



INDIAN INSTITUTE OF TECHNOLOGY DHARWAD
Off Pune Bengaluru Highway, Near High Court,
Dharwad, Karnataka - 580011

TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING AND DEMONSTRATION OF KITCHEN EQUIPMENT (CUSTOM MAKE) AT INDIAN INSTITUTE OF TECHNOLOGY DHARWAD

NOTICE INVITING TENDER (NIT) / RFP

1.	Tender No.	IITDH/MMD/PC/2022-23/002	
2.	Description	TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING AND DEMONSTRATION OF KITCHEN EQUIPMENT (CUSTOM MAKE) AT INDIAN INSTITUTE OF TECHNOLOGY DHARWAD.	
3.	Tender Category	Goods	
4.	Tender Type	Open Tender	
5.	No. of Covers	2	
6.	Submission of Bids : ON GeM PORTAL ONLY		
7.	Cover No.	Cover Type	Description
	1	Technical	Schedule of Requirement and Compliances, Bidders Information, Previous Supply Orders etc.
	2	Commercial	Commercial Bid
8.	Two Bid System: - The two bid system will be followed for this tender. Note: The technical offer should not contain any price information. If the price quoted is submitted in technical bid the tender will be rejected by IIT Dharwad. Initially Technical Bids will be opened and evaluated by the committee. Commercial bids of only Technically qualified bidders will be opened later. Contract/ Purchase Order will be awarded to the lowest bidder (L₁) identified.		
9.	Form of Contract	Buy	
10.	Bid Validity (Days):	90 Days	
11.	Period of Work/Delivery Period (Days)	60 Days Part deliveries in not more than 2 lots will be accepted	
12.	Time period for installation	Within 15 days from the receipt of the material at IIT Dharwad	
13.	Tender Publication Date	05.05.2022	
14.	Start date for Submission of queries via email to armm@iitdh.ac.in or in GeM	05.05.2022	
15.	Date of visit to the IIT Dharwad Permanent Campus site by the bidders (if desired)	05.05.2022 – 11.05.2022	
16.	End date for Submission of queries via email to armm@iitdh.ac.in	13.05.2022 till 04:00 PM	
17.	Date of online pre-bid meeting (mandatory to attend)	19.05.2022 at 11:00 AM	
18.	Date of clarification of queries (to be uploaded on the website/GeM) and publishing corrigendum (if required)	25.05.2022 at 03.00 PM	
19.	Bid Submission Start Date	25.05.2022 at 04:00 PM	
20.	Bid Submission End Date & Time	15.06.2022 till 04:00 PM	
21.	Bid Opening Date & Time	15.06.2022 at 04:30 PM	
22.	Delivery Location	IIT Dharwad Permanent Campus, Karnataka, India	
23.	Pin Code	580011	
24.	Tender Inviting Authority:	Registrar, IIT Dharwad Address: Off Pune Bengaluru Highway, Near High Court, Dharwad, Karnataka- 580011, India	

Section – I: Instructions to Bidders

1. Indian Institute of Technology Dharwad invites tenders (under two bid system) ON GeM portal from reputed suppliers/manufacturers OR authorized dealers for the item as described in Sl.No.2 of page 1 of this document and as per the Technical Specifications given in the Section V of this document.
2. The bidder should note that the technical specifications mentioned in **Section V** form the core of the product. The offers must strictly be as per the specifications given. At the same time, it must be kept in mind that mere copying of our specifications in the quotation shall not make the technical bid eligible for consideration. **A bid has to be supported with original catalogue of the quoted item/s duly signed by the authorised person participating in the bid.** Non-compliance with above shall be treated as incomplete/ambiguous and the bid may be ignored without giving an opportunity to the bidder for further clarification/negotiation etc.

PRE-BID INTERACTION

3. In order to clarify on any technical specifications or any issues, a query session (by email) for clarification is provided and an **Online Pre-Bid meeting is also scheduled, which is mandatory for the bidders to attend. Only the bids of those bidders shall be considered who have attended the Online pre-bid meeting.** Resultant rebuttal/re-publishing of modified RFP or corrigendum (as the case may be) will be published on the institute website. **The bidders are advised to utilize the period given for clarifying any issue pertaining to RFP. After the period is over, no issue will be addressed and the institute will assume general acceptance of RFP terms and conditions.** Prospective bidders have to submit their bids post rebuttal/modification in RFP (as the case may be).
4. The prospective bidders are also encouraged to visit the construction site of the IIT Dharwad permanent site, on the date scheduled by the institute for this purpose if they desire. However, this is not a mandatory requirement.
5. Any item not specifically mentioned in the tender document but essential in the opinion of the bidder for successful execution of the order (if awarded), should be brought to the notice of IIT Dharwad within the pre-bid clarification period/in the pre-bid meeting and before end date of submission of queries. On clearance from institute side, the same may be included by the institute by issuing a necessary corrigendum (as the case may be). However, the decision as to whether to consider such items or not, rests with the Institute.
6. The bidder shall ensure that the bid submitted by him includes all accessories (as per annexures) for full execution of contract. The successful bidder shall not charge extra for additional items required to meet the operational requirement at the stage of installation and commissioning.
7. Procedure for Bid Submission : **Bids can be submitted only through GeM portal.**
8. The bidder must submit all documents required for evaluation of technical bid and sought in the RFP as forming part of technical evaluation with signature and seal of the competent authority of the firm. In the event of non-receipt of any of the documents forming part of Technical Bid, bidder may be disqualified from the process. No paper relating to the technical bid will be received during the Technical Bid evaluation or afterwards unless specifically called for by the Committee. Further, any separate correspondence in the matter shall also not be entertained.
9. During evaluation of the Technical Bid, the committee will scrutinize the documents mentioned above and may forward any or all the documents to the concerned authorities for verification and authentication. In case of any document(s) as submitted by the bidder is found/reported to be fake, the bidder will be out of the tendering process and suitable legal action may be initiated against the bidder.



॥ सा विद्या या विमुक्तये ॥
भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

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10. The above-mentioned basic eligibility conditions and additional clauses are broad guidelines for pre-qualification and the Director, IIT Dharwad hereby reserves the right to relax/ alter/ modify/ add any or all the conditions.
11. This procurement will be governed by Integrity Pact, which will be monitored by following Independent External Monitors (IEMs):

Shri Anil Kaushal, ITS (Retd.)

A-1/245, GF Janakpuri, New Delhi – 110058

e-mail : kaushal.anil17@gmail.com

Smt Seema Bahuguna, IAS (Retd.)

E-12/7, Vasant Vihar, New Delhi – 110057

e-mail : bahugunaseema@gmail.com



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SECTION-II: ELIGIBILITY CRITERIA:

Only those bidders fulfilling the following Eligibility Criteria (supported by documents) are expected to participate in the Tender (**all criteria to be mandatorily fulfilled for technical qualification**): -

S. No.	Eligibility Criteria	Document required
1.	Proof of establishment of company/business for a period of more than 3 years.	The Bidder must be OEM/an authorized partner/dealer in the business of the supply and installation of the subject equipment as described in Sl.No.2 of page 1 of this document for a period not less than 3 years (i.e., must be in this business from 2018 or earlier). If the Bidder is an authorized partner/dealer, then a Manufacturer's Authorization Form (MAF) must be submitted along with the bid.
2.	Previous experience & copy of performance certificates along with Purchase Orders	The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.
3.	Profitability	The bidder should have been profitable in the preceding three financial years. Income Tax returns for the previous 3 Financial Years to be provided.
4.	Minimum Average Annual Turnover of the bidder (in the last 3 years)	Rs.80,00,000/-
5.	Minimum Average Annual Turnover of the OEM (in the last 3 years)	Rs.3,20,00,000/-
6.	<p><u>Duly filled and completed Section-V</u></p> <ul style="list-style-type: none"> Compliance for commercial terms of tender Compliance for technical specifications of the equipment to be supplied 	<p>The following information on the letter head of the company / bidder:</p> <ul style="list-style-type: none"> Compliance for commercial terms of tender Compliance for technical specifications of the equipment to be supplied



Section - III: General Conditions of Contract

1. Award of Contract:

On identifying L1 vendor, a Letter of Intent will be issued to the L1 vendor. **The L1 vendor has to compulsorily visit the installation site for taking measurements and for obtaining any other necessary inputs.** A committee from IIT Dharwad may visit the factory/production site to assess the capability of the L1 vendor for successful execution of the contract. **PO shall be issued subsequent to satisfactory report submitted by this committee.**

2. Evaluation of Bid:

- a) Technical bids will be evaluated for suitability as per documentary validation, eligibility criteria and technical specifications laid out in this tender document. The bids found suitable will be recommended by the committee and after approval of competent authority shall be deemed as technically suitable offers. The technically qualified bidders will be informed accordingly and commercial bids of such offers will be evaluated on a suitable designated time and date.
- b) Commercial bid will be evaluated by taking into consideration the total cost of all the items quoted and the total cost of comprehensive maintenance contract.
- c) In case any BIDDER is silent on any clauses mentioned in the bid documents, IIT Dharwad shall construe that the BIDDER has accepted the clauses of the tender and no further claim will be entertained.
- d) No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
- e) Price Bid must be in INR only. **PRICE BID must be submitted as per BoQ on GeM**

3. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority in compliance with Dept. of Expenditure Ministry of Finance OM No. F.No.6/18/2019-PPD dt. 23/07/2020 as amended from time to time.

4. Bidders should comply with Public Procurement (Preference to Make in India) order 2017 issued vide DPIIT Order No. 45021/2/2017-B.E-II dated 15/06/2017 as amended from time to time.

5. Corrupt & Fraudulent Practices:

IIT Dharwad requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the terms set forth below are defined as follows:

- a) "Corrupt practice "means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of in kind/value to influence the action of a public official in the procurement process or in contract execution;
- b) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
- c) "Collusive practice" means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, non- competitive levels; and
- d) "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
- e) IIT Dharwad will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.



6. Pre-installation:

Please also mention the pre-installation requirements for the equipment like ambient temperature, humidity, civil work, weather specifications, power specifications, etc. When all items are provided, full performance satisfaction should be demonstrated to IIT Dharwad. The vendor has to physically inspect the site and shall make a note of the actual physical conditions of (ambient temperature, humidity, weather and power availability). The vendor shall be responsible of the correctness of the data and consideration in the design and supply of all equipment accordingly. The vendor shall clearly specify requirement to be provided from IIT Dharwad during the initial visit. The vendor shall inspect all electrical installations, for leak currents, Earthing and required safety of the equipment's, if any and ensure correctness.

7. Training

- a) The BIDDER shall also submit training proposal for the operation and maintenance to the personnel of IIT Dharwad on the offered equipment/machinery.
- b) Wherever needed, personnel of IIT Dharwad should be trained by the supplier at the project site free of cost.

8. Terms of Payment: (For Indigenous Supplies and quotes in INR):

- a) After the material is received at the IIT Dharwad permanent campus site in good condition and on preliminary inspection and recommendation by the committee, up to 50% payment may be released for the items received.
- b) Balance payment within 15 days from the date of delivery, installation, commissioning, demonstration, training, testing and receipt of Acceptance Certificate of concerned Department / Section / Materials Management Division, IIT Dharwad and on submission of Performance Guarantee as per PO terms.

9. Transfer and Subletting:

The seller shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

- 10. Option Clause:** The institute shall reserve the right, but without any obligation to do so, to increase or decrease the ordered quantity up to 25 percentage at any time, till the final delivery date of the contract, by giving reasonable notice and commensurate delivery period, even though the quantity ordered initially has been supplied in part/full before the last date of Delivery Period.

11. Delivery Terms (only DDP mode of shipment acceptable):

Items should be delivered to the specified location in the permanent campus of IIT Dharwad, Karnataka, India – 580011, free of cost. The supplier should arrange for entire process from origin of equipment to the Stores at IIT Dharwad (including charges for safe packing, Marking & labelling, loading charges, road/air freight, insurance of goods, unloading charges, transport & unloading at buyer destination, installation, commissioning, demonstration and training; within the quoted price).

For the purpose of easy tracking of the assets, the successful bidder is required to emboss on the products or fix/rivet metal plates punched (as per the nomenclature provided by IIT Dharwad) on the material to be delivered at IIT Dharwad, at no additional cost

- 12. Freight & Insurance:** No freight and insurance charges will be provided and the materials are to be delivered at IIT Dharwad Permanent Campus, IIT Dharwad at the cost and risk of the supplier/Bidder within quoted price as per the delivery terms mentioned in the above paragraphs.



13. Comprehensive Warranty Condition:

- a) The Bidder/supplier must give a **comprehensive on-site support and maintenance** for a period specified in respect of the subject item (mentioned in Section-IV) from the date of commissioning and acceptance of the items.
- b) The warranty provided shall be comprehensive, meaning, it must include the cost of the spares, materials, manpower and any other incidental expenses thereto.
- c) Any deviation in the equipment and the specification from the accepted terms and conditions may lead to rejection and non-acceptance of stores. In such case, the bidder/manufacture is required to supply all the items in the specified form to the satisfaction/ specifications mentioned in the order and demonstrate at their own cost. The payments shall be made only after receiving the materials as per required specification and quality to the satisfaction of the competent authority of IIT Dharwad.

14. Comprehensive Annual Maintenance Contract (CAMC) condition:

- a) The Bidder/supplier must give a **comprehensive on-site support and maintenance** for a period of 24 months **from the date of expiry of the comprehensive warranty.**
- b) The CAMC shall include the cost of the spares, materials, manpower and any other incidental expenses thereto
- c) Payment of CAMC shall be half yearly basis on satisfactory performance during the respective period.
- d) The cost of the CAMC shall be quoted in the relevant place provided in the commercial bid.

15. Service Centre Condition:

The bidders should have a service centre within the radius of 500 kms from IIT Dharwad, to attend to any service related issues within 24 hours of intimation during the comprehensive warranty / CAMC period.

16. Installation & Demonstration:

- a) The successful bidder is required to carry out the supply, installation, commissioning & demonstration of the subject item at the permanent campus of IIT Dharwad installation site within the delivery period; otherwise, the penalty clause will be the same as per the supply of material (refer to the liquidated damages below).
- b) In case of any mishandling/damage to items and supplies during carriage from the origin of items to the installation site, the successful bidder has to replace it with new items/supplies immediately at his own risk and cost. IIT Dharwad shall not be liable for any type of losses in any form.
- c) Successful bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty period and thereafter as mentioned in the contract.
- d) Installation demonstration to be arranged by the successful bidder within the quoted price and the same is to be done within 15 days of the arrival of the equipment at site or whenever informed by IIT Dharwad.

17. Liquidated Damages: The equipment should be delivered/dispatched to destination and ready for use not later than the delivery period specified. If the supplier/Bidder fails to deliver any or all the stores or perform the service by the specified date, liquidated damages @0.5% per week or part thereof in respect of the value of the delayed stores will be deducted from the bill subject to a maximum of 10% value. Same terms are applicable for installation, training and demonstration clause mentioned above.

18. Dispute and Jurisdiction:

Any legal disputes arising out of any breach of contract pertaining to the whole process of this tender shall be settled in the court of competent jurisdiction in the district of Dharwad, Karnataka.



19. Cancellation of Tender:

- a) Notwithstanding anything specified in this tender document, Purchaser/IIT Dharwad in his sole discretion, unconditionally and without assigning any reasons, reserves the rights:
 - i. To accept or reject lowest tender or any other tender or all the tenders.
 - ii. To accept any tender in full or in part.
 - iii. To reject the tender, offer not confirming to the tender terms.
 - iv. To cancel the tender at any stage during the evaluation & before award of work

20. Force Majeure:

- a) The Supplier shall not be liable for imposition of liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- b) For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- c) If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

- 21. Specification and Samples:** The suppliers shall supply the stores in accordance with the specifications/ descriptions of stores given in the acceptance of tender. The Purchaser reserves the rights to alter the description of stores including drawings given in the acceptance of tender. In the event any such alteration result in any implication to the deliver and price, such implication shall be mutually agreed between the Purchaser and supplier. In case certified sample has been issued by the Purchaser and the Specifications / Drawings also exist in the acceptance of tender then the certified sample will govern the supply to the extent of material, workmanship and finished product

22. Inspections and Tests

- a) The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser.
- b) The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data shall be furnished to the inspectors at no charge to the Purchaser.
- c) Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- d) The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- e) Nothing in this clause shall in any way release the Supplier from any warranty or other obligations under this Contract



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23. **Supervision of Commissioning:**

Successful BIDDER shall depute concerned specialist, for supervision of commissioning of the machine to be carried out. The successful BIDDER shall make necessary arrangement at their own expenses for stay, transport and other expenses of their specialist during their stay in Dharwad which also includes imparting free of cost training to IIT Dharwad personnel.

24. **Performance Guarantee (as per GFR 2017 Rule 171):**

- a) Successful bidder has to furnish 5% of the contract value **(including the cost of CAMC)** as a performance security for a period of 38 months beyond the end of all warranty and maintenance contract related obligations.
- b) Performance Security may be furnished in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial bank, Bank Guarantee from a Commercial bank or online payment in an acceptable form safeguarding the purchaser's interest in all respects as per GFR 2017, Rule 171 and as amended from time to time.



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Section – IV : Additional Conditions of Contract

<i>Sl no</i>	<i>Description</i>
1.	All the equipments shall be supplied with embossed name plate with year of manufacture, make and Asset number as per the nomenclature specified by the Client.
2.	The Scope of work for which the vendor would be responsible is Design, Supply, Installation and commissioning of the all Kitchen equipment including statutory permissions required if any.
3.	The Committee may also visit the manufacturing sites, if need be, to ensure fabrication as per specifications given by IIT, Dharwad, which shall be coordinated by the vendor.
4.	The successful bidder to offer one sample each, wherever necessary, for approval by IIT, Dharwad before effecting/fabricating bulk supply/ordered quantity.
5.	The comprehensive warranty would be for 3 Years from the date of successful installation and commissioning and comprehensive AMC for Next two years. The vendor shall periodically Inspect for every three months and attend any maintenance issues. Except physical damage (after commissioning), all other Damages/ repairs/Non performance would be the responsibility of the Kitchen Vendor for repair and maintenance, No extra charges will be paid on this account. The Incoming power connections, Leakage Current, Earthing shall be inspected before commissioning any observations shall be informed for rectification and ensured before Commissioning.
6.	During the comprehensive warranty/AMC period, the vendor shall attend to any service related issues raised by the institute within 24 hours of intimation. An undertaking to this effect to be given.
7.	The Vendor shall issue the operations and maintenance manual in 5 Hard Copies and Soft Copy for all the equipment. Vendor shall be responsible for providing demo and training as per requirement.
8.	The Spares List Categorizing the Critical Spares and Non- Critical Spares shall be submitted at the time of commissioning.
9.	The Do's and Don'ts Equipment wise shall be Prepared and Submitted.
10.	The Layout and the BOQ of the Equipment shall not Limit the Vendor from Improvising the Facility, Any Minor Modifications shall be Carried out for effective functioning of the facility with the approval of Engineer-in- charge .
11.	The Vendor Shall Inspect the Site to assess the facility and plan all the equipments as per the Original Physical dimensions of the Kitchen, All Supplies shall be Scaled as per the physical dimensions of the site. The vendor has to ensure that all the custom and standard make kitchen equipment are integrated holistically. The Specified Dimensions and arrangements are indicative. The Vendor shall inspect the site before fabrication of the equipment.
12.	The Vendor shall enclose detailed photographs of all the views (front/top/sides/etc) of equipment in their technical bids.
13.	The Minor Connections of Plumbing and Electricity (including providing switches, sockets and CP & plumbing fittings) shall be in the scope of the Vendor.
14.	All The Equipment shall have a Customisable Cable Length as per the Site Requirement.
15.	The Scope of work also includes construction of 120 Sqm Plinth area with truss roof system for Gas Bank and Compost Machine, The scope of Planning, Design, Preparation of working drawings and executions as per the Specifications mentioned shall be in the scope of the vendor, The Vendor shall prepare required working drawings and the same shall be approved by Engineer-in-charge.
16.	The Above mentioned works under Sl No 15 shall be executed as per CPWD Specifications, In case of any dispute the decision of the competent authority shall be final and binding



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Sl no	Description
17.	The bidder must be a Manufacturer or authorized Dealer / Agent of manufacturer of kitchen Equipment. Sub-authorization is not accepted. If the equipment are not manufactured by the core company and purchased by another company, the bidder should submit the detailed statement containing the information regarding the name of the supplier and the detailed specification of the bought out equipment. Approval from IITDh should be obtained for such equipment before supply.
18.	On the award of any work order under this work, the contractor shall immediately proceed with the preparation of working/Shop drawings according to the work order to be carried out. Two sets of such working drawings including make of all items shall be submitted to IITDh for its approval to ensure that work will be carried out in accordance with specification and proposed drawing including such changes as may have been mutually agreed upon. All the drawing shall be submitted to the competent authority for his approval within 07 days of award of work.
19.	Quoted products should not be under end of sales in next 5 years from the date of submission.
20.	Vendor should confirm in writing the availability of the spares and support for all the equipment for a period of ten years even if the model has been phased out.
21.	The layout drawings for Gas Bank, Mess Kitchen, Dormitory Kitchen & Transit Facility Kitchen can be downloaded from the below link: https://drive.google.com/drive/folders/1LIN9He6TvP70IR29sbFmiulKzP1CXKE0?usp=sharing



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Section V – Complete Schedule of Requirements and Compliance

This section has following compliance requirements:

i	Compliance for commercial terms and conditions of tender
ii	Compliance for technical specifications of the equipment to be supplied

i. Table of compliance for commercial terms & conditions of tender (to be filled by bidder)

(NO FIELD TO BE LEFT BLANK)

Sr. No.	Terms and Conditions	IIT Dharwad tender requirements	Response by Bidder M/s _____
1.	Unconditional acceptance to all the Terms and conditions set out herein	Declaration to be provided	
2.	Price Bid Format	BoQ	
3.	Price Bid Currency	INR only	
4.	Delivery terms	only DDP Mode Door Delivery (Refer point 11 of Section-III)	
5.	Freight & Insurance	Refer point 12 of Section-III	
6.	Comprehensive On-site Warranty	Refer point 13 of Section-III	
7.	Installation & Demo	Refer point 16 of Section-III	
8.	GST Rate (If Local supply in India)	Applicable rate @18%	
9.	Training	Refer point 7 of Section-III	
10.	Terms of Payment	Refer point 8 of Section-III	
11.	Performance Guarantee	Refer point 24 of Section-III	
12.	PAN	Copy of PAN required	
13.	GST	Copy of GST certificate required	
14.	ITRs (2018-19 to 2020-21)	Last 3 financial years' ITR required	
15.	Proof of Business existence	For a period of more than 3 years	
16.	Percentage of local content as per DPIIT Order No. 45021/2/2017-B.E-II dated 15/06/2017 as amended from time to time	Declaration to be provided with all relevant details	
17.	Previous Experience (Refer point 2) of Section-II)	Necessary documents to be attached	
18.	Blacklisting status	Submit a declaration in this regard	
19.	OEM Details (MAF/Authorisation from OEM to participate on their behalf)	Please attach the OEM details and MAF/Authorisation from OEM to participate on their behalf	
20.	Bidder should submit company profile including infrastructure available and their complete product range.	Necessary documents/brochures to be provided	



ii. Table of compliance for technical specifications of the equipment to be supplied (to be filled by bidder)

Technical specifications of the equipment as per item described in SI.No.2 of page 1 of this document

Sl.No	Description	Complied Yes / No
1	<p>Supply Installation Commissioning and Demonstration of WORK TABLE WITH ONE UNDERSHELF WITH BACKSPLASH</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. turned back at 90 degrees by 20mm & 12mm,</p> <p>UNDERSHELF 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of undershelf shall be provided with one longitudinal and two cross braces with 35x35x3 mm thick stainless steel AISI 202 grade angle for rigidity. The cross braces shall be welded to uprights.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. Adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Table Top.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges and buffed.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>WORK TABLE WITH ONE UNDERSHELF, Overall Size: 900X600X850+150mm high backsplash</p> <p>Type A</p>	
2	WORK TABLE WITH ONE UNDERSHELF TYPE B , with specification as in SI No. 1 and Overall Size: 1200X600X850+150mm high backsplash	
3	WORK TABLE WITH ONE UNDERSHELF TYPE C , with specification as in SI No. 1 and Overall Size: 1500X600X850+150mm high backsplash	
4	WORK TABLE WITH ONE UNDERSHELF TYPE D , with specification as in SI No. 1 and Overall Size: 1800X600X850+150mm high backsplash	
5	WORK TABLE WITH ONE UNDERSHELF TYPE E , with specification as in SI No. 1 and Overall Size: 2000X600X850+150mm high backsplash	
6	WORK TABLE WITH ONE UNDERSHELF TYPE F , with specification as in SI No. 1 and Size: 2000X750X850+150mm high backsplash	
7	WORK TABLE WITH ONE UNDERSHELF TYPE G , with specification as in SI No. 1 and Overall Size: 2100X600X850+150mm high backsplash	
8	WORK TABLE WITH ONE UNDERSHELF TYPE H , with specification as in SI No. 1 and, Overall Size: 2100X750X850+150mm high backsplash	
9	WORK TABLE WITH ONE UNDERSHELF TYPE I , with specification as in SI No. 1 and, Overall Size: 2400X600X850+150mm high backsplash	
10	WORK TABLE WITH ONE UNDERSHELF TYPE J , with specification as in SI No. 1 and, Overall Size: 2400X750X850+150mm high backsplash	



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SI.No	Description	Complied Yes / No
11	<p>Supply Installation Commissioning and Demonstration of VEGETABLE PEELING TABLE, Overall Size: 1750 X 600 X 850mm+150mm high backsplash and Waste Collection Bin Opening and Bin stand</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. Turned back at 90 degrees by 20mm & 12mm,</p> <p>UNDERSHELF 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of under shelf shall be provided with one longitudinal and two cross braces with 35x35x3 mm thick stainless steel AISI 202 grade angle for rigidity. The cross braces shall be welded to uprights.</p> <p>UPRIGHTS in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. Adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Table Top.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges and buffed.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p>	
12	<p>Supply Installation Commissioning and Demonstration of PREPARATION TABLE WITH SINK and One Under Shelf</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Sunk in Top with Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. turned back at 90 by 20mm & 12mm,</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of under shelf shall be provided with one longitudinal and two cross braces with 35x35x3 mm thick stainless steel AISI 202 grade angle for rigidity. The cross braces shall be welded to uprights.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top.</p> <p>Sink Bowl: Size- 600x600x300mm deep Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, with all bottom & sides edges rounded at 38mm dia the Bowl Welded to Top securely with removal of all holes or burr & finished properly to give a uniform look. Provision of 50 mm dia sunk with drain holes at bottom centre of the bowl and stainless steel coupling with gate valve of 50 mm dia. Sink to be provided with drain basket. Also one nos of pre-rinse spray unit with faucet of Jaquar/Hindware/Washmatic (CP)</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>PREPARATION TABLE WITH SINK & One Under Shelf TYPE A with specification as above and Overall Size: 1800X600X850+150mm ht. (Type A)</p>	
13	<p>PREPARATION TABLE WITH SINK & One Under Shelf TYPE B with specification as at SI.No. 12, Overall Size: 1800X750X850+150mm ht.</p>	



SI.No	Description	Complied Yes / No
14	<p>Supply Installation Commissioning and Demonstration of TABLE WITH SINK & one under shelf with backsplash</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Sunk in Top with Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. turned back at 90 by 20mm & 12mm,</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of under shelf shall be provided with one longitudinal and two cross braces with 35x35x3 mm thick stainless steel AISI 202 grade angle for rigidity. The cross braces shall be welded to uprights.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top.</p> <p>Sink Bowl: Size- 600x600x300mm deep Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, with all bottom & sides edges rounded at 38mm dia the Bowl Welded to Top securely with removal of all holes or burr & finished properly to give a uniform look. Provision of 50 mm dia sunk with drain holes at bottom centre of the bowl and stainless steel coupling with gate valve of 50 mm dia. Sink to be provided with drain basket. Also one no of pre rinse spray unit with faucet of Jaquar/Hindware/Washmatic (CP)</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>TABLE WITH SINK & One Under Shelf TYPE A, Overall Size: 2100X750X850+150mm ht. backsplash (Type A)</p>	
15	TABLE WITH SINK & One Under Shelf TYPE B with specification as at Sl. No14 and Overall Size: 1800X600X850+ 150mm ht. backsplash	
16	TABLE WITH SINK & One Under Shelf TYPE C with specification as at Sl. No14 and Overall Size: 2000X750X850+ 150mm ht. backsplash	
17	TABLE WITH SINK & One Under Shelf TYPE D with specification as at Sl. No14 and Overall Size: 2400X600X850+ 150mm ht. backsplash	
18	TABLE WITH SINK & One Under Shelf TYPE E with specification as at Sl. No14 and Overall Size: 2400X750X850+ 150mm ht. backsplash	



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SI.No	Description	Complied Yes / No
19	<p>Supply Installation Commissioning and Demonstration of TWO SINK PRE WASH UNIT, Overall Size: 1200X600X850mm ht.</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Sunk in Top with Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. turned back at 90 by 20mm & 12mm,</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of the under shelf shall be provided with one longitudinal and two cross braces with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle for rigidity The cross braces shall be welded to uprights,</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Sink Bowls: Size- 450x450mm 300mm deep Two in No. Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, with all bottom & sides edges rounded at 38mm dia the Bowl Welded to Top securely with removal of all holes or burr & finished properly to give a uniform look. Drain basket needs to be provided</p> <p>Fitted at centre of the unit. Provision of 50 mm dia sunk with drain holes at bottom centre of the bowl with Coupling and Gate Valve 50 mm dia. of approved make. And to be provide with one nos. of pre rinse spray unit with faucet and one nos. long body bibcock of Jaquar/Hindware/Washmatic (CP)</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	



SI.No	Description	Complied Yes / No
20	<p>Supply Installation Commissioning and Demonstration of THREE SINK PRE WASH UNIT, Overall Size: 1800X600X850mm ht.</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Sunk in Top with Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash turned back at 90 by 20mm & 12mm,</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of the under shelf shall be provided with one longitudinal and two cross braces with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle for rigidity. The cross braces shall be welded to uprights,</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Sink Bowls: Size- 450x450mm 300mm deep Three in No. Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, with all bottom & sides edges rounded at 38mm dia the Bowl Welded to Top securely with removal of all holes or burr & finished properly to give a uniform look. Drain baskets needs to be provided.</p> <p>Fitted at centre of the unit. Provision of 50 mm dia sunk with drain holes at bottom centre of the bowl with Coupling and Gate Valve 50 mm dia. of approved make. And to be provide with one nos. of pre rinse spray unit with faucet and two nos. long body bibcock of Jaquar/Hindware/Washmatic (CP)</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	
21	<p>Supply Installation Commissioning and Demonstration of DISH LANDING TABLE WITH 1 UNDERSHELF</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Sunk in Top with Two sides & Front to be turned down 38 mm and in 12 mm, With provision for draining of water from the top</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the shelf on two sides welded to uprights,</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>DISH LANDING TABLE WITH 1 UNDERSHELF TYPE A, Overall Size: 1200X450X850mm ht.</p>	
22	<p>DISH LANDING TABLE WITH 1 UNDERSHELF TYPE B with specification as at Sl. No 21 and Overall Size: 2100X750X850 ht.</p>	



SI.No	Description	Complied Yes / No
23	<p>Supply Installation Commissioning and Demonstration of DISH LANDING TABLE WITH 1 UNDERSHELF & SINK</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Sunk in Top with Two sides & Front to be turned down 38 mm and in 12 mm, With provision for draining of water from the top</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the shelf on two sides welded to uprights,</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Sink Bowls: Size- 450x450mm 300mm deep Three in No. Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, with all bottom & sides edges rounded at 38mm dia the Bowl Welded to Top securely with removal of all holes or burr & finished properly to give a uniform look. Drain baskets needs to be provided</p> <p>Fitted at centre of the unit. Provision of 50 mm dia sunk with drain holes at bottom centre of the bowl with Coupling and Gate Valve 50 mm dia. of approved make. And to be provide with one nos. of pre rinse spray unit with faucet and two nos. long body bibcock of Jaquar/Hindware/Washmatic (CP)</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>DISH LANDING TABLE WITH 1 UNDERSHELF& SINK, Overall Size: 2400X750X850mm ht.</p>	
24	<p>Supply Installation Commissioning and Demonstration of TRAY RECEIVING TABLE, Overall size = 1500 X 750 X 850mm</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. turned back at 90 by 20mm & 12mm,</p> <p>UNDERSHELVES: 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, directly to Uprights.</p> <p>UPRIGHTS in 38 mm dia.X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 grit (mesh) size uniformly to give an aesthetically pleasant look.</p>	



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SI.No	Description	Complied Yes / No
25	<p>Supply Installation Commissioning and Demonstration of PLATE WIPING TABLE, Overall Size: 1500X750X850mm +150mm ht. backsplash</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Two sides & Front to be turned down 38 mm and in 12 mm, & Back side 100 mm high back splash. turned back at 90 by 20mm & 12mm,</p> <p>UNDERSHELVES: 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, directly to Uprights.</p> <p>UPRIGHTS in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	
26	<p>Supply Installation Commissioning and Demonstration of CHOPPING BLOCK WITH BACKSPLASH</p> <p>TOP: Heavy Duty White Nylon Block of 25mm thickness embedded in Stainless Steel 16SWG AISI 304 grade top sheet with Front to be turned down 38 mm and in 12 mm, & Back side 150 mm high back splash. turned back at 90 by 20mm & 12mm</p> <p>UNDERSHELVES: 1 in No. to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, directly to Uprights.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Knife Pocket of size 150 x 75 x 150mm deep One in No. Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, fixed to side of Top securely to hold all types of Butchers' Knives.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>CHOPPING BLOCK, Overall Size: 450X450X850+150mm ht. backsplash</p>	



SI.No	Description	Complied Yes / No
27	<p>Supply Installation Commissioning and Demonstration of BULK FRYER With Dual Option of Gas Cum Electric Based, Overall Size: 750X750X750+250mm ht.</p> <p>TOP: Sunk in to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Two sides & Front to be turned down 38 mm and in 12 mm, Frying Bowl Fabricated in 8 mm thick Mild Steel Plate of 600mm dia x 150mm deep with a border of 75mm in 14SWG Stainless Steel AISI 304 Grade Sheet with lifting Handles, Embedded in top stainless steel front control panel with 18 SWG</p> <p>SIDE SKIRTING: in 18SWG Stainless Steel AISI 304 Grade Sheet. UPRIGHTS in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment and bracing all-round with 25 mm dia 16SWG thick Stainless Steel AISI 304 grade pipe welded to uprights at 150 mm from FFL.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade. BURNERS & FITTINGS: One no. T -50 burner provided with Individual Pilot Burner, Needle Control Valve (3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class of approved make (Thermostat for accurate temperature setting * Residue plate for filtering out the dregs tank as required Dimension overall. With required heating elements.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p>	
28	<p>Supply Installation Commissioning and Demonstration of BULK FRYER with Dual Option of Gas Based Cum Electric, Overall Size: 600X600X750+250mm ht.</p> <p>TOP: Sunk in to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Two sides & Front to be turned down 38 mm and in 12 mm, Frying Bowl Fabricated in 8 mm thick Mild Steel Plate of 500mm dia x 150mm deep with a border of 75mm in 14SWG Stainless Steel AISI 304 Grade Sheet with lifting Handles, Embedded in top stainless steel front control panel with h18 SWG</p> <p>SIDE SKIRTING: in 18SWG Stainless Steel AISI 304 Grade Sheet. UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment and bracing around with 25 mm dia 16SWG thick Stainless Steel AISI 304 grade pipe welded to uprights at 150 mm from FFL.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade. BURNERS & FITTINGS: One no. T -50 burner provided with Individual Pilot Burner, Needle Control Valve (3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class of approved make. (Thermostat for accurate temperature setting * Residue plate for filtering out the dregs tank as required Dimension overall. With required heating elements.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p>	



SI.No	Description	Complied Yes / No
29	<p>Supply Installation Commissioning and Demonstration of STOCK POT RANGE, Overall Size:600X600X750mm ht.</p> <p>TOP: to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm.</p> <p>SIDE SKIRTING: in 18SWG Stainless Steel AISI 304 Grade Sheet.</p> <p>UNDERSHELF: One no. with 25 mm dia pipe around and 20 mm dia pipe @ 150 mm c/c (16 SWG) along the length of the unit welded to uprights at 150 mm from FFL</p> <p>CROSS BRACINGS: in 25mm diaX16SWG thick Stainless Steel AISI 304 grade pipe at 150mm from bottom.</p> <p>DRIP TRAY: independent below each burner in 18SWG Stainless Steel AISI 304 Grade Sheet.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade.</p> <p>PAN SUPPORTS: independent for each burner, 450x450mm Square ring with 8 support flanges both in Cast Iron.</p> <p>BURNERS & FITTINGS: One no. T -50 burner, One no. M - 50 burner each burner provided with Individual Pilot Burner, Needle Control Valve (3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class and Flexible Hose with Connectors</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	
30	<p>Fabrication, supply and installation of Chapati plate with puffer. Size - 1200x900x850+150mm ht backsplash</p> <p>Unit to have top made of 16g SS 304 sheet with 150mm high backsplash having 18mm radius bend</p> <p>Unit to have MS plate of 16mm thk & perforated MS plate of 16mm on RHS of the unit to suit baking of chapattis</p> <p>Unit to have sides and back 19swg</p> <p>Front panel to be of 18swg & house control valves for pilot and burner</p> <p>Unit to have pilot lamp lighting aperture</p> <p>Unit provided with 'V' type burners & one 'V' burner for puffer placed depth wise with necessary control in front for independent operation.</p> <p>Unit to have 1 under storage of 18swg SS 304 sheet filled with 150mm wide SS 304 sheet stiffeners</p> <p>Unit to be provided with gas inlet from both rear sides</p> <p>Unit rear legs to be inset by 150mm to allow gas pipe to run below</p>	



SI.No	Description	Complied Yes / No
31	<p>Supply Installation Commissioning and Demonstration of DOSA PLATE with backsplash TOP: Griddle Plate in 20mm thick Mild Steel with two nos. of handles with 20 mm dia MS bar, All sides shall be provided with oil drip channel of size 50mm wide x 35mm deep with a oil drain on front side, A Splash Guard of 150mm turned back 20mm & down 20mm The drip channel and splash guard both to be fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet. SIDE SKIRTING: In 18SWG Stainless Steel AISI 304 Grade Sheet, Provision of Ignition window in front skirting of size 150x150 on one side centre for burner ignition. UNDERSHELF: One no. full length and full width in 18SWG Stainless Steel AISI 304 Grade Sheet welded at 150 mm from FFL with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the under shelf on two sides welded to uprights. UPRIGHTS: in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. INTERNAL FRAMEWORK: in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade. BURNERS & FITTINGS: Four nos. 600 mm long V- type burners of approved make, with individual Needle Control Valve (3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class with Flexible Hose of approved make. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look. DOSA PLATE TYPE A, Overall Size:1500X750X850mm ht. + 150 mm backsplash</p>	
32	<p>DOSA PLATE TYPE B with specification as at Sl. No 31 and Overall Size:1200X750X850mm ht. + 150 mm backsplash</p>	
33	<p>Supply Installation Commissioning and Demonstration of TWO BURNER INDIAN GAS RANGE, Overall Size: 1200X600X750mm ht. TOP: to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. SIDE SKIRTING: in 18SWG Stainless Steel AISI 304 Grade Sheet. UNDERSHELF: One no. with 25 mm dia pipe around and 20 mm dia pipe @ 150 mm c/c (16 swg) along the length of the unit welded to uprights at 150 mm from FFL DRIP TRAY: independent below each burner in 18SWG Stainless Steel AISI 304 Grade Sheet. UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. INTERNAL FRAMEWORK in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade. PAN SUPPORTS: independent for each burner, 450x450mm Square ring with 8 support flanges both in Cast Iron. BURNERS & FITTINGS: One no. T -35 burner, One no. M - 35 burner, each burner provided with Individual Pilot Burner, Needle Control Valve (3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class with Flexible hose and connectors. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p>	



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SI.No	Description	Complied Yes / No
34	<p>Supply Installation Commissioning and Demonstration of THREE BURNER GAS RANGE, Overall Size: 1800X600X750mm ht.</p> <p>TOP: to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm.</p> <p>SIDE SKIRTING: in 18SWG Stainless Steel AISI 304 Grade Sheet.</p> <p>CROSS BRACINGS: in 25mm diaX16SWG thick Stainless Steel AISI 304 grade pipe at 150mm from bottom.</p> <p>DRIP TRAY: independent below each burner in 18SWG Stainless Steel AISI 304 Grade Sheet.</p> <p>UNDERSHELF: One no. with 25 mm dia pipe around and 20 mm dia pipe @ 150 mm c/c (16 swg) along the length of the unit welded to uprights at 150 mm from FFL</p> <p>UPRIGHTS in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade. PAN SUPPORTS: independent for each burner, 450x450mm Square ring with 8 support flanges both in Cast Iron.</p> <p>BURNERS & FITTINGS: One no. T -50 burner, One no. M - 50 burner, One no. G - 14 burner, each burner provided with Individual Pilot Burner, Needle Control Valve (3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class With Flexible Hose and connectors of approved make</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	
35	<p>Supply Installation Commissioning and Demonstration of IDLY STEAMER, 300 IDLIS capacity</p> <p>All three boxes of 80 idlies each in 1x3 configuration Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, Each Box shall hold 4 no of Trays with 20 pockets of 90mm dia x 7mm deep for idlies made from 19SWG Stainless Steel AISI 304 Grade Sheet, Backed with drip trays made from 21SWG Stainless Steel AISI 304 Grade Sheet,.</p> <p>The inner and outer walls of the unit on all sides shall be filled with 75 mm thick non-sagging mineral glass wool. The door shutters of all three boxes shall be provided with 16 SWG double wall stainless steel sheet with 40 mm thick mineral glass wool in- between. The doors shall be provided with hard rubber beading around ,tightly closing handles in stainless steel with a PVC knob at the end of the handle rod and a separate knob/ handle at the centre of the shutter.</p> <p>UPRIGHTS: The boxes shall be integrally built one upon another and mounted on a stand .The uprights of the stand shall be in 38 mm dia.X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>The unit shall rest on the frame work of stand with 50x50x5 mm stainless steel angle of 202 grade. A drain channel of size 65x65 mm made with 18 swg stainless steel AISI 304 grade shall be provided at the bottom of the unit to collect the seepage water from boxes. A 12 mm dia stainless steel spout shall be welded at one end of the drain</p> <p>Will have built in water tank. The heating will be done by V-burner.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p>	
36	<p>Supply Installation Commissioning and Demonstration of IDLY STEAMER, 50 IDLIS capacity</p> <p>Body and idli tray made of SS 304, should be suitable to be used on any normal burner range</p>	



SI.No	Description	Complied Yes / No
37	<p>Supply Installation Commissioning and Demonstration of STEAM BULK COOKER, 100 Ltr. capacity.</p> <p>Inner Chamber is to be Fabricated from 12SWG Stainless Steel AISI 304 Grade Sheet, with the Jacketed double walled outer body to be Fabricated from 10SWG Stainless Steel AISI 304 Grade Sheet,</p> <p>The unit is fitted with all the necessary accessories viz., Pressure Gauge, Water Level Indicator Glass Assembly, safety valve to regulate the excess steam pressure, firing chamber with door and nipples for water inlet and steam outlet, drain valve and smoke vent and manual tilting mechanism for the vessel</p> <p>UPRIGHTS: in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK: in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look. Shall be provided with steam supply line to the bulk cooking units with heavy duty stainless steel pipe line wrapped with white insulation fabric, control valves at all bulk cooking units.</p> <p>The quoted rate includes the cost of SS pipe line for supply of steam to bulk cooking units, insulation fabric control valves at all bulk cooking units, other accessories complete.</p>	
38	<p>Supply Installation Commissioning and Demonstration of STEAM BOILER LPG OPERATED, Overall size = 900 x 900 x 1800</p> <p>The INNER BOILING CHAMBER Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, PROVISION OF 12mm water inlet, 12mm outlet faucet (non leaking, heat resistant), glass water level indicator, etc Should meet the requirements of 400ltrs of steam cookers</p> <p>OUTER CLADDING & TOP LID Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet,</p> <p>BURNERS & FITTINGS: Three Two nos. T - 65 burners, Pilot Burner, Needle Control Valve(3/8 BSPTM X 3/8 Cu), Copper Pigtail (Suitable Length) internal gas pipeline of 12 mm dia. NB with ERW mild steel pipe 'C' Class with Flexible Hose and connectors of approved make</p> <p>INSULATION with Non Sagging Glass wool, ELECTRICAL:1 X 3 KW Single Phase Water Immersion heater, On / Off Switch, Indicator Lamps, Thermostat (ambient - 110 C range)</p> <p>Gauge glass assembly to indicate the water level, valve assembly to regulate water level, SS funnel for emergency water inlet</p>	
39	<p>Supply Installation Commissioning and Demonstration of LPG OPERATED BULK COOKER, 100 Ltr. capacity.</p> <p>Inner Chamber is to be Fabricated from 12SWG Stainless Steel AISI 304 Grade Sheet, with the Jacketed double walled outer body to be Fabricated from 10SWG Stainless Steel AISI 304 Grade Sheet,</p> <p>The unit is fitted with all the necessary accessories viz., Pressure Gauge, Water Level Indicator Glass Assembly, safety valve to regulate the excess steam pressure, firing chamber with door and nipples for water inlet and steam outlet, drain valve and smoke vent and manual tilting mechanism for the vessel</p> <p>UPRIGHTS: in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK: in 35X35X3mm Angle, 25x3 mm thick Flat in Stainless Steel AISI 202 Grade.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look. Shall be provided with steam supply line to the bulk cooking units with heavy duty stainless steel pipe line wrapped with white insulation fabric, control valves at all bulk cooking units.</p> <p>Burner - Should be fitted with high pressure spreader burner with pilot burner with separate needle control valve</p>	



SI.No	Description	Complied Yes / No
40	<p>Supply Installation Commissioning and Demonstration of ELECTRICAL HOT BAIN MARIE WITH TRAY RAIL</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Bain Marie Tank Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet with 12mm water inlet & outlet.</p> <p>UNDERSHELVES: 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of the under shelf shall be provided with one longitudinal and two cross braces with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle for rigidity. The cross braces shall be welded to uprights</p> <p>UPRIGHTS in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Tray Rail 300 mm wide Fabricated from 25x25 mm square tubes of 18SWG Stainless Steel AISI 304 Grade spaced at 75 mm c/c mounted on 25x25 mm 16 swg Stainless Steel Brackets provided at 500 mm c/c. Side Cladding from 18SWG Stainless Steel AISI 304 Grade Sheet. Seven nos. 200 mm deep GN Pans with stainless steel lids for Bain Marie.GN pans shall be made of 22 swg stainless steel AISI 304 grade.</p> <p>Two nos. Electrical Water immersion heaters of 3KW each at bottom of Bain Marie Tank single phase with individual controls, indicator Lamps & thermostats. The back side of the Bain Marie tank shall be fixed to the unit with SS crews for facilitating removal in case of maintenance. PLUMBING: Drain off with lever operated handle, over flow socket connected to drain off. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.</p> <p>ELECTRICAL HOT BAIN MARIE WITH TRAY RAIL TYPE A, Overall Size: 2100X900X750mm ht.</p>	
41	<p>ELECTRICAL HOT BAIN MARIE WITH TRAY RAIL TYPE B with specification as at Sl. No 41 and, Overall Size: 2400X900X750mm ht.</p>	
42	<p>Supply Installation Commissioning and Demonstration of ELECTRIC HOT BAIN MARIE, Overall Size: 2400X675X750mm ht.</p> <p>TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Bain Marie Tank Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet with 12mm water inlet & outlet.</p> <p>UNDERSHELVES: 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of the under shelf shall be provided with one longitudinal and two cross braces with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle for rigidity. The cross braces shall be welded to uprights</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Tray Rail 300 mm wide Fabricated from 25x25 mm square tubes of 18SWG Stainless Steel AISI 304 Grade spaced at 75 mm c/c mounted on 25x25 mm 16 swg Stainless Steel Brackets provided at 500 mm c/c. Side Cladding from 18SWG Stainless Steel AISI 304 Grade Sheet. Seven nos. 1/1x 200 mm deep GN Pans with stainless steel lids for Bain Marie.GN pans shall be made of 22 swg stainless steel AISI 304 grade.</p> <p>Two nos. Electrical Water immersion heaters of 3KW each at bottom of Bain Marie Tank single phase with individual controls, indicator Lamps & thermostats. The back side of the Bain Marie tank shall be fixed to the unit with SS crews for facilitating removal in case of maintenance. PLUMBING: Drain off with lever operated handle, over flow socket connected to drain off. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be</p>	



SI.No	Description	Complied Yes / No
	used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.	
43	Supply Installation Commissioning and Demonstration of CONDIMENT COUNTER WITH 1 U/S & TRAY RAIL, Overall Size: 1500X900X750mm ht. TOP: of the Table is to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet Sides - The front and shorter sides to be fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet from the table top to the under shelf UNDERSHELVES: 1 in No. full length and full width to be Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet, All sides to be turned down 38 mm and in 12 mm. Welded at 150mm from Bottom of Unit, The bottom of the under shelf shall be provided with one longitudinal and two cross braces with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle for rigidity. The cross braces shall be welded to uprights UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. INTERNAL FRAMEWORK in 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the Top. Tray Rail Fabricated from 18SWG Stainless Steel AISI 304 Grade Sheet with corrugated top mounted on Stainless Steel Brackets. Side Cladding from 19SWG Stainless Steel AISI 304 Grade Sheet. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look.	
44	Supply Installation Commissioning and Demonstration of SS BAKERY DISPLAY 18SWG exterior and 22SWG interior with 2 No of SS304 shelves Lift up tempered front glass with shower hinge, rear removable sliding door, aluminium light canopy with polycarbonate diffuser, LED light, changeable front and side panel, Operating temperature of 2-8 degree Celsius, Forced Draft Technology - Cooling Coil with fans for proper in and out air circulation SS BAKERY DISPLAY TYPE A , Overall size = 1200 X 900 X 1200mm	
45	SS BAKERY DISPLAY TYPE B with specification as at Sl. No 44 and Overall size = 2400 X 900 X 1200mm	
46	Supply Installation Commissioning and Demonstration of POT RACK, Overall Size: 1500X600X1500mm ht. SHELVES: 3 in No. to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Rear & Two sides to be turned up 38 mm at 90 and in 12 mm for chipping bend. Front Side turned down 38 mm at 90 and in 12 mm Bottom Shelf Welded at 150mm from Bottom of Unit, Second at 500mm from bottom, Top Shelf at the Top of Upright & Rest Equidistant to top & Second Shelves. All shelves shall be braced with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the shelf on two sides welded to uprights, UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look	



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SI.No	Description	Complied Yes / No
47	<p>Supply Installation Commissioning and Demonstration of THALLI STAND</p> <p>Unit to entire frame work to be made of 38*38mm*16g square pipe frame work fitted with 10mm dia rod at clear distance of 50mm</p> <p>Unit to have provision of shelves to hold plate size - 40x30cm and water drain point at the bottom rack</p> <p>Thalli stand will be placed against the wall along the longer side</p> <p>Unit to have legs of 38*38mm*16g and should have 150mm metal revolving castors 4 nos. of which two are lockable</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look</p> <p>THALLI STAND TYPE A 1500mm ht of Capacity 200 thalli</p>	
48	<p>THALLI STAND TYPE B 1500mm ht of Capacity 300 thalli</p>	
49	<p>Supply Installation Commissioning and Demonstration of 4 SHELVES DRY ROOM STORAGE RACKS, Overall Size: 900 X 375 X 1500mm ht.</p> <p>SHELVES: Four in No. to be Fabricated from 16 SWG Stainless Steel AISI 304 Grade Sheet, Rear & Two sides to be turned up 38 mm at 90 and in 12 mm for chipping bend. Front Side turned down 38 mm at 90 and in 12 mm Bottom Shelf Welded at 150mm from Bottom of Unit,</p> <p>INTERNAL FRAMEWORK: The bottom of under shelf shall be provided with one longitudinal and two cross braces with 35x35x3 mm thick stainless steel AISI 202 grade angle for rigidity. The cross braces shall be welded to uprights. Top shelf at the top of upright & centre equidistant to top & bottom shelves. Second at 500mm from bottom of unit, Top Shelf at the Top of Upright & Rest Two Equidistant from top & Bottom Shelves.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	
50	<p>Supply Installation Commissioning and Demonstration of 4 SHELVES COLD ROOM STORAGE RACKS, Overall Size: 900 X 375 X 1500mm ht.</p> <p>SHELVES: Four in No. to be Fabricated from 16 SWG Stainless Steel AISI 304 Grade Sheet, Rear & Two sides to be turned up 38 mm at 90 and in 12 mm for chipping bend. Front Side turned down 38 mm at 90 and in 12 mm Bottom Shelf Welded at 150mm from Bottom of Unit,</p> <p>INTERNAL FRAMEWORK: The bottom of under shelf shall be provided with one longitudinal and two cross braces with 35x35x3 mm thick stainless steel AISI 202 grade angle for rigidity. The cross braces shall be welded to uprights. Top shelf at the top of upright & centre equidistant to top & bottom shelves. Second at 500mm from bottom of unit, Top Shelf at the Top of Upright & Rest Two Equidistant from top & Bottom Shelves.</p> <p>UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment.</p> <p>WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges.</p> <p>FINISH: All plain & pipe surfaces should be finished brush / satin finish with 120 gritt (mesh) size uniformly to give an aesthetically pleasant look.</p>	



SI.No	Description	Complied Yes / No
51	Supply Installation Commissioning and Demonstration of PLATE DISH RACK SHELVES: 5 in No. to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Rear & Two sides to be turned up 38 mm at 90 and in 12 mm for chipping bend. Front Side turned down 38 mm at 90 and in 12 mm Bottom Shelf Welded at 150mm from Bottom of Unit, Second at 500mm from bottom, Top Shelf at the Top of Upright & Rest Equidistant to top & Second Shelves. All shelves shall be braced with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the shelf on two sides welded to uprights, UPRIGHTS in 38 mm dia X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look Supply Installation Commissioning and Demonstration of PLATE DISH RACK TYPE A , Overall Size: 2000X450X1800mm ht.	
52	Supply Installation Commissioning and Demonstration of PLATE DISH RACK TYPE B with specification as at Sl. No 51 and Overall Size: 900X450X1800mm ht.	
53	Supply Installation Commissioning and Demonstration of POT/UTENSIL RACK SHELVES: 4 in No. to be Fabricated from 16SWG Stainless Steel AISI 304 Grade Sheet, Rear & Two sides to be turned up 38 mm at 90 and in 12 mm for chipping bend. Front Side turned down 38 mm at 90 and in 12 mm Bottom Shelf Welded at 150mm from Bottom of Unit, Second at 500mm from bottom, Top Shelf at the Top of Upright & Rest Equidistant to top & Second Shelves. All shelves shall be braced with 35X35X3mm thick Stainless Steel AISI 202 Grade Angle below the shelf on two sides welded to uprights, UPRIGHTS in 38 mm dia. X 16SWG thick Stainless Steel AISI 304 grade pipe fitted with White Nylon Bullet Leg with 25mm ht. adjustment. WELDING: should be done by Argon Arc /Tig welding only. No Electrical Arc Welding should be used. All the welded edges, surfaces should be properly & smoothly ground & finished to remove any burr or sharp edges. FINISH: All plain & pipe surfaces should be finished brush uniformly to give an aesthetically pleasant look UTENSIL RACK TYPE A Overall Size: 1700X450X1800mm ht. (Type A)	
54	UTENSIL RACK TYPE B with specification as at Sl. No 53 and Overall Size: 2000X450X1800mm ht. (Type B)	
55	Design supply installation and Commissioning of AIR CURTAINS Design, supply, installation & Commissioning in place of air curtain unit of air velocity in the range of 10-20m/s. Should be fitted with an aluminium tangential flow fan, which gives high air velocity with minimum power input. Construction should be of MS powder coated with grills of ABS plastic. Width of the openings where Air curtains will be used 2.135m - 6Nos, 2m - 1Nos, 1.65m - 1Nos, 1.75m - 2Nos, 1.55m - 4Nos, 1.2m - 4Nos, 1.0m - 2Nos Opening width are provided, vendor must ensure that the air curtains are provided as per site requirement and fully functional. Nothing extra shall be paid in this regards.	
56	Supply Installation Commissioning and Demonstration of SPOON STERILIZER Of SS304 make. Electric spoon sterilizer for spoons equipped with thermostat and rotary switch for quick response time. Supply Installation Commissioning and Demonstration of spoon sterilizer TYPE A (300 spoons at a time)	
57	Supply Installation Commissioning and Demonstration of spoon sterilizer TYPE B with specification as at Sl. No 56 and to sterilize 150 spoons at a time.	



SI.No	Description	Complied Yes / No
58	<p>Supply Installation Commissioning and Demonstration of PLATFORM TROLLEY Size 900*600*1000mm. Unit have to have SS handle of 32mm dia SS round pipe of 16swg SS flat strength support on both side. Unit to be SS sunken top. Unit shall be made of suitable gauge SS 304 Under construction shall be of SS 304 with 150mm dia, noise free SS framed rubberised castors. 2 castors to have locking arrangement The platform shall be mounted on SS304 angle frame with horizontal cross support. The trolley shall be able to carry a maximum weight of 600Kg. Rubber guard on all side edges to be provided to prevent from damage to wall corner, in case of banging</p>	
59	<p>Supply Installation Commissioning and Demonstration of THALLI TROLLEY Unit to entire frame work to be made of 38*38mm*16g square pipe frame work fitted with 10mm dia rod at clear distance of 50mm Unit to have provision of shelves to hold 100 steel thalli(plate)at one time Unit to have 18g SS 304 one under shelf at +150mm ht Unit to have legs of 38*38mm*16g and should have 150mm metal revolving castors 4 nos. of which two are lockable</p>	
60	<p>Supply Installation Commissioning and Demonstration of RAPID COMPOSTING MACHINE For all Organic waste – tress leaves, canteen, Horticulture waste, nutrient salts Heating system - Warm air blower with thermostat to maintain temperature at 45-60 degrees C Bio culture -Aerobic Thermophilic-based Bacteria Time duration - Waste can be removed after 8-10 hours from machine for further maturation within a week Material of vessel and shaft - SS – 304 of suitable thickness Material of body cover - MS with powder coating of 60DFT Waste chopper - Can share waste up to input of 50mm with output 1mm Electric Motor for Chopper HP - Can be as per the design for effective functioning Electric Motor Power Rating for Air Blower - Compatible with blower capacity Power requirement - 440 V, 3-phase PLC with HMI, Programming, real time waste processing data analysis, with Battery Charger Motor and Blower should have overload and current protection Odour Control Powder/agent available Output compost Quality as per Fertilizer standards - Random test results should meet: PH-6.5-7.2, Nitrogen(N)%-1,Phosphate(P)%-1,Potassium(K)%-0.8,C:N ratio 3:7 Shouldn't produce any Harmful gases like Ammonia, Sulphur di-oxide, Methane, Carbon di-oxide as per stipulated guidelines of CPCB & SWM Rules, 2016 Emergency switch, Overload indication should be available CAPACITY IN KGS PER BATCH - 200Kg Blower - 500cfm Running hours per batch - 8-10hours Area required in sq ft - < 300sft Approximate manpower required per day - 1nos Approximate Power Consumption per day - < 10 units per batch Approximate Overall Dimensions (L X W X H in ft) - Not exceeding 5X5x5</p>	



SI.No	Description	Complied Yes / No
61	Design, supply, testing and installation of GAS MANIFOLD SYSTEM for the Kitchens at Mess block, Transit LPG line with GAS BANK with gas manifold (with working+standby cylinder provision) with required fittings like NRV, cylinder adapter (click on type) with flexible pipe. LPG cylinder bank of commercial LPG cylinder with: 'C' class seamless steel pipe conforming to IS:1239 : 2" for gas bank pipe laying and 1" for rest pipe laying, with twin stage Pressure regulator - Upto 30 PSI (dial type) and supported with wall by providing adequate supports spacing not more than 1.5 mtr., fitted with flanges & accessories and isolation valves having ball valves of approved makes with LPG installation certificate having carbon steel body, SS ball and PTFE seat and all other fittings such as tees, reducers, unions, elbows etc. The piping shall be joined through welding by using welding electrode of ISI marked only. Care must be taken to prevent rusting of piping installation by providing red oxide primer coating and suitable sleeve of GI/wood shall be provided wherever the pipes are crossing through the walls/slabs etc. There should be a main gas shut off valve inside and outside the gas bank to isolate the LPG supply in case of emergency. The main pipeline should run upto the kitchen area and from there it will be distributed to all the kitchen equipment with a 2nd stage regulator of United make. There should be a pressure gauge with a needle control valve installed inside the kitchen. On completion, the LPG manifold complete with all accessories and individual components which are subjected to cylinder pressure shall be capable of withstanding a test pressure twice the working pressure. All the accessories, components used for installation of LPG pipeline system shall have the approval from Oil company i.e. IOCL/HP/BP. Isolation/shut off valves shall be ball valves with installation certificate for use in LPG pipelines and shall have carbon steel body, stainless steel ball and PTFE seat. The work includes supply, installation, testing and commissioning of LPG manifold and supply system with at least two coat paints as per LPG color norms. The items covered under scope of works shall include all those ancillary items which may be required to complete the work in all respect whether specifically mentioned or not. Fire fighting arrangements for LPG bank should be as per the guidelines of statutory body/local authority/local government. Obtaining Statutory Clearances from Local body will be the responsibility of Vendor and all charges shall be Borne from the Vendor. All the required safety valves and Meters shall be Provided as per the Layout requirement. The vendor should design and plan for all the LPG operated equipment nothing extra shall be given in this regard.	
	For Mess Block, The manifold shall be capable to hold 4sets of 8 Nos Cylinders as Working and 8 Nos Cylinders as Standby. The system shall be planned to operate as a single system/should be able to connect the cylinders for each kitchen individually. (Type A)	
62	Transit Facility with Connected cylinders (5 cylinder per manifold) (Type B)	
63	Dormitory for Connected Cylinders (3 cylinder per manifold) (Type C)	
64	Design, supply, installation and commissioning of GAS LEAKAGE DETECTION SYSTEM for kitchen and gas bank Flameproof sensing modules with digital display showing % of leak, controller with graphic LCD display, 3 level alarm thresholds and all sensors addressable expandable upto 60 sensors, output for automatic shutoff, BMS connectivity. No of sensors is to be determined by the size of the kitchen and gas bank and as approved by Engineer-in-Charge.(4 Kitchens of different sizes & capacities Refer Drawings attached for details).	
65	Design, supply, installation commissioning and demonstration of COMMERCIAL EXHAUST HOOD SYSTEM SS exhaust hood with baffle filters of made of 20swg SS304 with SS bolts and nuts. The hood shall have thick SS304 baffle type filters with handle. There shall be 14swg SS202 brackets to hang the hood from the ceiling. Fire suppression system, of make- ceasefire, ansul or amrex, shall be provided in hood. Provision to clean the carbon soot accumulated. For illumination, there shall be 4 nos of 2x40-220v-1ph LEDs fitted in each hood. Fan and Necessary Ventilation Ducting System shall be Done by Ventilation Vendor(Client side), Only the Hood System needs to be supplied and installed.	



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SI.No	Description	Complied Yes / No
66	Planning, design, Supply and Construction of GALVALUME SHEET Covered Shed for the Installation of Composter and Gas Bank at Mess Block Service shed for the Gas Bank, Rapid Composting Machine & Toilet. For complete SCOPE OF WORK please refer to ATC (refer below)	
67	Dormitory and transit gas bank with MS grill of 15Kg/sqm, Galvalume sheet roofing and block work pedestal of 300mm ht from the FGL	

We, M/s _____ comply with the above requirements.

(Authorised signature & seal of the bidder)



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SCOPE OF WORK

Gas bank, Compost Area and workmen Bathrooms
(Only Ground Floor-Composite Structure)

General

The building is (G) single storeyed composite structure with columns, beams, Grade slabs, Structural work with sheeting including electrification and earthing etc. Construction using M-25 to M-30 grade reinforced cement Concrete as recommended by structural designer in structural drawings. The work, in general, has to be planned and executed as per Conceptual drawings attached with tender. All the working, structural and service drawings to be prepared & submitted by the agency as per specifications. However, if there are any missing details/ discrepancies, the agency has to submit necessary working drawings considering the minimum specifications stated below and user requirements in general. No additional time and extra amount shall be considered on this account.

AREA DETAILS

Sl. No	Description	Area in Sqm	Floor height	Facilities
1	Ground Floor	120	3.20 M	Entrance Platform, Gas bank room, Composter room, Approach Ramps, Unloading platforms, Plinth Protection Toilets, etc.

MINIMUM SPECIFICATIONS

Sl. No.	Items of Work	Specifications
1.	Building structure	
1.1	Foundation & Super structure	Earth work excavation in foundation trenches for desired level (minimum 2.5 m) shall be as per structural drawing. However, care shall be taken to ensure to support the footings on firm strata as per minimum SBC specified in structural drawings. Any deviation in earth work will be ignored and nothing extra shall be paid. Filling available excavated earth shall be used in sides of foundation & under floor, if found suitable, otherwise filling to be done by bringing earth suitable for filling from outside and disposal of surplus unusable earth / malba out of the campus, if required, and nothing extra shall be paid towards the same. Top soil of thickness 30 to 40 cm will be preserved for horticulture purpose with in the campus at the designated place and filling the same wherever required and nothing extra shall be paid towards the same.



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		<p>Foundation shall be with RCC isolated, footing as per structural drawing using specified grade of concrete.</p> <p>All structural members like footings, Columns, Beams, slabs etc. shall be provided with specified grade of concrete.</p> <p>All opening on masonry wall shall be provided with RCC lintels, RCC bands / lintel over top of parapet wall at corridors, balconies etc. with specified grade of concrete as shown in the drawing or as approved by Engineer-in-Charge.</p> <p>The shuttering shall be used as per CPWD specifications and as approved by Engineer-in-Charge.</p>
1.2	Plinth Filling: Sand filling under floor Concrete under footings RCC under floors	<p>With river sand 150mm thick 75 mm thick lean concrete below footing / raft in M15. 100 mm thick RCC of grade M20 shall be laid under flooring work in ground floors with reinforcement of 8 mm dia TMT bars of Grade Fe500D @ 300 mm c/c both ways.</p>
1.3	Railing in staircase/ Balcony / Corridor	1.20 m high railing with SS 304 grade stainless steel of 50 mm dia. of 18-gauge handrail with adequate rods parallel to handrail, balusters, flanges, end caps, newel posts with caps etc. complete as per approved drawings and direction of Engineer – in – charge.
1.4	Filler Walls	Block work with AAC blocks shall be executed with 200 mm (external walls) / 150 mm (internal walls) using AAC block joint adhesive of 3 to 5 mm thickness. RCC band of minimum 100 mm thick at window sill level & lintel level shall be provided.
2.	DOOR FRAME & SHUTTER	
2.1	GI Door frames and shutters, GI Door frames and louvered shutters etc.	For all doors, Toilet main door: GI door frame and shutters as per specifications mentioned at 'Particular Specifications' under Part 'B' (necessary shop drawings should be prepared by the contractor and work shall be executed after obtaining approval from Engineer-in-charge).
2.2	Frames and shutters for conventional toilets	<p>Frames: Bath and WC frames shall be factory made precast RCC M40 door frames of as per CPWD Specification of size 100mm X 60mm.</p> <p>Shutters: Bath and WC door shutters shall be 30 mm thick Fiber reinforced Plastic (FRP) flush door shutters in wood finish.</p>



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2.3	MS grill door (for Gas Bank & Rapid Composting Machine room)	Gas bank & MS grill (minimum weight 15 kg per sqm) as per approved shop drawings.
2.4	Door fittings	All fittings and fixtures are of Aluminum (for Aluminum shutters) and SS 304 grade (for all others) as per CPWD specifications, standard Engineering practice complete as per directions of Engineer-in-charge.
3	STEEL WORK	
3.1	MS Grill in windows, other openings & Ventilators	Should be fitted with ornamental MS grill (minimum weight 15 kg per sqm) as per approved shop drawings.
3.2	Structural steel work with roof Sheeting	1) All the structural members shall be as per Structural detail provided by structural consultant. All the members used shall be Class 'B' Tubular material with a coat of primer and Synthetic Enamel paint of suitable color. 2) Providing and fixing color coated galvalume sheets roofing, ridge & accessories, 0.5 mm total coated thickness (TCT), material yield strength 550 MPa, galvalume AZ-150 (zinc aluminum alloy coating nominal composition : 55% aluminum, 43.5% zinc & 1.5% silicon mass total of both sides) with regular modified polyester paint and coating of 20-25 micron rmp on expose surface including primer and 7-10 micron epoxy coating on unexposed surface including primer using self-drilling/ self-tapping screws complete Make - JSW, Essar, Everest.
3.3	Windows & Ventilators	Windows - Three track UPVC frame with double shutters with glazed panels & other with wire mesh (of SS grade 304 powder coated) shutter as per approved drawing and matching UPVC Extruded frames sections with minimum wall thickness 2.2 mm with necessary fittings and fixtures complete as per directions of Engineer-in-charge (necessary shop drawings should be prepared by the contractor and work shall be executed after obtaining approval from Engineer-in-charge). Ventilators – UPVC Extruded frames sections with minimum wall thickness 2.2 mm with necessary fittings and fixtures complete as per directions of Engineer-in-charge (Necessary shop drawings should be prepared by the contractor and work shall be executed after obtaining approval from Engineer-in-charge).
3.4	Glazing of doors, windows, Ventilators and openings	Glazing for doors shall be with 6mm / 8mm thick toughened glass (depending on size of opening) (necessary shop drawings should be prepared by the contractor and work shall be executed after obtaining approval from Engineer-in-charge). Plain frosted glass may be provided for ventilator louvers. The properties of glass should meet the ECBC & NBC 2016 requirement.



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3.5	Windows Sill	16 mm thick Pre molded and Pre polished granite slab of color & shade as approved by the Engineer in charge.
4.	FLOORING	
4.1	Flooring	The work shall be executed as per GFC drawings, CPWD specifications complete as per directions of Engineer – in – charge. Pre-Polished Granite stone slab 16 mm thick flooring as per the approved color, design & pattern. Satin rectified ceramic floor tile of minimum size 300x300 mm laid with adhesive and with spacers, groove filled with epoxy grout. Cement concrete (ordinary / hardenite) flooring as per CPWD specifications.
4.2	Skirting and dado	All rooms: - Specifications for materials of skirting will be same as for flooring with matching joint pattern up to 1200 mm height laid with adhesive. Corridors /Entrance Lobby /Lift Lobby/ Staircase: – Dado with 16 mm thick granite of approved shade and color 1200 mm height. Toilets: -Digital / colored rectified ceramic tiles of minimum size 300 mm x 600 mm up to ceiling laid with adhesive.
5.	ROOFING	
5.1	False Ceiling	Toilet Portion: - Calcium silicate board of size 600x600mm (painted to required shade and color) with suitable frame work complete as per manufacturer's specifications. Note: - (i) Gypsum Board false ceiling area shall be treated with cement-based putty in two coats, primer and 2 or more coats of premium plastic emulsion paints (ii) In all false ceiling areas, slab bottom shall be treated with one coat of cement primer (iii) In false ceiling areas of top floor, slab bottom shall be treated with underdeck insulation as per CPWD specifications.
5.2	Rain Water Pipes	All the RWP pipes including fittings shall be PVC Pipes exposed on walls / in the shafts to be executed as per CPWD specification 2009.
6.	FINISHING	



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6.1	Plastering on walls (Internal & External), Ceiling	<p>On internal wall faces, 12 / 18 mm cement plaster (with chicken mesh on entire area, plaster mesh aperture of 15mm x 15mm made of 1.3mm x 0.35mm GI strips of 'ARPITHA' brand or equivalent at junctions of RCC & masonry, fiber mesh at corners) in one or more coats to attain smooth and even surface.</p> <p>On External Wall faces, 12 / 18 mm cement plaster in 1:6 (with chicken mesh on entire area, plaster mesh aperture of 15mm x 15mm made of 1.3mm x 0.35mm GI strips of 'ARPITHA' brand or equivalent at junctions of RCC & masonry, fiber mesh at corners) in or more coats to attain smooth and even surface.</p> <p>On exposed ceiling, 8 / 12 mm thick Gypsum plaster in one or more coats to attain smooth and even surface.</p> <p>Necessary drip course shall be provided in Chajja, Balcony, Projecting Roof, Beams etc.</p>
6.2	Internal finishing	All the internal surfaces including exposed ceiling (non false ceiling areas) shall be finished with two or more coats of cement-based wall putty (in case the Gypsum plaster surface is not smooth and even), one coat of cement primer, two or more coats of premium plastic emulsion paint with low VOC.
6.3	External finishing	As per approved architectural drawing – Texture / smooth finish (Smooth finish areas are to be treated with cement-based wall putty in two coats). The finish shall be two or more coats of premium acrylic smooth weather proof exterior paint over a coat of cement premier.
6.4	Primer	As per CPWD Specification for wood work and steel work.
6.5	Painting	<p>Wood work – Melamine Polish (in 3 or more coats to achieve superior finish) over and under coat of flattening varnish on teak wood & decorative veneered surfaces.</p> <p>Steel work – Two or more coats of synthetic enamel paint over a coat of suitable primer.</p>
6.6	Covering of Shafts	All the internal shafts are to be covered with GRC jali and / or Powder coated GI / Aluminum jali and External Shafts with Terracotta louvers (as per specifications mentioned at 'Particular Specifications' under Part 'B') with suitable frame work complete as per manufacturer's specifications and directions of Engineer-in-charge (necessary shop drawings should be prepared by the contractor and work shall be executed after obtaining approval from Engineer-in- charge).
7.0	MISCELLANEOUS	
7.1	Anti-termite treatment	Providing and injecting chemical emulsion for post constructional anti termite treatment along the external wall up to depth of 300mm as per CPWD specifications.



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7.2	Plinth Protection and toe wall all-round	100 mm thick RMC M-15grade with nominal reinforcement of 8mm dia, TMT bar @ 300mm spacing in both ways over 75mm thick bed of sand, half brick masonry edging laid lengthwise to 150 mm depth and finishing with floating coat of neat cement punning and false squares on top and finishing the exposed brick work and concrete edge with cement plaster etc., complete as per approved drawings. In addition, toe wall in RR masonry / RCC may required to be provided, wherever required to support the earth all-round, at designated locations as approved by Engineer-in-charge.
7.3	Damp Proof Course	Damp proof course shall be with 40 mm thick cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12.5mm nominal size) mixed with water proofing compound painted at top with a coat of residual petroleum bitumen of grade VG-10 of approved quality at 1.7 kg/sqm wherever required complete as per CPWD specifications and directions of Engineer-in-charge.
7.4	CC in sunken portion	Since the toilets are proposed with core cutting arrangement, 100mm depression is proposed and the same to be filled with brickbat coba after water proofing treatment.
7.5	Miscellaneous civil and beautification works	Miscellaneous works like pathways, pergolas, Flower beds, open staircases, grass paver pathways, approach ramps, sitting places covered with tensile structure / gazebo areas etc.
8.	Internal Sanitary, Water Supply Installations	
8.1	W.C. Pan with flushing cistern	IWC with dual flushing cistern of 6 / 3 litres
8.2	Urinals	In-built sensor operated water saving half stall urinals with 16mm thick black granite partition of approved shape and pattern.
8.3	Wash basin	Counter sunk wash basin to be provided in counter /platform of 16 mm thick machine molded granite slab over RCC slab with sensor tap, Stainless steel Bottle trap must be provided in each wash basin
8.4	Mirror	Full size /length float mirror over wash basin slab to be provided over wooden backdrop of approved design.
8.5	SS Drinking Water Fountain	Wall mounted SS 304 grade drinking water fountain of size not less than 370 x 420 x 200 mm (minimum 2 should be provided near each toilet block) all complete with necessary plumbing and disposal arrangements.
8.6	Soil & waste pipes fittings	All the sanitary pipes including fittings shall be SWR (concealed behind walls, suspended from ceiling with suitable suspenders).
8.7	First Manhole	Brick masonry with Fly ash cement brick of class designation 75 of size 90x80x45cm with cover and frame (SFRC).



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8.8	Water supply line	
8.8.1	External pipe line up to 50mm	CPVC Pipes as per IS 15778 class1 of SDR 11.00 as per approved plumbing drawing.
8.8.2	Internal piping & fittings– Concealed work	CPVC Pipes of SDR 11.00 as per approved plumbing drawing
8.8.3	Painting of Pipes: a) Exposed on buildings	Synthetic enamel paint
8.9	Fittings	Pillar cocks, angle cocks, 2way bib cocks with health faucet, long body bib cocks, wall mixture, overhead shower, towel rod of 600mm, corner glass shelf along with other miscellaneous fittings like bottle trap, floor trap, waste couplings, liquid soap dispenser, toilet paper holder, etc.; as per approved make and model and as per the direction of Engineer – in – Charge. (The above is indicative only. However, the contractor has to provide all fixtures and fittings for functional suitability. Note: The fixtures and fittings shall be of standard equivalent to Jaguar make Florentine series or more only.
9.0	External Sanitary, Water Supply Installations	
9.1	External Service Lines towards Water Supply, and Sewerage	Water Supply: - CPVC pipe lines of suitable diameter from nearest line to Service tank of each building with control valves complete as per directions of Engineer-in- charge (the system should be conducive to Hydro Pneumatic system to be provided for all buildings). Sewerage: - NP2/schedule 80 upvc pipes of suitable diameter to be laid from each building to the nearest sewerage line complete as per directions of Engineer-in-charge. (Note: - The External Service Lines towards Water Supply, Sewerage shall be executed as per relevant CPWD specifications and specification attached.)
10.0	Accessibility of Buildings	Shall be accessible by differently abled persons as per GRIHA norms.
11.0	Name Boards, Numbering of rooms, Signages etc.	
11.1	Name Boards for buildings	Of approved design and make (like suitable gauge, 2 feet height SS 304 lettering) with LED backlit.
11.2	Numbering of Rooms	On SS plate (grade304) itching on 1 50 x 75mm
11.3	Signages	Signages inside building as per NBC 2016 guidelines of approved design and make with LED backlit
11.4	Electrification	1)DC Light Fittings for Mess block Gas Bank Area/as per relevant IS codes for Gas bank/Fire safety Norms 2) All Fittings with Light fixtures/External Lighting/Power Sockets as per the Direction of Engineer-in charge 3) Toilets to meet the functional requirement as per the directions of engineer- in-charge . 4) Required number of exhaust fans to be provided in the toilets



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5) Laying of the power line from the nearest Sub-station/building have to be planned accordingly as per the site condition and the supply should be taken through DWC pipes only

NOTE: All the final connectivity of all the nearest source should be planned accordingly and nothing extra shall be paid.

NOTE: The above list is only indicative and not exhaustive. The contractor has to plan and execute all the missing fittings / fixtures / items to make the premises to the full use. Nothing extra shall be paid on this account.

MAKE LIST – CIVIL

SL NO	MATERIALS	MAKE
1	Ordinary Portland Cement / Portland Pozzolana Cement	ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & JK Cement , Chettinad Cement Corp. Ltd, India cements, Rassi Cement, KCP Cement, Bharathi cement, Maha Cement, M/s. Sagar Cements Limited, Hyderabad and Cements and as approved by competent authority of CPWD
2	White Cement	Birla, J.K. White.
3	Reinforcement steel	RINL, SAIL, TATA STEEL Ltd., JSW STEEL Ltd., JINDAL STEEL & POWER Ltd, SHYAM STEEL INDUSTRIES LIMITED.
4	Ply wood	Kitply, Centuryply, Archidply, Greenply, Merino.
5	Laminates	Kitply, Centuryply, Archidply, Greenlam, Merino, Formica.
6	Veneers	Kitply, Centuryply, Archidply, Sonear, Greenply.
7	Flush Door Shutters	Raavela Doors, ITPL, Kitply, Greenply, Archidply.
8	M.S. Structural Sections	TATA, SAIL, RINL, JINDAL Steel & Power, JSW.
9	Water Proofing Compound	Fosroc, Pidilite, BASF, MYK Laticrete, SIKA
10	Ceramic Floor /Dado Tiles	Somany, Orient (Bell), Johnson, Kajaria, NITCO, RAK.
11	Vitrified Tiles	Somany, Orient(Bell), Johnson, Kajaria, NITCO, RAK.
12	Tile Adhesives	MYK Laticrete, Endura, Weber, Roff, Sika.
13	Aluminium Extruded sections	Jindal, Hindalco, Indian Aluminium Co.
14	Float/Plain/Tinted/Tempered Glass.	Modi, Saint Gobain, Asahi.
15	Grout Compound/ Epoxy Grouts	Laticrete, Ardexendura, Weber, Fosroc, BASF, Roff.
	Ready Mix Concrete (RMC)	To be approved by Engineer – in – Charge. If plant of acceptable norms are not available nearby, automatic batching



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16	Plant	plant of suitable capacity shall be installed at site. Nothing extra shall be paid on this account.
17	Fly ash Cement Bricks	KSP Industries, Prakash International Ltd, NUBRIC, Perfect Bricks.
18	Cement Based Wall putty	Birla Wall Care, J.K. Wall putty, Asian Paints.
19	G.I. Pipes -	TATA, Prakash, Jindal, Zenith.
20	Gun metal valves -	Zoloto, Leader, SANT
21	C.I. Sluice Valves	Kirloskar, Leader, Zoloto, BURN, IVS
22	C.P. Brass fittings/ fixtures	Jaquar, Parryware, Hindware,
23	C.P.V.C pipes & specials -	Ashirvad, Prince, Supreme, Finolex, Astral, Sudhakar.
24	Vitreous China Sanitary ware	Parryware, Hindware, Jaquar
25	Stainless Steel Sinks -	Nirali, Gilma, Kaff.
26	Paints/ Primer -	ICI Dulux, Asian Paints, Berger, Nerolac.
27	Centrifugally Cast (spun) Pipes & Fittings (Sanitary Pipes)	NECO (Jaiswal), Babulal Bajaj Iron Foundry Mathura (HIF), Singhal Iron Foundry (SKF), HEPCO castings.
28	Centrifugally Cast (spun) Pipes (LA) & Fittings (Water Supply Pipes)	Electro steel, Kesoram, LANCO Industries.
29	GI door Frames	Madhu Industries(Banglore), San Harvic(Ahmadabad/Baroda), Elixir Met Form Pvt. Ltd (Hyderabad), SHIRKE Polynorm.
30	GI door shutters	Madhu Industries (Banglore), San Harvic (Ahmadabad/Baroda), Elixir Met Form Pvt. Ltd (Hyderabad), SHIRKE Polynorm.
31	Mirror Glass.	Modi Guard, Atul, Golden Fish
32	Stainless Steel Friction stay hinges	Hafele, Earl Bihari, Magnum, Dorma, Doorset
33	Fire Resistant steel door shutters with frame	Shakti Hormann, MPP Systems, TATA Pravesch, SHIRKE Polynorm.
34	Dash/ Anchor Fasteners	HILTI, Fischer
35	Autoclaved aerated cement blocks	M/s Hyderabad Industries Limited, M/s Ultratech India Limited, M/s Siprox India Limited, NCL
36	Gypsum Board False Ceiling Tiles	Saint Gobain, Boral Board, Amstrong Co.
37	Mineral Fibre Board False Ceiling Tiles	Armstrong Co./ Dexune



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38	UPVC Windows	Fenesta, Kommerling, Madhu Window Systems, Rehau
39	POLYMER BASED CURING COMPOUNDS	FOSROC/SIKA/BASF
40	Anodised / Powder Coated Aluminium Fittings / Fixtures	Classic, Crown, Everite, Jyoti, Shakti.
41	Precoated Galvanised Iron Profile Sheets	Pennar Sheets, TATA Blue scope, NCL, Jindal
42	UPVC PIPES & FITTINGS	SUPREME/PRINCE / ASTRAL /KISAN / FINOLEX / SUDHAKAR / ASHIRWAD.
43	Actactic Polypropylene (APP) Modified Water Proof Membrane	Fosroc, Pidilite.
44	Stainless Steel Wire Mesh -	Champion ,GKD, WMW
45	Admixtures / platisizers -	Fosroc, BASF, Sika.
46	Bitumen	Indian Oil, Hindustan Petroleum Corporation.
47	Hydraulic Door Closers / Floor Springs	Dorma, Magnum, Doorset, Hafele, Hettich.
	Steel Nuts, Bolts and Screws	Atul, Hilti .
49	Adhesive / Glue	PidiliteIndusties (Fevicol), Dunlope, VAM Organic .
50	RCC Non Pressure (NP-2) Pipes	Indo., Hindustan, Balaji Pipe Industries, Indian Hume Pipes Ltd. and any other make as approved by Project Manager at time of execution.
51	Factory Made SFRC (RCC) Manhole Covers	Indo, Balaji Pipe Industries.
52	CI Manhole Covers	SKF, HIF,Neco
53	Structural and Weather Sealants	Dow Corning, GE.
54	EPDM GASKET	HANU/ANAND
55	HARDNERS	IRONITE/FERROK/HARDONATE/FOSROC
56	BALL BEARING HINGES AND SPRING HINGES	DORMA / HAFELE / GEZE/ MAGNUM / DOORSET/ HETTICH
57	STAINLESS STEEL SCREWS	KUNDAN/ARROW/NETTLEFOLD/GKW
58	PU ENAMEL METALIC PAINTS ON MS STRUCTURE	SKK/OIKOS/ACRO/ASIAN



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MAKELIST – ELECTRICAL

	ITEM	MAKES
1	PVC CONDUITS AND ACCESSORIES (ISI MARKED)	AKG / PRECISION / MODI/ AVON PLAST/ GM/SUDHAKAR/PRINCE
2	M.S. CONDUIT AND ACCESSORIES (ISI MARKED)	BEC/AKG/ NIC/STEEL CRAFT/ RM CON/ BHARAT/ GUPTA
3	PVC INSULATED FRLS COPPER CONDUCTOR CABLES 1.1 KV GRADE (ISI MARKED)	FINOLEX/ HAVELLS/RR KABLE/PANASONIC/L&T/POLYCAB
4	MODULAR PLATE TYPE SWITCH / SOCKET GI BOXES / FAN REGULATOR//TELEPHONE SOCKET	SCHNEIDER (ZENCELO) / LEGRAND ARTEOR /HAVELLS (CRAB TREE MURANO)
5	MCB / ISOLATOR / MCB DB'S / RCCB / ELCB / MODULER TYPE BELL	LEGRAND / SCHNEIDER ELECTRIC / L&T/ SIEMENS/HAVELLS
6	LUMINAIRES / LIGHT FITTINGS	PHILIPS / WIPRO / CROMPTON GREAVES/ BAJAJ/HAVELLS
7	CEILING FAN / EXHAUST FAN	HAVELLS / CROMPTON GREAVES / USHA / ALMONARD/ ORIENT
8	TELEPHONE CABLES / WIRES (ISI MARKED) / CO-AXIAL TV CABLES	FINOLEX/ HAVELLS / RR KABLE/ GLOSTER/POLYCAB
9	CAT 6 CABLE/ CAT 6A/ FIBER OPTIC CABLE & ASSOCIATED ITEMS	SCHNEIDER/SIEMON/SYSTIMAX/D-G LINK/ D-LINK/ COMM SPOKE/ BELDAN
10	TELEPHONE TAG BLOCK DP BOXES	KRONE (GERMAN) / D LINK / ITL
11	1.1 KV XLPE CABLE (ISI MARKED)	FINOLEX/ GLOSTER / HAVELLS / RR CABLE/CCI/UNIVERSAL/POLYCAB
12	OCCUPANCY SENSOR	PHILIPS / WIPRO / CROMPTON GREAVES / HONEY WELL/LEGRAND/ SCHNEIDER
13	LT PANEL COMPLETELY BOLTED SYSTEM MODULAR DESIGN	SCHNEIDER ELECTRIC/SIEMENS/ABB/LEGRAND/L&T OR



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	ELECTRICAL PANEL (TOTALLY TYPE TESTED AS PER IEC 61439-1)	THEIR AUTHORIZED CHANNEL PARTNER/FRANCHISEE
14	RJ-45 MODULAR SOCKET AND PLATE	LEGRAND / SCHNEIDER/ HAVELLS
15	DATA RACK & ACCESSORIES	SCHNEIDER/ RITTAL/ VALRACK / COMM SPOKE/ NET RACK
16	MCCBS	THE LATEST MODEL / SERIES OF LEGRAND / L&T /SCHNEIDER / SIEMENS
17	CURRENT TRANSFORMERS	AUTOMATIC ELECTRIC/ KAPPA/ L&T/ NEPTUNE
18	DIGITAL INDICATING MEASURING INSTRUMENTS /MULTIFUNCTION METERS	L&T (QUASER)/ SCHNEIDER (CONZERV) / AE
19	SELECTOR SWITCH	L&T/ KAYCEE/ SIEMENS
20	INDICATION LAMP & PUSH BUTTON	BCH/ L&T/SIEMENS/ SCHNEIDER
21	DIGITAL ENERGY METER	L & T / CONZERV/ SECURE
22	APFC RELAYS	L&T / SIEMENS / SCHNEIDER / NEPTUNE (DUCATI)/CPRI APPROVED MAKES
23	BUS TRUNKING, RISING MAIN & TAP-OFF BOX	LEGRAND/ L&T/ SCHNEIDER/ C & S / ABB
24	CABLE TRAYS & ACCESSORIES	LEGRAND CABLOFIL/PANDUIT AND EQUIVALENT
25	CAPACITOR(ISI MARKED)	EPCOS/ NEPTUNE/ SIEMENS/ L&T
26	CABLE GLAND/ LUGS/ THIMBLES	COMMET/ DOWELLS/ RAYCHEM/ GRIPWELL
27	OCTAGONAL STEEL POLE	BAJAJ / CROMPTON/ VOLMART /PHILIPS
28	LED STREET LIGHT FITTINGS	PHILIPS / CROMPTON GREAVES / WIPRO /HAVELLS
29	WATER SUPPLY PUMP SETS	KIRLOSKAR/ TEXMO/ CRI/ KSB/ CROMPTON
30	G.I. PIPES	TATA/ JINDAL/ ZENITH
31	GM VALVES (ISI MARKED)	LEADER/ ZOLOTO/ DEEPAK
32	LOOP-IN, LOOP-OUT STREET LIGHT BOXES	HENSEL/ SUPREME/ DEVI POLYMERS SONTAY/ SPELSBERG
33	High volume low speed fans	Kelley/ Brayon (Kale)/MacroAir
34	DWC /HDPE pipe	Supreme/ REX/ Ashirvad

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FIRE FIGHTING

No.	DESCRIPTION	MAKES
1	FIRE PUMP	KIRLOSKAR/ MATHER & PLATT/ GRUNDFOSS/ WILLO/ DP HOLLAND
2	ELECTRICAL MOTORS	KIRLOSKAR/ SIEMENS/ ABB/ CROMPTON
3	DIESEL ENGINE	KIRLOSKAR/ CUMMINS/ GREAVES
4	DE-WATERING PUMPS, TERRACE PUMPS	KIRLOSKAR/ KSB/ GRUNDFOSS/ MATHER & PLATT
5	CONTROL PANEL COMPLETELY BOLTED SYSTEM MODULAR DESIGN ELECTRICAL PANEL (TOTALLY TYPE TESTED AS PER IEC 61439-1)	SCHNEIDER ELECTRIC/SIEMENS/ABB/LEGRAND/L&T OR THEIR AUTHORIZED CHANNEL PARTNER/FRANCHISEE
6	BUTTERFLY/NON RETURN VALVE/SLUICE VALVE /DUAL PLATE CHECK VALVE /Y-STAINER/FIRE MAN AXE	KIRLOSKAR/AUDCO/ADVANCE/ ZOLOTO/ LEADER
7	FIRE HYDRANT VALVES/LANDING VALVES/ORIFICE PLATE	PADMINI/ SUPEREX/ OMEX/ MINIMAX / NEWAGE / GETECH / SAFEGUARD/ FIREX/ LIFEGUARD
8	FIRE BRIGADE INLETS/SUCTION COLLECTING HEAD	SAFEX/ NEWAGE / FIREX/ GETECH/ PADMINI/ CEASEFIRE
9	FIRST AID HOSE REEL (DRUM AND BRACKET)/ FIRE HOSE/ GUN METAL BRANCH PIPE/ FIREMAN AXE/ RRL HOSE	NEWAGE / GETECH / PADMINI/ SAFEX/ CEASEFIRE/ AGNI
10	GUN METAL/BRONZE GATE/GLOBE/CHECK/BALL VALVES	SANT/ LEADER/AUDCO/ADVANCE
11	XLPE CABLE (ISI MARKED)	FINOLEX/ GLOSTER / HAVELLS / RR CABLE/CCI/UNIVERSAL
12	MCCB / ISOLATOR / MCB	LEGRAND / SCHNEIDER / ABB / L&T/ SIEMENS/ HAGER/GE
13	AMMETER/VOLTMETER/CTS	AUTOMATIC ELECTRIC/ I.M.P/ L&T
14	CONTACTORS	SIEMENS /L&T /SCHNEIDER/ ABB
15	MS / GI PIPE (ISI MARKED)	TATA/ JINDAL/ ZENITH



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16	VIBRATION ELIMINATOR CONNECTORS/ METALIC EXPANSION BELLOWS	RESISTO FLEX/ EASY FLEX/ D.WREN
17	INSTALLATION CONTROL VALVE	HD FIRE/ NEWAGE/ PADMINI/ MATHER & PLATT
18	CABLE TRAY	VENUS/ SLOTCO/ PILCO/ REECO/OBO/ LEGRAND/ HAVELLS
19	PRESSURE GAUGE	DANFOSS/ H-GURU/ FIEBIG
20	WEATHER PROOF HOSE CABINET	PADMINI/ GETECH/ OMEX/ NEWAGE
21	FIRE EXTINGUISHERS	CEASE FIRE/ LIFEGUARD/ PADMINI/ SUPEREX/ MINIMAX/ SAFEX
22	AIR VESSEL	PADMINI/ CHAWLA FIRE/ GETECH/NEWAGE
23	ELECTRICAL SWITCHGEAR & STARTERS, RELAYS	SIEMENS/ L&T/ ABB/ C&S
24	SINGLE PHASING PREVENTOR(CURRENT SENSING)	L&T/ SIEMENS/ MINILEC
25	PIPE COAT MATERIAL (PIPE PROTECTION)	PYPKOTE/ COALTECK
26	BATTERY	EXIDE/PRESTOLITE/AMARAJA/ AMCO
27	ENAMEL PAINT, PRIMER	ASIAN/ NEROLAC/ BERGER
28	MEASURING METER	L&T/ SIEMENS/ AE/ ENERCON
29	AIR RELEASE VALVES	GIACOMINI/ AIP VALVE/ JAISON
30	SELECTOR SWITCH	L&T/ KAY CEE/SIEMENS/C&S/ SALZR
31	INDICATING LAMP	BCH/ L&T/ SIEMENS/ C&S/ SCHNEIDER/ TECNIC
32	CABLE GLAND/END TERMINATION LUGS/ TERMINAL BLOCKS	COMMET/ DOWELLS/RYPHEM/ WAGO/ ELMEC
33	Fire Detectors/ Response Indicators	Apollo / Edward / System Sensor /Agni/ Ravel
34	Manual call points	Apollo / Edward / System Sensor /Agni/ Ravel



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35	Electronic Hooters	Apollo / Edward / System Sensor /Agni/ Ravel
36	Fire Alarm Control panel	Apollo / Edward / System Sensor /Agni/ Ravel
37	SMF Batteries	Exide / Amaron / Panasonic / Amco/ Rocket
38	FRLS PVC insulated copper conductor cable (ISI marked)	RR Kabel/ Havells / Finolex/ Asmon/ Anchor/ KEI
39	Steel Conduit (ISI marked)	BEC/ RM CON/ Bharat/ Gupta / NIC
40	Fire Extinguishers	Cease fire/ Safex/ Agni/ Minimax
41	All other items not covered above	As per approval of the Engineer-in-charge.

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The layout drawings for Gas Bank, Mess Kitchen, Dormitory Kitchen & Transit Facility Kitchen can be downloaded from the below link:

<https://drive.google.com/drive/folders/1LIN9He6TvP70IR29sbFmiulkzP1CXKE0?usp=sharing>