnest Money Deposit of Rs.2,00,000/- (Rupees two lakh) only in favour of the District Education Officer, Angul in shape of Demand Draft should be payable at Angul from any nationalized/scheduled bank must accompany with the technical bid.
Scope of Work	The selected agency has to Supply and Install the Equipment for Central Kitchen to be Established at Talcher & Chhendipada Block of Angul District as per the specification given in the Tender Paper. However, bidders may apply for single block / site, instead of both.
Project Timeline	As specified in the Tender / Bid documents.
Language of Bid	The proposal should be prepared by the Bidder in English language only.
Currency of the Bid	The bidder should quote price in Indian Rupees only. The offered price must be exclusive of taxes and duties. The taxes as appropriate & applicable would be paid at the prevalent rates.
Validity Period	Proposals/ Bids must remain valid minimum for 180 days from the date of submission.

<p>Bid to be Submitted to</p>	<p>The proposal must be submitted to: The, District Education Officer, Amalapada, Angul, Odisha, PIN - 759122 through registered post or speed post only. No other mode of submission is allowed.</p> <p>The tender paper, technical bid, tender fees and EMD shall be put in a sealed envelope with superscription as "Technical Bid". The price bid shall be put in a separate sealed envelope with superscription as "Price Bid". Both the envelopes shall be put in a separate big envelope with superscription as "Selection of Agency for Supply and Installation of Equipment for Central Kitchen to be Established at Talcher &amp; Chhendipada Block of Angul District.</p>
-------------------------------	--

## 2. PROPOSAL

Sealed tenders are invited from reputed and qualified agency for the assignment as defined under the Terms of Reference Section. This invitation to bid is open to all Bidders meeting the minimum eligibility criteria as mentioned in subsequent section of this EoI Document.

## 3. BACKGROUND INFORMATION

Central kitchen will provide food for primary and upper primary level students in Angul District. This will be a centralised cooking unit in every block. As a result teachers will free from the burden of MDM cooking and will be more focused on teaching, which will increase the quality of teaching as well. Uniformity in standard of food and nutritional value will be maintained. It also provides employment to members of block level federation as user group.

## 4. INSTRUCTION TO BIDDER

### 4.1. General

- a) While sincere effort has been made to provide comprehensive and accurate background information, requirements and specifications, Bidders must form their own conclusions about the support needed to meet the requirements based on their past experience.
- b) All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by the District Education Officer, Angul.

### 4.2. Scope of Work:

Supply and installation of Equipment for Central Kitchen to be Established at Talcher & Chhendipada Block of Angul District as per the details specified in the ToR. However, bidders may apply for a single block/site instead of both.

### 4.3. Compliant Proposals/ Completeness of Tender Paper

- i. Submission of the bid shall be deemed to have been done after careful study and examination of the EoI document with full understanding of its implications.

- ii. Failure to comply with the requirements of this paragraph or any clause of the EoI may render non-compliant and the proposal may be rejected. The Bidders must:
- include all documentation specified in this EoI;
  - Follow the format prescribed in this EoI and respond to each element in the order as set out in this EoI.
  - Comply with all requirements as set out within this EoI.

#### **4.4. Key Requirements of the Bid**

##### **4.4.1. Right to Terminate the Process**

- i. The District Education Officer, Angul may terminate the EoI process at any time and without assigning any reason thereof. The authority makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- ii. The submission of tender paper does not constitute an offer by the District Education Officer, Angul. The bidder's participation in this process may result in selecting the bidder to engage towards execution of the contract.

##### **4.4.2. Cost of Tender Paper**

- i. EoI / Bid document can be downloaded from the District Website [www.angul.nic.in](http://www.angul.nic.in). The bidders are required to submit the non-refundable tender document fee of Rs. 5,000/- (Rupees five thousand) only in shape of an Demand Draft in favour of the District Education Officer, Angul and payable at Angul from any nationalized/ scheduled bank along with the Tender Paper. Proposals received without or with inadequate fees shall be rejected.

##### **4.4.3. Earnest Money Deposit (EMD)**

- a) Bidders shall submit, along with their Technical Bids, EMD of Rs.2,00,000/- (Rupee two lakh) only in the shape of Demand Draft in favour of the District Education Officer, Angul from any nationalized / scheduled bank.
- b) EMD of all unsuccessful bidders would be refunded within 180 days of the bidder being notified as unsuccessful. The EMD, for the amount mentioned above, of successful bidder would be kept as part of Performance Guarantee till acceptance of final deliverable along with the additional performance security to be deposited by successful bidder.
- c) The tender paper submitted without EMD, mentioned above, will be summarily rejected.
- d) The EMD may be forfeited:
  - If a bidder withdraws its bid during the period of bid validity.
  - In case of a successful bidder, if the bidder fails to sign the contract in accordance with this tender paper.

- If found to have a record of poor performance such as having abandoned work, having been black-listed, having inordinately delayed completion and having faced Commercial failures etc.

#### 4.4.4. Additional Performance Security by Successful Bidder:

The successful bidder has to submit an additional performance security worth Rs.1,00,000/- (Rupees one lakh) in shape of 3 years TDR / FD duly pledged in favour of the District Education Officer, Angul for each block / site.

#### 4.4.5. Submission of Proposals

- a) The bidders shall submit their tender paper as per the format given in this tender paper in the following manner
  - Technical Bid - in first envelope [Tender Paper, Technical Bid, EMD, Cost of Tender Paper]
  - Price Bid - in second envelope
- b) The response to Technical Bid and Price Bid (As mentioned in previous paragraph) should be covered in separate sealed envelopes super-scribing "Technical Bid" and "Price Bid" respectively.
- c) Please Note that Prices shall not be indicated in the Technical Bid and shall only be indicated in the Price Bid.

The two envelopes containing copies of Technical Bid and Price Bid shall be put in another single sealed envelope clearly marked as "Proposal for Supply and Installation of Equipment for Central Kitchen to be Established at Talcher & Chhendipada Block of Angul District

- d) The outer envelope thus prepared shall also indicate clearly the name, address, telephone number, e-mail ID and contact number of the bidder.
- e) All the pages of the tender paper must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of bid.
- f) The original bid shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the bidder itself. Any such corrections must be initialed by the person (or persons) who sign(s) the tender paper.
- g) All pages of the bid shall be initialed and stamped by the person or persons who sign the bid.

#### 4.4.6. Authentication of Bids

The tender paper must have been signed under the official seal of the agency.

#### 4.4.7. Queries / Clarification:

- a) The DEO, Angul invite queries from Agencies as per the details mentioned in the Fact Sheet of this document.

- b) The Applicants must ensure that their queries should reach to DEO, Angul, on or before **22.10.2021** (5.00 P.M.) only through the email i.e. to **deoangul02@gmail.com**.
- c) The queries must be submitted in the following format:

Section/Page No	Content of Eol requiring clarification	Change/clarification requested	Remarks

- d) DEO, Angul will not be responsible for non – receiving / delay in receiving of queries made by agency (s).
- e) Any queries for clarification, received after the cut - off date and time may not be entertained.
- f) However, the DEO, Angul reserves the right to hold or re-schedule the process.

**Responses to Queries and Issue of Corrigendum:**

- a) DEO, Angul will provide timely response to the queries. However, no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does undertake to answer all the queries that have been posed by the Applicants.
- b) At any time prior to the last date for receipt of proposals, the client may, for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Applicant, modify the Eol document by a corrigendum.
- c) The Corrigendum (if any) & clarification to the queries from all bidder will be uploaded on the websites <http://angul.nic.in>. Any such corrigendum shall be deemed to be incorporated into this Eol.
- d) In order to provide prospective bidder reasonable time for taking the corrigendum into account, the DEO, Angul may discretionally extend the last date for the receipt of proposals.

**4.5. Preparation and Submission of Tender Paper**

**4.5.1. Preparation Costs**

The bidder shall be responsible for all costs incurred in connection with participation in the tender process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/ discussions/ presentations, preparation of tender paper, in providing any additional information required by the District mineral Foundation Trust to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process. District Mineral Foundation trust will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

**4.5.2. Language**

The Proposal shall be filled by the Bidder in English language only. If any supporting documents submitted are in any language other than English, translation

of the same in English language is to be duly attested by the Bidders. For purposes of interpretation of the Proposal, the English translation shall govern.

#### **4.5.3. Venue & Deadline for Submission of Tender Paper**

Proposals, completed in all respects as specified in the tender paper, must be submitted on or before the last date and time of submission of bid as mentioned on the cover page of the tender paper at the address specified below through registered post/ speed post [Indian Post] only. No other way of submission of tender paper including submission through courier shall be considered. District Mineral Foundation Trust shall not be responsible for any postal delay.

**The bid along with documents may be submitted the District Education Officer, Amalapada, Angul, Odisha, PIN – 759122.**

**Last Date & Time of Submission: 06.11.2021 up to 5.00 P.M. (through registered / speed post only). No other mode of submission is allowed.**

#### **4.5.4. Late Bid**

- a) Bids received after the due date and the specified time (including the extended period, if any) for any reason whatsoever, shall not be entertained and shall be returned unopened.
- b) The bids submitted by telex/ telegram/ fax/ e-mail etc. shall not be considered. No correspondence will be entertained on this matter.
- c) DEO, Angul shall not be responsible for any postal delay or non-receipt/ non-delivery of the documents. No further correspondence on the subject will be entertained.
- d) DEO, Angul reserves the right to modify and amend any of the above-stipulated condition/criterion depending upon project priorities vis-à-vis urgent commitments. Such as amendments shall be hosted in the district administration website and shall be published in the same newspaper in which the tender call notice is published.

#### **4.6. Evaluation Process**

- a) DEO, Angul has will constitute a Tender Evaluation Committee [Tender Committee] to evaluate the responses of the bidders.
- b) The Tender Evaluation Committee constituted by the DEO, Angul shall evaluate the tender papers and all supporting documents / documentary evidence including the rate of service charge. Inability to submit requisite supporting documents / documentary evidence of tender paper may lead to rejection.
- c) The decision of the Committee in the evaluation of tender papers shall be final. No correspondence will be entertained outside the process of negotiation/ discussion with the Committee.



- d) The Committee may ask for meetings with the Bidders to seek clarifications on their proposals.
- e) The Committee reserves the right to reject any or all proposals on the basis of any deviations.
- f) Each of the tender paper shall be evaluated as per the criteria and requirements specified in this tender paper.

#### **4.6.1. Tender Opening**

The bid documents submitted will be opened on scheduled date and time by the tender committee, in the presence of the Bidders or their authorized representatives, who may be present at the time of opening. The representatives of the bidders are advised to carry the identity card or a letter of authority from the tendering firms to identify their *bona fides* for attending the opening of the proposal.

#### **4.6.2. Tender Validity**

The offer submitted by the Bidders shall be valid for minimum period of 180 days from the date of last date of submission of Tender Paper.

#### **4.6.3. Tender Evaluation**

- a) Initial during bid scrutiny, incomplete details as given below will be treated as non-responsive and liable to be rejected. If tender papers;
  - Are not submitted in as specified in the tender document
  - Received without the Letter of Authorization (Power of Attorney)
  - Are found with suppression of details and facts
  - With incomplete information, subjective, conditional offers and partial offers submitted
  - Submitted without the documents requested in the checklist
  - Have non-compliance of any of the clauses stipulated
  - With lesser validity period.
  - Received without Cost of Tender Paper/ EMD or both
- b) All responsive Bids will be considered for further processing as below.

Tender Committee will make scrutiny of responsive bidders, who comply with all the Terms and Conditions of the Tender. All eligible bids will be considered for further evaluation by the Committee according to the Evaluation process defined in this EoI document. The decision of the Committee will be final in this regard.

## 5. Criteria for Evaluation

Proposals for this contract will be assessed in accordance with two bid system. The Tender Committee will carry out a detailed evaluation of the Technical Proposals with reference to the minimum eligibility criteria by taking into account the following factors:

- Overall completeness and compliance with the requirement.
- Any other relevant factors, if any, listed in the document, the tender committee members deemed necessary or prudent to take into consideration

In order to facilitate the technical proposal evaluation, the technical criteria laid down have been presented in subsequent sections. Bidders satisfying all the criteria would be considered for technical evaluation. Bidders qualifying in the technical evaluation will only be considered for further financial bid evaluation. Bids of Tenders which don't possess the minimum specified documents will be considered technically non-responsive and hence debarred from being considered for further evaluation.

### 5.1. Eligibility Criteria of Bidder:

The Tender Committee will carry out a detailed evaluation of the proposals, only those who have submitted documents detailed below as relevant to the bidder.

Sl No	Basic Requirement	Specific Requirements	Documents Required
1.	Legal Entity	<ul style="list-style-type: none"><li>• Sole – proprietor / Firm / Company</li></ul>	<ul style="list-style-type: none"><li>• Registration Certificate</li><li>• GST Registration</li><li>• PAN copy.</li><li>• IT Return for last 3 years.</li></ul>
2.	Experience	The agency must have at least 3 years of relevant experience in supply and installation of such type of equipment for functionalization of Central Kitchen & Food Processing Unit.	Copy work order / supply order
3.	Average Annual Turnover	Average Annual Turnover during last three financial years (as per the last Audited Balance Sheets) should be minimum Rs. 3,00,00,000/- (Rupees threecrore) only.	Copy of the Audited Balance Sheet and Profit & Loss Account for last three F.Y. (2018 - 19, 2019- 20 and 2020 - 21)
4.	Consortiums	Allowed.	Details to be submitted.
5.	Technical Capability	The bidder must have successfully undertaken at least two nos. of projects of similar type.	Work order from the client mentioning details of order and amount of claim.
6.	Blacklisting	Affidavit by the authorized signatory	Affidavit in prescribed

		of the bidder that the bidder has not been blacklisted by any Central / State Government (Central/State Government and Public Sector) or under a declaration of ineligibility for corrupt or fraudulent practices must be submitted on original letter head of the bidder with signature and stamp.	format.
7.	Tender Fees / Bid Cost	The Bidder must have submitted Rs.5,000/- (Rupees five thousand) only towards the cost of the Tender Document.	In shape of D.D. from any Nationalized / Scheduled Bank.
8.	EMD	The Bidder must have furnished the EMD of Rs.2,00,000/- (Rupees two lakhonly).	In shape of Demand Draftfrom any nationalized / schedule bank.

## 5.2. Technical Evaluation

Bidders need to score minimum 60 Marks out of 100 marks for qualifying to next stage i.e. Financial Evaluation. However, decision of Tender Committed is final depending up on the circumstances. Detailed technical evaluation will be done on following criteria:

Sl. No	Criteria	Max. Marks
1	Total experience of the bidder relevant to the assignment with reference to clause of EoI i. Experience from 3 years to 5 years - 15 Marks ii. Experience from 5 Years to 7 Years - 20 Marks iii. 7 Years and above - 25 Marks	25
2	Total Nos. of Projects undertaken of similar nature up to March' 2021 i. Nos. of Projects undertaken from 2 to 7 – 10 Marks ii. Nos. of Project undertaken from 7 to 10 – 20 Marks iii. Nos. of Project more than 10 – 30 Marks	30
2	Preference will be given for experience in Odisha	10
	Financial strength / turnover of the bidder with reference to clause of EoI i. Average Turnover from Rs.3.00 Crore to 5.00Crore - 15 Marks ii. Average Turnover from 5.00Crore to 7.50Crore - 25 Marks iii. Average Turnover more than 7.50Crore - 35 Marks	35
<b>Total</b>		<b>100</b>

### **5.3. Financial Evaluation**

The bidder must quote price exclusive of any taxes and duties. Arithmetical errors will be rectified on the following basis:

- i. Amount mentioned in word will prevail against the figure, in case of any discrepancy in Financial Proposal.
- ii. Technically qualified bidder quoting the lowest price will be declared as preferred bidder.

## **6. Appointment of Service Provider Agency**

### **6.1. Award Criteria**

DEO, Angul on behalf of District Administration will issued work order to the successful bidder whose proposal has been determined to be substantially responsive and has been determined as the most responsive bids as per the process outlined above.

### **6.2. Right to Accept Any Proposal and To Reject Any or All Proposal(s)**

DEO, Angul reserves the right to accept or reject any proposal, and to annul the tendering process / public procurement process and reject all proposals 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 grounds for such action.

### **6.3. Notification of Award**

Prior to the expiration of the validity period, DEO, Angul will notify the successful bidder in writing or by fax or email, that its proposal has been accepted. In case the EoI process/ public procurement process has not been completed within the stipulated period, DMF, Angul may like to request the bidders to extend the validity period of the bid. In such case such extended period shall be accepted as mutually agreed upon.

Upon successful bidder's accepting the assignment, DEO, Angul will notify each unsuccessful bidder and return their EMD.

### **6.4. Contract Finalization and Award**

DEO, Angul shall reserve the right to negotiate with the bidder(s) whose proposal has been ranked best value bid on the basis of Technical and Price Evaluation. On this basis the draft contract agreement would be finalized for award & signing.

### **6.5. Signing of Agreement / Issue of Work Order:**

DEO, Angul on behalf of District Administration, shall issue a work order to the selected bidder incorporating all clauses and TC of the proposal.

### **6.6. Failure to Agree with the Terms and Conditions of the Tender Paper**

Failure of the successful bidder to agree with the Draft Agreement and Terms & Conditions of the tender paper shall constitute sufficient grounds for the annulment of the award, in which event DEO, Angul may award the contract to the next best value bidder or call for new proposals from the interested bidders. In such a case, Collector, Angul shall forfeit the EMD of the successful bidder.

## **7. Terms of Reference:**

### **7.1. Size and Specifications:**

Refer **Annexure – I** for size and specification for Central Kitchen to be established at Talcher Block and refer **Annexure – II** for size and specification for Central Kitchen to be established at Chhendipada Block.

### **7.2. Installation Modalities:**

The selected agency has to deliver the materials to as per the instruction of DEO, Angul and installed the same by professionals within 45 days from the date of issue of the work order. Utmost care shall be taken during loading and unloading of material up the project location. Any damaged cause to the equipment's during transportation, loading / unloading and installation has to be bearded by the supplier. The agency has to supply, install and functionalize/ commission the Central Kitchen and handed over to the user along with adequate training to manage the unit smoothly.

### **7.3. Payment Terms:** Payment will be made after successful completion of installation, subject to confirmation / certification by a team of Technical Experts or as decided by DEO, Angul.

### **7.4. Other Terms and Conditions:**

1. Other details such as warranty, delivery period, and installation charges, if any & tax provision etc. if required shall also be intimated.
2. Necessary initial training/support services for using the equipment if required shall be arranged for the users' concerned or as and when required on demand basis during entire warranty/support period.
3. The delivery of material shall be made at the scheduled destination of the Office within 45 days from the issue of Work Order.
4. Extended warranty & OEM may be provided for 36 months in addition to the existing T & C provided by manufactures. If any defect(s) is (are) noticed or any complaint made by the users during the warranty/support period, the levy of compensation for any dislocation of work due to delayed rectification or any other reason, will be decided by the DEO, Angul to enforce penalty claim from the supplier/agency.
5. The Supplier shall warrant that stores to be supplied shall be new and free from all defects and faults in materials used, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications. The supplier shall be responsible for any defect that may develop under the conditions provided by the contract and under proper use, arising from faulty material design or workmanship and shall remedy such defects at his own cost when called upon to do so by the purchaser who shall state in writing in what respect the stores are faulty.
6. The agency has to supply, install and functionalize/ commission the Central Kitchen and handed over to the user group along with adequate training to manage the unit smoothly within the prescribed time limit.

### **7.5. Force Majeure:**

- This clause shall mean and be limited to the following in the execution of the contract placed by the department.
- War / hostilities

- Riot or civil commotion.
- Earth Quake, Flood, Tempest, Lightning or other natural physical disaster
- Restrictions imposed by the Government or other statutory bodies, which is beyond the control of the consultant, which prevent or delay the execution of the order by the consultant
- The supplier shall advise the department in writing the beginning and the end of the above clauses of delay, within 7 days of occurrence and cessation of the force majeure conditions. In the event of a delay lasting for more than one month, if arising out of clauses of force majeure, department reserves the right to cancel the contract without any obligation to compensate the consultant in any manner for whatsoever reason, subject to the provision of clause mentioned.

**7.6. Arbitration:**

- All disputes, differences, claims and demands arising under the contract shall be referred to the DEO, Angul for final decision and the same shall be binding on all parties.
- Any other terms and conditions mutually agreed prior to finalization of the order / agreement shall be binding on the service provider.
- DEO, Angul and the selected supplier shall make every effort to resolve amicably through direct negotiation, any disagreement or dispute arising between them under or in connection with the work order. If any dispute arises between parties on aspects not covered by this agreement, or the construction or operation thereof, or the rights, duties or liabilities under these except as to any matter the decision of which is specially provided for by the general conditions, such disputes shall be referred to two arbitrators, one to be appointed by each party and the said arbitrators shall appoint an umpire in writing before entering into the reference and the award of the arbitration or umpire, as the case may be. Shall be final and binding on both the parties. The arbitrators or the umpire as the case may be, with the consent of parties, may modify the time frame for making and publishing the award. Such arbitration shall be governed in all respects by the provision of the Indian Arbitration and Conciliation Act, 1996 or later and the rules there under and any statutory modification or reenactment there of the arbitration proceeding shall be held in the respective district head quarter.

**7.7. Legal Jurisdiction**

All legal disputes are subject to the jurisdiction of Angul District only.

### Format for Minimum Eligibility / Technical Bid

EoI NO: \_\_\_\_\_, Date: \_\_\_\_\_

Please check whether following have been enclosed in the respective covers, namely, letter of Technical Bid.

Sl. No.	Compliance Document	Provided (Yes/ No)	Page No in the Technical Bid
1	Copy of Authorization Certificate as Supplier (Sole – Proprietor / Firm / Company)		
2	Copy of Service Tax Registration Certificate and GST Compliance, if applicable		
3	Copy of PAN		
4	Copy of Audited Balance sheet and Profit & Loss Account; Showing the relevant trade as proof of Annual Turnover of last three F.Y. 2018 - 19, 2019 - 20 & 2020 - 21		
5	Tender / Bid Paper Cost (D.D. No.: ..... Amount:..... Date ..... .....Bank.....		
6	Earnest Money Deposit (D.D No.: ..... Amount:..... Dated ..... ....., Bank.: .....		
7	The agency must have at least 3 years of relevant experience in supply and installation of such type of equipment for functionalization of Central Kitchen & Food Processing Units.		
8	The bidder must have successfully undertaken at least two nos. of projects of similar type. Preference will be given for experience in Odisha.		
9	Minimum Average Annual Turnover during last three Financial Years (as per the last Audited Balance Sheets) should be minimum Rs. 3,00,00,000/- (Rupees threecrore) only.		
10	Details of Consortium, if any		
11	Affidavit of not be under Ineligibility		
12	Copy of Power of Attorney in the name of the Authorized signatory		

Signature of witness

Date:

Place:

Signature of the Bidder

Date:

Place:

**Affidavit of not be under Ineligibility:**

Before the Executive Magistrate/ Notary Public Sri \_\_\_\_\_

**AFFIDAVIT**

I, Sri/Smt. \_\_\_\_\_ aged about \_\_\_\_\_  
S/o./D/o./W/o. \_\_\_\_\_ Proprietor/Partner/ Director  
of M/s. \_\_\_\_\_ At- \_\_\_\_\_ Po- \_\_\_\_\_, P.S-  
\_\_\_\_\_, Dist- \_\_\_\_\_ do hereby solemnly affirm and state as follows:

- 1) That, pursuant to the tender call notice dated \_\_\_\_\_ of DEO, Angul for Supply and Installation of Equipment for Central Kitchen to be Established at Talcher & Chhendipada Block , I/my firm/company am/is an intended bidder to participate in the said tender process.
- 2) That as per terms & conditions of the tender documents, I am to declare that, I/my firm/company have not been blacklisted by any Central/State Govt. Organisation or by any Public Sector undertakings of the State/Central Govt.
- 3) That neither any criminal case nor any vigilance case is pending against me/my firm/company before any forum.
- 4) That I/my firm/company not have any record of poor performance, abandoned work, having inordinately delayed completion and having faced commercial failures etc. for any State Government or Government of India organization/department.
- 5) That this affidavit is required to be produced with tender paper before the DEO, Angul, Odisha.
- 6) That the facts stated above are true to the best of my knowledge and belief.

Identified by me

Deponents

Advocate

The above deponent being present before me & duly identified by Sri \_\_\_\_\_ Advocate states on oath that the facts stated above are true to the best of his/her knowledge.

Deponent

Executive Magistrate/



**Format of Technical Specification Confirmation Sheet for Supply, Installation and Functionalization of Central Kitchen at Talcher&Chhendipada Block (to be submitted by Bidder along with technical Bid Documents).**

**For Talcher Block / Site:**

Sl. No.	Sub – head of Equipment/ Services as per EoI Issued	Technical Specification Confirmed by Bidder. In case deviation, please mentioned the details
1		
2		
3		
4		
5		
6		
7		
8		
9		

**For Chhendipada Block / Site:**

Sl. No.	Sub – head of Equipment/ Services as per EoI Issued	Technical Specification Confirmed by Bidder. In case deviation, please mentioned the details
1		
2		
3		
4		
5		
6		
7		
8		
9		

Format for Details of Work Undertaken / Experiences

Sl. No.	Name of Work	Cost of the Project (Rs.)	Work Order Issuing Authority	Status of the Project (Completed / On-going)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Seal / Signature

12

**Bid Letter (Financial Bid)**

<Location, Date>

To

**The District Education Officer, Angul**

**Subject:** Submission of the financial bid for Supply and Installation of Equipment for Central Kitchen to be Established at Talcher & Chhendipada Block of Angul District.

Dear Sir/Madam,

We, the undersigned, offer to provide our services for supply and installation of Equipment for Central Kitchen to be Established at Talcher Block of Angul District in accordance with your Expression of Interest <<EoI No. >> dated <<Date>> and our Proposal (Technical and Financial Proposals). This amount quoted is exclusive of any taxes and duties.

**1. PRICE AND VALIDITY**

All the prices mentioned in our Tender Documents are in accordance with the terms as specified in the EoI documents. All the prices and other terms and conditions of this Bid are valid for a period 180 days from the date of opening of the Bid.

We hereby confirm that our prices do not include any taxes and duties.

We understand that the actual payment would be made as per the existing tax rates during the time of payment.

**2. UNIT RATES**

We have indicated in the relevant forms enclosed, the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to / decrease from the scope of work under the contract.

**3. TENDER PRICING**

We further confirm that the prices stated in our bid are in accordance with your Instruction to Bidders included in Tender documents.

**4. QUALIFYING DATA**

We confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/documentary proof in this regard before evaluation of our Tender, we agree to furnish the same in time to your satisfaction.

**5. BID PRICE**

We declare that our Bid Price is for the entire scope of the work as specified in the appropriate section in the EoI. These prices are indicated Financial Bid attached with our Tender as part of the Tender. Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal.

We understand that, you are not bound to accept any Proposal you receive.

We hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.

We understand that our Tender is binding on us and that you are not bound to accept a Tender you receive.

Thanking you,

## Form: Financial Proposal For Talcher Block

EoI NO: \_\_\_\_\_, Date: \_\_\_\_\_

**Work:** Supply and Installation of Equipment for Central Kitchen to be Established at Talcher Block of Angul District.

**Block:** Talcher

Sl. No.	Particulars	Amount (Rs.) for Talcher Block Excluding GST
1.	Total Cost of the Equipment, Consumables & Services till functionalization/ commissioning Central Kitchen at Talcher with reference to the Tor (Size & Specification in Annexure - I)	
2.	Loading & Unloading and Other Charges, if any not covered above with reference to the ToR.	
3.	Cost of Extended Warranty / Support Cost, if any over and above the original warranty & TC.	
Total		
(Rupees in words.....)		

**Note:**

- i. GST and other Taxes as applicable will be paid extra.
- ii. Selection of Agency will be based on price quoted including cost of material and all other ancillary expenses relating to installation/ fittings till functionalization/commissioning of the Central Kitchen.

Signature of the Bidder

Date:

Place:

Company Seal

**Form: Financial Proposal For Chhendipada Block**

EoI NO: \_\_\_\_\_, Date: \_\_\_\_\_

**Work:** Supply and Installation of Equipment for Central Kitchen to be Established at Chhendipada Block of Angul District.

**Block:** Talcher

Sl. No.	Particulars	Amount (Rs.) for Chhendipada Block Excluding GST
1.	Total Cost of the Equipment, Consumables & Services till functionalization/ commissioning Central Kitchen at Chhendipada with reference to the Tor (Size & Specification in Annexure - II)	
2.	Loading & Unloading and Other Charges, if any not covered above with reference to the ToR.	
3.	Cost of Extended Warranty / Support Cost, if any over and above the original warranty & TC.	
Total		
(Rupees in words.....)		

**Note:**

- iii. GST and other Taxes as applicable will be paid extra.
- iv. Selection of Agency will be based on price quoted including cost of material and all other ancillary expenses relating to installation/ fittings till functionalization/commissioning of the Central Kitchen.

Signature of the Bidder

Date:

Place:

Company Seal

Technical Specification of Equipment and Services for  
Establishment of Central Kitchen at Talcher Block

I. BOILER: (Make - THERMAX/ FORBES / MARSHAL/ IBL or Similar )

BOILER TYPE - Skid mounted, Three Pass, Horizontal Multi Tubular Shell Type Smoke Tube, factory insulated boiler along with pollution control device.

QUANTITY -2 Nos.

MAX OUTPUT (F& A 100 ° c)-1000 KG.

DESIGN PRESSURE - 10.54 KG/CM<sup>2</sup>

FUEL - Coal(Indian), Wood Logs, Husk Briquettes

POWER SUPPLY -415 V +/- 6 %, 50 Hz +/- 3 %

PACKAGED BOILER CONSISTING OF :

One Horizontal Three Pass, Smoke Tube Boiler Assembly designed as per Industrial Boiler Regulation of IBR consisting of the following

- Boiler Shell
- Boiler Furnace
- Set Of Convection Tubes for II and III Pass
- Reversal Chamber
- Smoke Box
- Observation/Cleaning Connections
- Insulation and Cladding

One Furnace Assembly

- One set of stationary grate bars
- Furnace Refractory work
- Fire door
- Ash Settling Chamber.
- Settling Chamber Access door
- One Ash collection and handling tray – Furnace Side.
- One Ash removal and disposal tray – Settling chamber tray

One Set of Support Structure:

- Bottom frame
- Boiler support structure

One Feed Water Circuit Consisting of:

- Feed Water Heating System
  - o One Insulated Water Tank mounted on smoke chamber
  - o One set of convection heat transfer tubes
- Isolating valve at pump suction
- Two units of Vertical Multistage Centrifugal Feed Water Pump

- Isolating Stop Valve at Feed Pump Outlet
- Pressure gauge with isolating cock at pump outlet.
- Two Disc Check Valves on Feed line.

Combustion Air & Flue Gas Circuit:

- Induced Draught Fan assembly with motor and vibration dampers.
- FD Fan assembly with motor (mounted on skid)
- RTD Assembly at HRU Outlet

Set of Valves & Instruments:

- Main Steam Stop Valve
- Two Spring Loaded Safety Valves
- One Mobrey for feed pump on/off and low level with isolation and drain valve
- One Conductivity Probe type control for level control in HRU.
- Set of Gauge glass
- Pressure Gauge with isolation valve
- Air Vent
- Blowdown Valve
- Pressure switch for control shut down
- HRU drain valve
- Water level gauge for HRU.

Power & Control Panel consisting of :

- Feeders for Feed Pump, ID fan motor.
- Temperature indicating switch for HRU flue gas outlet temperature

Set of Cabling:

- Power cabling between control panel and feed pump motor.
- Power cabling between control panel and ID Fan motor.
- Control Cabling between control panel and RTD assembly at HRU outlet
- Control Cabling between control panel and Mobrey control
- Control Cabling between control panel and Probe Control
- Control Cabling between control panel and Pressure switch

SERVICES:

SUPERVISION OF ERECTION & COMMISSIONING OF THE BOILER:

- The boiler covered under this offer is dispatched from our factory as a single package boiler and accessories. The IBR valves and mountings, panel box, ID fan, etc. are packed separately in wooden case and dispatched with boiler. Unloading and assembling of the total unit has to be done at site. The services of our erection engineer who would offer guidance and supervision in this matter would be available at the charge mentioned in our offer.

The service charge payable to us inclusive of:

- Drawings: Unit General Arrangement and Terminal points, Foundation details (not foundation design), Electrical wiring diagram, P&I diagram
- Documents: Instruction manual, IBR folder (at the time of dispatch)
- Assistance / Guidance: Selection of boiler house accessories, installation of these accessories and IBR registration.
- Reasonable: For pre installation checks, receipts and assembly of boiler, no of

visits open inspection and hydraulic test and Commissioning.

- Training: For the purpose of user's education for equipment, operation and maintenance.

The service charge payable to us is exclusive of:

- Labor (skilled and unskilled)
- Tools and tackles
- Utilities (including power, water, charcoal, fuel, compressed air oil/gas etc.)
- Consumables (which are to be supplied by the user, as and when required, for unloading and assembling of the boiler, its accessories, mounting and fittings)
- This charge does not include any fees payable for IBR inspection of the boiler and its accessories. All such charges are to be borne by the purchaser.

## 2. WATER:

CARBON ACTIVATED FILTER: (Make - THERMAX/ION Exchange/GE or Similar)  
QUANTITY - 1 NOS.

CAPACITY - 7 m<sup>3</sup>/hr

DIA - 800 mm.

HEIGHT - 1500 mm

FORNTAL PIPING - 40 NB

MOC - MS

FORNTAL PIPING MOC - UPVC

WATER PARAMETER -

Inlet Water parameter - TDS - 400, TH - 80 - 100, PH - 6-7, FE - 0.9

FILTER MEDIA - Anthracite, Salix, Pebbles, Media Sand of Different Size

VESSEL INTERNAL FINISH - Black Bituminous water proof paint

VESSEL EXTERNAL FINISH - Two coats of synthetic Enamel

MODE OF OPERATION: Manual

VESSEL DESIGN PRESSURE - 3.5 KG/CM<sup>2</sup>

VESSEL HYDRO TEST PRESSURE - 5.25 KG/CM<sup>2</sup>

IRON REMOVAL FILTER: (Make - THERMAX/ION Exchange/GE or Similar)

QUANTITY - 1 Nos..

CAPACITY - 8 m<sup>3</sup>/hr

DIA - 800 mm



HEIGHT – 1500 mm

FORNTAL PIPING –40 NB

MOC - MS

FORNTAL PIPING MOC – UPVC

WATER PARAMETER –

Inlet Water parameter – TDS – 400, TH – 80 – 100, PH – 6-7, FE – 0.9  
Required Parameters – Fe - <0.3

FILTER MEDIA –MnO<sub>2</sub>, Salix, Pebbles, Media Sand of Different Size

VESSEL INTERNAL FINISH -Black Bituminous water proof paint

VESSEL EXTERNAL FINISH - Two coats of synthetic Enamel

MODE OF OPERATION: Manual

VESSEL DESIGN PRESSURE – 3.5 KG/CM<sup>2</sup>

VESSEL HYDRO TEST PRESSURE – 5.25 KG/CM<sup>2</sup>

SOFTENER: (Make - THERMAX/ION Exchange/GE or Similar)

QUANTITY – 1 Nos.

CAPCITY –1 m<sup>3</sup>/hr

DIA –300 mm.

HEIGHT – 1200 mm.

FORNTAL PIPING – 25 NB

MOC - FRP

FORNTAL PIPING MOC – UPVC

WATER PARAMETER –

Inlet Water parameter – TDS – 400, TH – 80 – 100, PH – 6-7, FE – 0.9  
Required Parameters – TH - < 5

MEDIA – Resin

VESSEL EXTERNAL FINISH - Two coats of synthetic Enamel

MODE OF OPERATION: Manual

VESSEL DESIGN PRESSURE – 4 KG/CM<sup>2</sup>

VESSEL HYDRO TEST PRESSURE - 6 KG/CM<sup>2</sup>

CHLORING DOSING:  
DOSING PUMP (Make - GROUNDFOSS/ THERMAX / MILTON ROY or Similar)

QUANTITY - 1 Nos.

CAPACITY - 6 LPH @ 3.5 kg/cm<sup>2</sup>

MOC - PP

TYPE - Electronic Metering type

DOSING TANK: (Make - LLDPE/HDPE)

QUANTITY - 1 Nos.

CAPACITY - 80 LT

MOC - HDPE

FILTER FEED WATER PUMP: MAKE - SS316 (GROUNDFOSS/ CNP/ WILLO or Similar)

QUANTITY - 2 Nos. (1w + 1s)

CAPACITY - 8 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE - Centrifugal Pump

SOFTENER FEED WATER PUMP: MAKE - SS316 (GROUNDFOSS/ CNP/ WILLO or Similar)

QUANTITY - 2 Nos. (1w + 1s)

CAPACITY - 2 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE - Centrifugal Pump

FILTER WATER TRANSFER PUMP: MAKE - SS316 (GROUNDFOSS/ CNP/ WILLO or Similar)

QUANTITY - 2 Nos. (1w + 1s)

CAPACITY - 5 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE - Centrifugal Pump

3. DISEL GENERATOR SET:(Make - MAHINDRA/KOHLER /  
KIRLOSKAR or Similar)

QUANTITY – 1 Nos.

CAPACITY – 82.5 KVA

RPM - 1500

PHASE – 3

POWER - 415 V +/- 6 % , 50 Hz +/- 3 %

4. INSTALATION OF BOILER & CHIMNEY:  
PIPE - TATA/ JINDAL , VALVE - ZOLOTO/NETA/LEDER , CHIMNEY PLATE -  
SHYAM STEEL/ SHELL

1	CHIMNEY INSTALLATION WITH MATERIALS
2	FLUE GAS DUCT UP TO CHIMNEY
3	BOILER FEED WATER TANK
4	BOILER HOUSE PIPE LINE ( NON-IBR )
5	BOILER HOUSE PIPE LINE (IBR)
6	SUPPORTS
7	LEADING & ERECTION OF EQUIPMENT
8	IBR FORMALITEES
9	INSTALLATION OF PRESSURE REDUCING STATION
10	STEAM PIPE LINE FROM BOILER TO PROCESS ALONG WITH PIPE FITTINGS & VALVES
11	INSULATION OF ALL BOILER, DUCTING & STEAM PIPELINE WITH MINERAL WOOL AND ALUMINIUM CLADING

5. PRESSURE REDUCING STATION (PRS ):  
(Make - THERMAX/FORBSMARSHAL/PANER or Similar)

DESCRIPTION	UNIT	VALUE
FLOW	Kg/hr	600 - 1000
INLET PRESSURE	Bar(g)	10
OUTLET PRESSURE	Bar(g)	3.5

PRS shall be consist of the following items:

Sl.No	Item Description	Quantity
1	Isolation Gate Valves(Cast Steel)	2nos.
2	Bypass Globe Valves(Cast Steel)	Inos.
3	Strainer	Inos.
4	Moisture Separator with Drain Trap Assembly – MS	1 Set
5	Pressure Reducing Valve (Direct Acting)	Inos.
6	Safety Valve – Cast Steel.	Inos.
8	Pressure Gauges	2nos.

10 Condensate Pot and Impulse Tubing

I Set

6. DISWASH PLANT: MAKE - SS316 (GROUNDFOS/ CNP/ WILLO or Similar)

CONDENSATE TRANSFER WATER PUMP WITH LEVEL SENCOR:  
QUANTITY – I Nos.

CAPACITY – I m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE – Centrifugal Pump

TEMPERATURE – 100 – 120 DegC

7. PROCESS EQUIPMENT: Make – SS316

RICE & VEGETABLE KETTLE - DESCRIPTION	
RICE COOKER WITH DRANAGE SYSTEM WITH STEAM & WATER CONNECTING POINT MAKE – SS316 CAPCITY – 1000 LT PRESSURE – 2.5 – 3.5 BAR	15 NOS
VEGITABLE COOKER WITH DRANAGE SYSTEM WITH STEAM & WATER CONNECTING POINT MAKE – SS316 CAPCITY – 3000 LT PRESSURE – 2.5 – 3.5 BAR	3 NOS
FRY PAN MAKE – SS316	1 NO
RICE DANAGE TRAY MAKE – SS316	1 SET
VEGITABLE DANAGE TRAY MAKE – SS316	1 SET
RICE STORAGE TANK MAKE – SS316 CAPACITY – 8000 LT	2 NOS
VEGITABLE STORAGE TANK MAKE – SS316 CAPACITY – 3000 LT	2 NOS
VEGITABLE WASING BUSKET ( TABLE ) MAKE – SS316 LENGTH – 2 MT, WIDTH – 1 MT & HEUGHT – 0.6 MT	2 NOS

## 8. INSTALATION OF EQUIPMENT:

Sl. No.	DESCRIPTION ( ALL MAKE - SS316 )
1	15 NOS RICE COOKER INSTALLATION
2	3 NOS VEGITABLE COOKER INSTALLATION
3	STEAM CONNECTION IN RICE COOKER
4	STEAM CONNECTION IN VEGITABLE COOKER
5	WATER CONNECTION IN RICE COOKER
6	WATER CONNECTION IN VEGITABLE COOKER
7	SUPPORTS
8	LEADING & ERECTION OF EQUIPMENT
9	RICE DRANGE SYSTEM INSTALATION
10	VEGITABLE DRANGE SYSTEM INSTALLATION
11	WASHING SYSTEM

## 9. ELECTRICAL COMPONENTS:

MAKE - L& T/SCHNEIDER/SIMENS or Similar

I	<p>Main Electrical control panel for all equipment with necessary protection and indication :</p> <p>The control panel should have Bulbar, Incomer MCB(3P,and neutral) ,internal wiring, ON-OFF push switches, indicating lamps, Motor protection circuit breakers(MPCB), contactors, etc for operation of various motors like water pump and fan. The panel should have indication and alarm for failure. There should be LED indicator to indicate mode of operational failure. There should be separate feeder for each equipment.</p>
2	<p>I. Electrical cabling of all equipment with armored PVC insulated copper cable on GI cable tray with supports.</p> <p>II. Earthling of the motors and panels with GI wires and GI strips.</p>

Technical Specification of Equipment and Services for  
Establishment of Central Kitchen at Chhendipada Block

I. BOILER: (Make - THERMAX/ FORBES / MARSHAL/ IBL or Similar)

BOILER TYPE - Skid Mounted, Three Pass, Horizontal Multi tubular Shell Type Smoke Tube, factory insulated boiler along with pollution control device  
QUANTITY - 2 Nos.

MAX OUTPUT (F& A 100 ° c) - 750 KG.

DESIGN PRESSURE - 10.54 KG/CM<sup>2</sup>

FUEL - Coal (Indian), Wood logs, Husk Briquettes

POWER SUPPLY - 415 V +/- 6 %, 50 Hz +/- 3 %

PACKAGED BOILER CONSISTING OF...:

One Horizontal Three Pass, Smoke Tube Boiler Assembly designed as per Industrial Boiler Regulation of IBR consisting of the following

- Boiler Shell
- Boiler Furnace
- Set Of Convection Tubes for II and III Pass
- Reversal Chamber
- Smoke Box
- Observation/Cleaning Connections
- Insulation and Cladding

One Furnace Assembly:

- One set of stationary grate bars
- Furnace Refractory work
- Fire door
- Ash Settling Chamber.
- Settling Chamber Access door
- One Ash collection and handling tray - Furnace Side.
- One Ash removal and disposal tray - Settling chamber tray

One Set of Support Structure:

- Bottom frame
- Boiler support structure

One Feed Water Circuit Consisting of:

- Feed water Heating System
  - o One Insulated Water Tank mounted on smoke chamber
  - o One set of convection heat transfer tubes
- Isolating valve at pump suction
- Two units of Vertical Multistage Centrifugal Feed Water Pump

- Two Disc Check Valves on Feed line.

#### Combustion Air & Flue Gas Circuit:

- Induced Draught Fan assembly with motor and vibration dampers.
- FD Fan assembly with motor (mounted on skid)
- RTD Assembly at HRU Outlet

#### Set of Valves & Instruments:

- Main Steam Stop Valve
- Two Spring Loaded Safety Valves
- One Mobrey for feed pump on/off and low level with isolation and drain valve
- One Conductivity Probe type control for level control in HRU.
- Set of Gauge glass
- Pressure Gauge with isolation valve
- Air Vent
- Blowdown Valve
- Pressure switch for control shut down
- HRU drain valve
- Water level gauge for HRU.

#### Power & Control Panel consisting of:

- Feeders for Feed Pump, ID fan motor.
- Temperature indicating switch for HRU flue gas outlet temperature

#### Set of Cabling:

- Power cabling between control panel and feed pump motor.
- Power cabling between control panel and ID Fan motor.
- Control Cabling between control panel and RTD assembly at HRU outlet
- Control Cabling between control panel and Mobrey control
- Control Cabling between control panel and Probe Control
- Control Cabling between control panel and Pressure switch
- 
- 

#### SERVICES:

##### SUPERVISION OF ERECTION & COMMISSIONING OF THE BOILER:

- The boiler covered under this offer is dispatched from our factory as a single package boiler and accessories. The IBR valves and mountings, panel box, ID fan, etc. are packed separately in wooden case and dispatched with boiler. Unloading and assembling of the total unit has to be done at site. The services of our erection engineer who would offer guidance and supervision in this matter would be available at the charge mentioned in our offer.
- The service charge payable to us inclusive of:
  - Drawings: Unit General Arrangement and Terminal points, Foundation details (not foundation design), Electrical wiring diagram, P&I diagram
  - Documents: Instruction manual, IBR folder (at the time of dispatch)
  - Assistance / Guidance: Selection of boiler house accessories, installation of these accessories and IBR registration.
  - Reasonable: For pre installation checks, receipts and assembly of boiler, no of visits open inspection and hydraulic test and Commissioning.

- The service charge payable to us is exclusive of:
  - Labor (skilled and unskilled)
  - Tools and tackles
  - Utilities (including power, water, charcoal, fuel, compressed air oil/gas etc.)
  - Consumables (which are to be supplied by the user, as and when required, for unloading and assembling of the boiler, its accessories, mounting and fittings)
  - This charge does not include any fees payable for IBR inspection of the boiler and its accessories. All such charges are to be paid by the purchase.

## 2. WATER: (Make - THERMAX/ION Exchange/GE or Similar)

CARBON ACTIVATED FILTER:

QUANTITY - 1 Nos.

CAPACITY - 7 m<sup>3</sup>/hr

DIA - 800 mm

HEIGHT - 1500 mm

FORNTAL PIPING - 40 NB

MOC - MS

FORNTAL PIPING MOC - UPVC

WATER PARAMETER -

Inlet Water parameter - TDS - 400, TH - 80 - 100, PH - 6-7, FE - 0.9

FILTER MEDIA - Anthracite, Salix, Pebbles, Media Sand of Different Size

VESSEL INTERNAL FINISH - Black Bituminous water proof paint

VESSEL EXTERNAL FINISH - Two coats of synthetic Enamel

MODE OF OPERATION : Manual

VESSEL DESIGN PRESSURE - 3.5 KG/CM<sup>2</sup>

VESSEL HYDRO TEST PRESSURE - 5.25 KG/CM<sup>2</sup>

IRON REMOVAL FILTER: (Make - THERMAX/ION Exchange/GE or Similar)

QUANTITY - 1 Nos.

CAPACITY - 8 m<sup>3</sup>/hr

DIA - 800 mm

HEIGHT - 1500 mm



MOC - MS

FORNTAL PIPING MOC - UPVC

WATER PARAMETER -

Inlet Water parameter - TDS - 400, TH - 80 - 100, PH - 6-7, FE - 0.9  
Required Parameters - Fe - <0.3

FILTER MEDIA - MnO<sub>2</sub>, Salix, Pebbles, Media Sand of Different Size

VESSEL INTERNAL FINISH - Black Bituminous water proof paint

VESSEL EXTERNAL FINISH - Two coats of synthetic Enamel

MODE OF OPERATION: Manual

VESSEL DESIGN PRESSURE - 3.5 KG/CM<sup>2</sup>

VESSEL HYDRO TEST PRESSURE - 5.25 KG/CM<sup>2</sup>

SOFTENER: (Make - THERMAX/ION Exchange/GE or Similar)

QUANTITY - 1 Nos.

CAPACITY - 1 m<sup>3</sup>/hr

DIA - 300 mm

HEIGHT - 1200 mm

FORNTAL PIPING - 25 NB

MOC - FRP

FORNTAL PIPING MOC - UPVC

WATER PARAMETER -

Inlet Water Parameter - TDS - 400, TH - 80 - 100, PH - 6-7, FE - 0.9  
Required Parameters - TH - < 5

MEDIA - Resin

VESSEL EXTERNAL FINISH - Two coats of synthetic Enamel

MODE OF OPERATION: Manual

VESSEL DESIGN PRESSURE - 4 KG/CM<sup>2</sup>

VESSEL HYDRO TEST PRESSURE - 6 KG/CM<sup>2</sup>

CHLORING DOSING:

QUANTITY – 1 Nos.

CAPACITY – 6 LPH @ 3.5 kg/cm<sup>2</sup>

MOC - PP

TYPE – Electronic Metering type

DOSING TANK:(Make - LLDPE/HDPE)

QUANTITY – 1 NO

CAPACITY – 80 LT

MOC - HDPE

FILTER FEED WATER PUMP: MAKE - SS316 (GROUNDFOS/ CNP/ WILLO or Similar)

QTY – 2 NO (I<sub>w</sub> + I<sub>s</sub>)

CAPACITY – 8 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE – Centrifugal Pump

SOFTENER FEED WATER PUMP: MAKE - SS316 (GROUNDFOS/ CNP/ WILLO or Similar)

QTY – 2 NO (I<sub>w</sub> + I<sub>s</sub>)

CAPACITY – 2 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE – Centrifugal Pump

FILTER WATER TRANSFER PUMP:

QTY – 2 NO (I<sub>w</sub> + I<sub>s</sub>)

CAPACITY – 5 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE – Centrifugal Pump

### 3. DISEL GENERATOR SET: (Make - MAHINDRA/KOHLER / KIRLOSKAR or Similar)

QUANTITY – 1 Nos.

CAPACITY – 82.5 KVA

PHASE - 3

POWER - 415 V +/- 6 % , 50 Hz +/- 3 %

4. INSTALATION OF BOILER & CHIMNEY:  
 PIPE - TATA/ JINDAL , VALVE - ZOLOTO/NETA/LEDER , CHIMNEY PLATE - SHYAM STEEL/ SHELL

1	CHIMNEY INSTALLATION WITH MATERIALS
2	FLUE GAS DUCT UP TO CHIMNEY
3	BOILER FEED WATER TANK
4	BOILER HOUSE PIPE LINE ( NON-IBR)
5	BOILER HOUSE PIPE LINE (IBR)
6	SUPPORTS
7	LEADING & ERECTION OF EQUIPMENT
8	IBR FORMALITEES
9	INSTALLATION OF PRESSURE REDUSING STATION
10	STEAM PIPE LINE FROM BOILER TO PROCESS ALONG WITH PIPE FITTINGS & VALVES
11	INSULATION OF ALL BOILER, DUCTING & STEAM PIPELINE WITH MINERAL WOOL AND ALUMINIUM CLADING

5. PRESSURE REDUCING STATION (PRS):  
 (Make - THERMAX/FORBSMARSHAL/PANER or Similar)

DESCRIPTION	UNIT	VALUE
FLOW	Kg/hr	500 - 700
INLET PRESSURE	Bar(g)	10
OUTLET PRESSURE	Bar(g)	3.5

PRS shall be consist of the following items:

Sl.No	Item Description	Quantity
1	Isolation Gate Valves(Cast Steel)	2nos.
2	Bypass Globe Valves(Cast Steel)	Inos.
3	Strainer	Inos.
4	Moisture Separator with Drain Trap Assembly - MS	I Set
5	Pressure Reducing Valve (Direct Acting)	Inos.
6	Safety Valve - Cast Steel.	Inos.
8	Pressure Gauges	2nos.
10	Condensate Pot and Impulse Tubing	I Set

## 6. DISWASH PLANT:

MAKE - SS316 (GROUNDFOSS/ CNP/ WILLO or Similar)

CONDENSATE TRANSFER WATER PUMP WITH LEVEL SENCOR:

QUANTITY - 1 Nos.

CAPACITY - 1 m<sup>3</sup>/hr @ 3.5 kg/cm<sup>2</sup>

MOC - SS

TYPE - Centrifugal Pump

TEMPERATURE - 100 - 120 DegC

## 7. PROCESS EQUIPMENT: Make - SS316

RICE & VEGETABLE KETTLE - DESCRIPTION	
RICE COOKER WITH DRANAGE SYSTEM WITH STEAM & WATER CONNECTING POINT MAKE - SS316 CAPCITY - 1000 LT PRESSURE - 2.5 - 3.5 BAR	10 NOS
VEGITABLE COOKER WITH DRANAGE SYSTEM WITH STEAM & WATER CONNECTING POINT MAKE - SS316 CAPCITY - 3000 LT PRESSURE - 2.5 - 3.5 BAR	2 NOS
FRY PAN MAKE - SS316	1 NO
RICE DANAGE TRAY MAKE - SS316	1 SET
VEGITABLE DANAGE TRAY MAKE - SS316	1 SET
RICE STORAGE TANK MAKE - SS316 CAPACITY - 8000 LT	2 NOS
VEGITABLE STORAGE TANK MAKE - SS316 CAPACITY - 3000 LT	2 NOS
VEGITABLE WASING BASKET ( TABLE ) MAKE - SS316 LENGTH - 2 MT, WIDTH - 1 MT & HEUGHT - 0.6 MT	2 NOS

## 8. INSTALATION OF EQUIPMENT:

Sl. NO	DESCRIPTION ( ALL MAKE - SS316 )
1	10 NOS RICE COOKER INSTALLATION
2	2 NOS VEGITABLE COOKER INSTALLATION
3	STEAM CONNECTION IN RICE COOKER

4	STEAM CONNECTION IN VEGITABLE COOKER
5	WATER CONNECTION IN RICE COOKER
6	WATER CONNECTION IN VEGITABLE COOKER
7	SUPPORTS
8	LEADING & ERECTION OF EQUIPMENT
9	RICE DRANGE SYSTEM INSTALATION
10	VEGITABLE DRANGE SYSTEM INSTALLATION
11	WASHING SYSTEM

## 9. ELECTRICAL COMPONENTS:

MAKE - L& T/SCHNEIDER/SIMENS or Similar

I	<p>Main Electrical control panel for all equipment with necessary protection and indication :</p> <p>The control panel should have Bulbar, Incomer MCB(3P,and neutral) ,internal wiring, ON-OFF push switches, indicating lamps, Motor protection circuit breakers(MPCB), contactors, etc for operation of various motors like water pump and fan. The panel should have indication and alarm for failure. There should be LED indicator to indicate mode of operational failure. There should be separate feeder for each equipment.</p>
2	<p>I. Electrical cabling of all equipment with armored PVC insulated copper cable on GI cable tray with supports.</p> <p>II. Earthling of the motors and panels with GI wires and GI strips.</p>