



Tamil Nadu Handicrafts Development Corporation Limited
(A Government of Tamil Nadu Undertaking)
Corporate Office :759, Anna Salai, Chennai – 600 002
Tel.No.91-44-28521271 / 28521325

NOTICE INVITING TENDER – 2nd Call

Tender Reference: TNHDC/490/P1/21-22

Date: 13.08.2022

The Tamil Nadu Handicrafts Development Corporation Limited (THDC Ltd.), Chennai invites sealed tenders from eligible bidders for the following:

I	Name of the works	Upgradation & Renovation of Poompuhar Production Units at (1) Nachiyarkoil, (2) Madurai, (3) Vagaikulam, (4) Swamimalai, (5) Thanjavur and (6) Kallakurichi
II	Submission of tender last Date & Time	25.08.2022, 3.00 PM
III	Tender opening Date & Time	25.08.2022, 4.00 PM

Tender documents can be viewed / downloaded from the websites <http://www.tenders.tn.gov.in> and www.poompuhar.com/tnhdc

-Sd-
Managing Director

Tender Bulletin – 2nd Call

#	Parameters	Details
1.	Tender Inviting Authority, Designation, and Address	The Managing Director Tamil Nadu Handicrafts Development Corporation 759 Anna Salai, Chennai – 600 002 Phone:(044) 2852 1271/1325/5094 Fax: (044) 2852 4231 Email: tamilnaduhandicrafts@yahoo.co.in
2.	Tender Reference	TNHDC/490/P1/21-22
3.	Tender Called for and Place	Upgradation and Renovation of Poompuhar Production Centres at (1) Nachiyarkoil, (2) Madurai, (3) Vagaikulam, (4) Swamimalai, (5) Thanjavur and (6) Kallakurichi
4.	Tender documents available place and the due date for obtaining tender	On all working days between 10.00 AM and 06.00 PM from the Address mentioned in (1) above before 13.08.2022. Alternatively, Tender documents can be downloaded from the following websites www.poompuhar.com/tnhdc and www.tenders.tn.gov.in
5.	Tender Fee	Rs.1,000/- (Rupees one thousand only) plus GST towards Tender fee (Non -refundable) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only
6.	Earnest Money Deposit (EMD)	a) (1) Nachiarkoil and (2) Madurai = Rs.1,00,000/- b) (3) Vagaikulam, (4) Swamimalai & (5) Thanjavur = Rs. 40,000/- c) Kallakurichi = Rs. 20,000/- The way of Demand Draft drawn in favour of “ Tamil Nadu Handicrafts Development Corporation Ltd ” payable at Chennai only.
7.	Tender Value	Rs. 335.00 lakhs (inclusive of GST)
7.1	PACKAGES – 01 & 02	For each package Rs. 100.00 lakhs (inclusive of GST)
7.2	PACKAGES – 03 & 04	For each package Rs. 40.00 lakhs (inclusive of GST)
7.3	PACKAGE – 05	Rs. 35.00 lakhs (inclusive of GST)
7.4	PACKAGE – 06	Rs. 20.00 lakhs (inclusive of GST)
8.	Due Date, Time and Place of submission of sealed Tender	Sealed Tenders shall be submitted on or before for all Packages are on 25.08.2022 - 3.00 PM at the address mentioned in (1) above.
9.	Date, Time and Place of Opening of Technical Bids	Technical Bids will be opened for all Packages on 25.08.2022 - 4.00 PM at the address mentioned in (1) above.
10.	Date, Time and Place of the opening of Price Bids	Opening of Price Bid of Technically Qualified Bidders only will be done on the same day.



Request for Proposal (RFP)

(CALL-02)

Upgradation and Renovation of Poompuhar Production Centres

Tender Ref.: TNHDC/490/P1/21-22

Volume-1

Tender Document (Envelope-1)

The Tamil Nadu Handicrafts Development Corporation Ltd (TNHDC)

759 Anna Salai, Chennai – 600 002

Phone:(044) 2852 1271/1325/5094

Fax: (044) 2852 4231

Email: tamilnaduhandicrafts@yahoo.co.in

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Disclaimer

- 1) This Tender document is neither an agreement nor an offer by Tamil Nadu Handicrafts Development Corporation Limited (TNHDC) to the prospective Bidders or organisation or any other person. The purpose of this Tender document is to provide information to the prospective Bidders that may be useful to them in the preparation and submission of Bid.
- 2) TNHDC does not make any representation or warranty as to the accuracy or reliability or completeness of the information in this Tender document and it is not possible for TNHDC to consider the particular needs of each prospective Bidder. The prospective Bidders shall be deemed to have satisfied itself fully before Bidding as to the correctness and sufficiency of its Bids and price quoted in the Bid to cover all obligations under this Tender. The Bidder shall make all arrangements for execution of the contract at its own cost and transport.
- 3) TNHDC will not have any liability to any prospective Bidder or organisation or any other person under any laws for the loss or expense or damage which may arise from or be incurred in connection with anything contained in this Tender document, any matter deemed to form part of this Tender document, the award of the Contract.
- 4) TNHDC will not be responsible for any delay in receiving the Bids. The publication of this Tender does not imply that TNHDC is bound to select any Bidder or to sign Contract with the Successful Bidder, as the case may be, for the Scope of Work. TNHDC reserves the right to accept / reject any or all of Bids submitted in response to this Tender document at any stage for reasons such as change of scope or technology or non-availability of anticipated fund whatsoever with intimation notice published on the designated websites.
- 5) TNHDC reserves the right to change / modify / amend any or all conditions of this Tender document that will be made available on the designated websites.
- 6) This Tender process is governed by the Tamil Nadu Transparency in Tenders Act 1998 with The Tamil Nadu Transparency in Tenders Rules, 2000 as amended from time to time. It is Bidder's responsibility to ensure that they submit all the supporting documents without fail and it is the Bidder's sole responsibility to establish the proof of having relevant experience of the Bidders to fulfil the eligibility requirements otherwise the Bids are liable for rejection.

Definitions

For the purposes of this Tender unless the subject or context otherwise requires the following terms expressed shall mean as under.

#	Terms	Definitions
1.	Day	A day means a calendar day.
2.	Month	Month means an English calendar month.
3.	Government	Government means the Handlooms, Handicrafts, Textiles and Khadi Department, Government of Tamil Nadu.
4.	Department	Department means the Tamil Nadu Handicrafts Development Corporation Limited under the administrative control of Handlooms, Handicrafts, Textiles and Khadi Department, Government of Tamil Nadu.
5.	Government Organisations	Government Organisations means Central Government, State Government, Public Sector Undertakings of Central/State Governments, and Wholly owned Government Bodies.
6.	Applicable Law	Applicable Law means the Laws and any other instruments having the force of Law in Tamil Nadu as they may be issued and in force from time to time.
7.	Request for Proposal (RFP)	RFP means "Request for Proposal" document issued for "Upgradation and Renovation of Poompuhar Production Centres".
8.	Bidder/ Tenderer	Bidder/ Tenderer means the party who makes a formal offer in pursuance of this Tender floated by TNHDC.
9.	Partial offer	Partial offer means that the Bidder not quoting for the entire scope of work or price as asked in the Technical or Price Bid and such Bids are liable for rejection.
10.	Conditional offer	A conditional offer means that the Bidders specify their own terms and conditions for the Scope of Work or quoted Price which would be non-responsive to the tender conditions and such Bids are liable for rejection.
11.	Successful Bidder or TENDERER	Successful Bidder or TENDERER can be interchangeably used and means the Bidder who has been selected for awarding the contract through this Tender process.
12.	Services	Services mean the work to be performed by the TENDERER as per the Scope of Work described in the Tender.

#	Terms	Definitions
13.	Agreement	The agreement means the agreement to be entered between TNHDC and TENDERER with all its appendices and annexure and any amendments thereto made in accordance with the provisions herein, read in conjunction with this Request for Proposal (RFP) document, and the bid response including its further revisions, associated documentation as the situation may deem necessary.
14.	Force Majeure	Force Majeure means any event that is unforeseeable, beyond the control of either party and not involving the affected party's wilful fault or negligence and materially affecting its capacity to perform its obligations.
15.	Material Breach	Material Breach means not submitting any deliverables, as mentioned in the Scope of Work and not rectifying the default within the days of being notified of the default.
16.	Other Terms	Other terms used in the Tender but not defined under this shall have the same meaning as assigned to such terms under the Companies Act 1956, as the case may be, as amended from time to time.

1. Introduction

The Tamil Nadu Handicrafts Development Corporation Limited (hereinafter called TNHDC) popularly known as “**Poompuhar**” was incorporated as a Public Limited Company by taking over the Sales Emporia and Training-cum-Production Centres. The TNHDC promotes exquisite handicrafts like Bronze Icons, Brass Lamps, Stone Sculpture, Thanjavur Art plate, Thanjavur Paintings, Wood Carving, Mementos / Memorabilia, Jewellery, Pottery, Carpets, etc.

The TNHDC aims to encourage and hone the talent of artisans by training them, helping them improve their product quality and providing them social security by marketing their products. The TNHDC builds capacities of the artisans and helping them to cater to the changing demands of consumers. It also helps nurture traditional culture, make these ancient arts and crafts flourish.

By this Upgradation and Renovation of Poompuhar Production Centres for manufacturing of brass lamp, brass temple bells, Metal sculptures other brass artefacts, Articulated Tanjore paintings and Plates, Sandal wood sculptures, Etc ; it can improve the existing Building Repairing and retrofit Works, Electrical & lighting Work, Plumbing Work, Products Display Gallery and admin office, Signage & Name Board, Compound Wall & Pathway Development, Toilet facilities.

More details about the Corporation may be had by visiting the www.poompuhar.com.

2. Tender Schedule

#	Parameters	Details
1.	Tender Inviting Authority, Designation, and Address	The Managing Director Tamil Nadu Handicrafts Development Corporation 759 Anna Salai, Chennai – 600 002 Phone:(044) 2852 1271/1325/5094 Fax: (044) 2852 4231 Email: tamilnaduhandicrafts@yahoo.co.in
2.	Tender Reference	TNHDC/490/P1/21-22
3.	Tender called for and Place	Upgradation and Renovation of Poompuhar Production Centres at following locations
03.1	Package-01	Upgradation and Renovation of Poompuhar Brass & Bell Metal Production Centre at Nachiarkoil. Poompuhar Brass & Bell Metal Production Centre, South Street, Nachiyarkoil, Thanjavur- 612 602. Phone : 0435-2466553
03.2	Package-02	Upgradation and Renovation of Poompuhar Brass Artware Production Centre at Madurai. Poompuhar Brass Artware Production Centre, SIDCO Industrial Estate, K.Pudhur, Madurai-625 007. Phone : 0452-2566774
03.3	Package-03	Upgradation and Renovation of Poompuhar Brass & Bell Metal Production Centre at Vagaikulam. Poompuhar Brass & Bell Metal Production Centre, Mannarkoil (Post),Vagaikulam, Tirunelveli-627 413. Phone : 04634-250476.
03.4	Package-04	Upgradation and Renovation of Poompuhar Art metal Production Centre at Swamimalai. Poompuhar Art metal Production Centre, Thiruvanzuli Main Road, Swamimalai- 612 302. Phone : 0435- 2454442.

#	Parameters	Details
03.5	Package-05	Upgradation and Renovation of Poompohar Artplate Production Centre at Thanjavur. Poompuhar Artplate Production Centre, No:2985, Gandhiji road, Near Railway Junction, Thanjavur-613 001. Phone : 04362- 236050.
03.6	Package-06	Upgradation and Renovation of Poompohar Sandalwood Carving Production Centre at Kallakurichi. Poompuhar Sandalwood Carving Production Centre 54-55 SIDCO Industrial Estate, Kacharapalayam Road, Kallakurichi-606 202. Phone : 04151-222508.
4.	Tender documents available place and the due date for obtaining tender	Tender documents can be downloaded from the following websites www.poompuhar.com/tnhdc and www.tenders.tn.gov.in
5.	Tender Fee	
5.1	Packages – 01 & 02 - each respectively	Rs.1,000/- (Rupees One thousand only) plus GST towards Tender fee (Non -refundable) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only.
5.2	PACKAGES – 03,04 and 05 – each respectively	Rs.1,000/- (Rupees One thousand only) plus GST towards Tender fee (Non -refundable) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only.
5.3	Package-06	If the tender documents are downloaded from our website. Rs.1,000/- (Rupees One thousand only) plus GST towards Tender fee (Non -refundable) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only.
6.	Earnest Money Deposit (EMD)	
6.1	PACKAGES – 01 and 02 – each respectively	Rs.1,00,000/- (Rupees One Lakh only) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only.
6.2	PACKAGES – 03,04 and 05 – each respectively	Rs.40,000/- (Rupees Forty Thousand only) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only.
6.2	PACKAGE – 06	Rs.20,000/- (Rupees Twenty Thousand only) by way of Demand Draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Ltd” payable at Chennai only.

#	Parameters	Details
7.	Tender Value	
7.1	PACKAGES – 01 & 02	For each package Rs. 100.00 lakhs (inclusive of GST)
7.2	PACKAGES – 03 & 04	For each package Rs. 40.00 lakhs (inclusive of GST)
7.3	PACKAGE – 05	Rs. 35.00 lakhs (inclusive of GST)
7.4	PACKAGE – 06	Rs. 20.00 lakhs (inclusive of GST)
8.	Pre-Bid meeting date and place	<p>Pre-bid meetings were held at the following production units on 22.07.2022 for first Call of the RFP.</p> <p>(1) Nachiyarkoil - 10.00 AM (4) Swamimalai - 01.00 PM (5) Thanjavur - 4.00 PM</p> <p>A pre-bid meeting was held on 23.07.2022 at (2) Madurai - 10.00 AM (3) Vagaikulam - 4.00 PM</p> <p>A pre-bid meeting was held on 24.07.2022 at (6) Kallakurichi - 2.00 PM</p> <p>The address mentioned above Production Units. Any further clarifications, contact the address mentioned in (1) above.</p>
9.	Due Date, Time and Place of submission of sealed Tender	Sealed Tenders shall be submitted on or before 25.08.2022 at 3.00 PM at the address mentioned in (1) above.
10.	Date, Time and Place of Opening of Technical Bids	Technical Bids will be opened on 25.08.2022 at 4.00 PM at the address mentioned in (1) above.
11.	Date, Time and Place of the opening of Price Bids	Opening of Price Bid of Technically Qualified Bidders only will be done on the same day.

3. Tender Eligibility Criteria

The Bidders should fulfil the following Eligibility Criteria to participate in the Tender and should submit supporting documents in the Technical Bid.

#	Minimum Eligibility Criteria	Supporting documents required
1.	Bidder should be an organisation registered under the Companies Act 1956 or a Partnership Firm or Sole Proprietary Firm in India.	<p><u>In the case of registered Companies:</u> Copy of the Certificate of Incorporation shall be submitted.</p> <p><u>In case of Partnership Firms:</u> Copy of the Partnership Registration Certificate shall be submitted.</p> <p><u>In case of or Sole Proprietary:</u> Copy of the Firm /registration shall be submitted.</p> <p><u>All the Bidders shall submit the following documents:</u> Copy of the Permanent Account Number (PAN) Copy of the GST Registration Certificate</p>
2.	Bidder should have at least 3 years of work experience in the field of constructions / renovation / Interior designing works	Copy of the Work Orders issued by various Organisations shall be submitted.
3.	Bidder should have successfully executed construction projects / orders to various Government / Private Organisations in India during the past 3 years.	<p>a) Copy of the Work Orders and / or</p> <p>b) Copy of work completion certificate or performance certificate issued by Government/ Private Organisations shall be submitted.</p>
3.1	For Package 01 & 02	<p>a) The firm/contractors registered with PWD/CPWD/Highways/Tamil Nadu Police Housing Corporation under class-I are eligible. The Tenderer should be submitted a copy of the valid documents to satisfy the criteria.</p> <p>b) Copy of the Work Orders –A minimum of three successful works with a minimum order value of Rs.100 lakhs issued by Any Governments / PSU's / Private Organisations shall be submitted.</p> <p>c) Copy of work completion certificate or performance certificate issued by Government/ Private Organisations shall be submitted.</p>
3.2	For Packages 3, 4 & 5	<p>a) Copy of the Work Orders –A minimum of three successful works with a minimum order value of Rs.50 lakhs issued by Any Governments / PSU's / Private Organisations shall be submitted.</p> <p>b) Copy of work completion certificate or performance certificate issued by Government/ Private Organisations shall be submitted.</p>

#	Minimum Eligibility Criteria	Supporting documents required
3.3	Package 6	<p>a) Copy of the Work Orders –A minimum of three successful works with a minimum order value of Rs.25 lakhs issued by Any Governments / PSU's / Private Organisations shall be submitted.</p> <p>b) Copy of work completion certificate or performance certificate issued by Government/ Private Organisations shall be submitted.</p>
4.	Bidder should have an Annual Turnover of Rs.100 lakhs or more in the last three Audited Financial years. (Year 2020-21, 2019-20 & 2018-19).	Bidder should have profit all financial years and Bidder should submit Auditor's Certificate along with Profit and Loss Accounts for the last three audited Financial Years.
5.	Bidder should have Office in the State of Tamil Nadu	Copy of the Office address proof like Landline telephone bill, rent receipt, etc., in the name of the Bidder shall be submitted.
6.	Bidder should not have been blacklisted	Self-declaration letter to be provided by the authorised person of the Organisation.

4. Instructions to the Bidders

4.1 Language of the Bids

The Bids prepared by the Bidder as well as all correspondence and documents relating to the Bid shall be in English only. If the supporting documents and printed literature furnished by the Bidder in any other language, shall be submitted with an accurate English translation duly notarised, in which case, for all-purpose of the Bid, the translation shall govern. Bids received without such translation copy are liable to be rejected.

4.2 Bid Currency

Price should be quoted in Indian Rupees (INR) only and Payment shall be made in Indian Rupees only.

4.3 Letter of Authorisation

An Authorisation letter or Power of Attorney from the Board of Directors or Managing Director shall be submitted in case of a Registered Company. An authorisation letter signed by all the Partners authorising one of the Partners/Officials shall be submitted in case of Partnership Firm. An authorisation letter signed by the Proprietor authorising self/one of Officials shall be submitted in case of Proprietary-ship Firm. Such Authorisation letter should clearly mention the Authorised person to sign and submit Bids, to take decisions and to execute the work on behalf of the Organisation. The Bids received without the Authorisation letter or Power of Attorney will be summarily rejected.

4.4 Clarifications and Amendments

- 1) At any time after the issue of the tender documents and before the opening of the tender, the Tender Inviting Authority may make any changes, modifications or amendments to the tender documents and upload such changes to the designated websites mentioned in Tender Datasheet.
- 2) In case any tenderer seeks clarifications to the tender document before 48 hours of the opening of the Tender, the Tender Inviting Authority will notify the clarifications without identifying the source of the query and upload such clarification in the form of corrigendum to the designated websites mentioned in Tender Datasheet.
- 3) The tenderers should periodically check for the amendments or corrigendum or information on the websites till the opening date of the Tender. TNHDC will in no way be responsible for any ignorance by the Tenderer.
- 4) TNHDC will not responsible for any misinterpretation of the provisions of this tender document or on account of the Bidder's failure to update the Bid documents based on changes uploaded on the website.

4.5 Contacting the Tender Inviting Authority

Bidders shall not make attempts to establish unsolicited and unauthorised contact with the Tender Inviting Authority or Tender Committees or Tender Accepting Authority after opening of the Tender and prior to the notification of the Award. Any attempt by any Bidder to bring to bear extraneous pressures on the Tender Inviting Authority or Tender Committees or Tender Accepting Authority shall be sufficient reason to disqualify the Bidder.

4.6 Cost of Bidding

The Bidders should bear all costs associated with the preparation and submission of Bids. TNHDC will in no way be responsible or liable for these charges/costs incurred regardless of the conduct or outcome of the bidding process.

4.7 Tender Document Fee

- 1) The printed copy of the Tender documents may be purchased from the office of TNHDC on payment of fees as mentioned in the Tender Schedule. The Tender document is not transferable to any other Bidder.
- 2) The Tender fee may be paid by way of Demand Draft drawn in favour of "Tamil Nadu Handicrafts Development Corporation Ltd.", payable at Chennai only.
- 3) Alternatively, the Tender document can be downloaded from the designated websites mentioned in the Tender Schedule and the tender fee shall be paid as given in para 2 above and to be enclosed in the tender documents under technical bid.

4.8 Earnest Money Deposit (EMD)

- 1) An EMD amount as specified in the Tender Schedule should be paid along with the Technical Bid by way of Demand Draft from any Nationalised Bank or Scheduled Bank in India drawn in favour of "Tamil Nadu Handicrafts Development Corporation Ltd." payable at Chennai/payment through on-line.
- 2) The EMD amount of the unsuccessful Bidders will be refunded after finalisation of the Tender and award of the contract. The EMD amount held by TNHDC till it is refunded to unsuccessful Bidders will not earn any interest thereof.
- 3) The EMD amount of successful Bidders will be converted as part of the Security Deposit (SD) for the successful execution of the work.
- 4) The EMD amount will be forfeited by TNHDC, if the Bidder withdraws the bid during the period of its validity specified in the Tender or if the successful Bidder fails to sign the contract or the successful Bidder fails to remit Security Deposit within the timeframe specified in the Tender.

4.9 Tender Envelopes

- 1) Bidders should examine all Instructions, Terms & Conditions and Technical specifications as given in the Tender document. Failure to furnish information in the Bid or submission of Bids not substantially responsive/viable in all respects will be at Bidders' risk and may result in rejection of the bid. Bidders should strictly submit the Bid as specified in the Tender, failing which the bids will be held as non-responsive and will be rejected.
- 2) The Bids should be submitted in two envelopes namely (1) Technical Bid and (2) Price Bid. The Technical Bid and Price Bid shall be submitted in two separate covers as explained below. The Bids shall be addressed to "The Managing Director, Tamil Nadu Handicrafts Development Corporation Limited, 759, Anna Salai, Chennai – 600 002".

4.10 Technical Bid (Envelope-1)

4.10.1 Bid Preparation

The Technical Bid (Envelope-1) Form as given in the Tender document shall be filled, signed and stamped in all pages. TNHDC will not be responsible for the errors committed in the Bids by the Bidders. The Technical Bid should not strictly contain any price indications as otherwise the Bids will be summarily rejected.

4.10.2 Details to be furnished

- 1) The EMD amount as specified in the Tender should be submitted. Tenders received without EMD amount will be rejected.
- 2) A covering letter in the Bidder's Letter Head (in the format given in Annexure-1) should be submitted.
- 3) An Authorisation letter or Power of Attorney as specified in the Tender document should be submitted. The Tenders received without Authorisation letter or Power of Attorney will not be considered for further processing.
- 4) The blank Tender document in full along with Corrigenda shall be printed, signed by the Authorised Signatory of Tender, sealed in all pages and submitted in the Technical Bid as a token of acceptance of the Tender Conditions.
- 5) The Technical Bid (Envelope-1) should be duly filled in the format given in the Tender document, signed by the Authorised Signatory and stamped in all the pages and should be submitted.
- 6) All the supporting documents to establish proof of Bidder's eligibility to participate in the Tender should be signed by the Authorised Signatory and stamped in all pages and should be submitted. The supporting documents shall establish Bidder's eligibility otherwise the Bid will be rejected.
- 7) The Auditor's Certificate, Annual Report, Profit & Loss Account should be signed by the Authorised Signatory and stamped in all pages and should be submitted.
- 8) Any other documents as specified in the Tender should be signed by the Authorised Signatory and stamped in all pages and should be submitted. No document shall be allowed to be supplemented / exchanged after the opening of the Tender.
- 9) The Tenderer shall submit full details of his ownership and control or if the Tenderer is a partnership, joint venture or consortium, full details of ownership and control of each member thereof.
- 10) If the Tenderer is a joint venture / consortium / group / partnership of two or more persons, all such persons shall be jointly and severally liable to Tamil Nadu Handicrafts Development Corporation Limited for the fulfilment of the terms of the contract. Such a person shall designate one of them to act as the leader with the authority to sign. The joint venture / consortium / group / partnership shall not be altered without the approval of the TNHDC.
- 11) The Tenderer shall submit only one tender either by himself or as a partner in a joint venture or as a member of consortium. If a Tenderer or if any of the partners in joint ventures or any one of the members of the consortium participates in more than one tender, the tender is liable to be rejected.

- 12) Site Visit.- (1) The upgradation and renovation of Poompohar production centre's project involves site-related issues, a site visit shall be organised early in the Request for Proposal with prospective Tenderer own cost and expenses (2) All qualified applicants or prospective Tenderer, as the case may be, shall be invited to undertake the site visit. (3) Non-discriminatory access to the site facilities based on prior requests by the qualified applicants or prospective Tenderer may also be allowed by the Tender Inviting Authority to the extent practicable and considered necessary.
- 13) In case the Tenderer has any doubt about the meaning of anything contained in the tender document and site related concerns, he/she shall seek clarification from the Tender Inviting Authority of Tamil Nadu Handicrafts Development Corporation Limited during Pre-bid meeting, sufficiently well before submitting the bid. Any such clarification, together with all details on which clarification had been sought, will also be forwarded to all Tenderer without disclosing the identity of the Tenderer seeking clarification. All communications between the bidders and The Managing Director, Tamil Nadu Handicrafts Development Corporation Limited shall be carried out in writing.
- 14) Any and all the exemption which the tenders may have, in any of the clauses in the specification and general conditions of service should be clearly outlined in the schedule of deviation, SCHEDULE – A (Part B– To be enclosed in Envelope I). Failing which the offer will be deemed to conform fully to the specifications and general terms and conditions.
- 15) It may be noted that the tenders not containing full particulars called for incomplete shape are liable to be rejected. Tenders not properly authenticated by the Tenderer will be rejected. Tender documents should be duly signed by the Tenderer in all pages.
- 16) Except for any such written clarification by The Managing Director, Tamil Nadu Handicrafts Development Corporation Limited, before opening of technical bids which is expressly stated to be an addendum to the tender document issued by the office of The Managing Director, Tamil Nadu Handicrafts Development Corporation Limited, no written or oral communication, presentation or explanation by any other employee of Tamil Nadu Handicrafts Development Corporation Limited, shall be taken to bind or fetter the Tamil Nadu Handicrafts Development Corporation Limited, under the contract.
- 17) Tenders and all accompanying documents shall be in English. In case any accompanying documents are in other languages, it shall be accompanied by an English translation. The English version shall prevail in matters of interpretations.
- 18) All the columns shall be clearly filled in ink legibly or typed. The Tenderer should quote the number, rates and amount tendered by him/them in figures. The Tenderer shall take care that the rate and amount may be written in such a way that interpolation is not possible. No column should be left blank which would otherwise make the tender liable for rejection.

- 19) Each package treated as a separate proposal and the prospective Tenderer are allowed to submit the one or all packages separately. The following envelopes are expected from the prospective Tenderer in a professional manner Envelope-I (for Technical Details) and Envelope-II (for Price Bid) shall be in separate sealed envelopes, each marked as (Envelope-I) and (Envelope-II). The two covers shall be put into another sealed envelope and all three covers super scribing there on "Tender Reference No. TNHDC/490/P1/21-22 Execution of works relating to "Up gradation and Renovation of Poompohar Production Centres, Package -00".addressed to
- The Managing Director,
Tamil Nadu Handicrafts Development Corporation Limited,
Corporate Office
No.759, Anna Salai, Chennai-2.

4.10.3 Signing the Bid

- 20) The Technical Bid shall be typed and signed by the Authorized Signatory on all pages of the Bid and stamped. Any alterations, deletions or overwriting will be treated as valid only if they are attested with the full signature by the Authorized Signatory.

4.10.4 Sealing the Bid

- 21) The Technical Bid shall be placed in a separate cover (Envelope-1) and sealed. The Technical Bid cover shall be super scribed as "Upgradation and Renovation of Poompohar Production Centre- Package-00".

Tender No: TNHDC/490/P1/21-22, due on or before sealed Tenders shall be submitted on or before 25.08.2022 at 3.00 PM at the address mentioned in (1) above. The "FROM" address and "TO" address shall be written without fail otherwise the Technical Bid is liable for rejection.

4.11 Price Bid (Envelope-2)

4.11.1 Details to be furnished

- 1) The Price Bid (Envelope-2) Form as given in the Tender document shall be filled, signed and stamped in all pages. All the Price items as asked in the Tender should be filled in the Price Bid. The Tender is liable for rejection if Price Bid contains partial offers or conditional offers.
- 2) The price quoted by the Bidder shall include cost and expenses on all counts viz. cost of equipment, materials, tools/ techniques/ methodologies, manpower, supervision, administration, overheads, travel, lodging, boarding, in-station and outstation expenses, etc. and any other cost involved to fulfil the scope of work as specified in the Tender.
- 3) The cost quoted by the Bidder shall be kept firm for a period specified in the Tender from the date of opening of the Tender. The Bidder should keep the Price firm during the period of Contract including during the period of extension of time if any. Escalation of the cost will not be permitted during the said periods or during any period while providing services whether extended or not for reasons other than increase in duties/taxes payable to the Governments in India within the stipulated delivery period.

4.11.2 Signing the Bids

The Bids shall be typed, signed by the Authorised Signatory in all pages of the Bid and stamped. Any alterations, deletions or overwriting shall be treated valid only if they are attested by full signature by the Authorised Signatory.

4.11.3 Sealing the Bid

The Price Bid shall be placed in a separate cover (Envelope-2) and sealed. The Price Bid cover shall be super scribed as "Upgradation and Renovation of Poompuhar Production Centre-Package-00".

Tender No: TNHDC/490/P1/21-22, due on or before sealed Tenders shall be submitted on or before 25.08.2022 at 3.00 PM at the address mentioned in (1) above. The "FROM" address and "TO" address shall be written without fail otherwise the Price Bid is liable for rejection.

4.12 Outer Cover

- 1) The Technical Bid cover (Envelope-1) and Price Bid cover (Envelope-2) shall then be put in a single outer cover and sealed. The outer cover shall be super scribed as "Up gradation and Renovation of Poompuhar Production Centre-Package-00".
- 2) Tender No: TNHDC/490/P1/21-22, due on or before sealed Tenders shall be submitted on or before 25.08.2022 at 3.00 PM at the address mentioned in (1) above. The "FROM" address and "TO" address shall be written without fail otherwise the Technical Bid is liable for rejection.

4.13 Mode of Submission of Tender

- 1) The Bid should be dropped in the Tender Box kept at Tamil Nadu Handicrafts Development Corporation Limited, Corporate Office, No.759, Anna Salai, Chennai-2 address mentioned in Tender Schedule on or before the due date and time as specified in the Tender Schedule. The TNHDC will not receive the Bids personally.
- 2) Alternatively, if the Bidder prefers to submit the Bid by post, the Bidders should ensure that the Bids shall reach the Tamil Nadu Handicrafts Development Corporation Limited, Chennai on or before the due date and time as specified in the Tender Schedule. The Tamil Nadu Handicrafts Development Corporation Limited, Chennai would drop the postal Bids in the Tender box if the Bids received Tamil Nadu Handicrafts Development Corporation Limited, Chennai before the due date and time as specified in the Tender Schedule. TNHDC will not be liable or responsible for any damage, postal delay or any other delay whatsoever.
- 3) The Bids received after Due Date and Time as specified in the Tender Schedule or Unsealed or transmitted through Facsimiles or electronically will be summarily rejected.

4.14 Modification and withdrawal of Bids

Bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of this Tender document published by TNHDC and submitted by the Bidder with or as part of their Bid. The Bidders will not be permitted to modify or alter the Bids once submitted by the Bidder. Withdrawal of a Bid by any Bidder during the interval between the due date and time for submission of Tenders and the expiration of the period of Tender Validity as specified in the Tender document shall result in the forfeiture of the EMD/SD as the case may be.

4.15 Tender Opening and Initial Scrutiny

4.15.1 Technical Bid (Envelope-1) Opening

The Tender outer cover and Technical Bid cover (Envelope-1) will be opened at the place, date and time as specified in the Tender Schedule. The Tender will be opened in the presence of the Bidders who are willing to be present. The Authorised Signatory of the Tender or their representative shall attend the Tender opening.

4.15.2 Tender Validity

The price quoted by the Bidder shall be kept valid for a period of 90 days from the date of the Tender opening of Technical Bid (Envelope-1). If any of the Bids has lesser price validity, the Bid will be rejected as non-responsive. Successful Bidders should extend the price validity until the completion of the contract. In exceptional circumstances, TNHDC may solicit the Bidders to extend the price validity and Bid security validity for further period and Bidders should agree for this.

4.15.3 Initial Scrutiny during Tender opening

After the opening of the Tender outer cover and Technical Bid (Envelope-1), initial scrutiny will be held for the following aspects.

- i) Whether Technical Bid (Envelope-1) and Price Bid (Envelope-2) are submitted in two separate sealed covers.
- ii) Whether the required EMD amount is submitted in the Technical Bid (Envelope-1).

All Bids fulfilling the above conditions alone will be considered for further evaluation otherwise the Bid will be rejected.

4.15.4 Clarifications by TNHDC

When deemed necessary, TNHDC may seek bonafide clarifications on any aspect from the Bidder. However, that would not entitle the Bidder to change or cause any change in the substance of the Bid or price quoted. During the course of Technical Bid evaluation, TNHDC may seek additional information or historical documents for verification to facilitate decision making. In case, the Bidder is failed to comply with the requirements of TNHDC as stated above, such Bids may at the discretion of TNHDC, will be rejected as technically non-responsive.

4.16 Technical Bid Evaluation

4.16.1 Suppression of facts

- 1) During the Technical Bid evaluation, if any suppression or misrepresentation of information is brought to the notice of TNHDC, TNHDC shall have the right to reject the Bid. If the Bidder has already been selected, then TNHDC would terminate/void the contract as the case may be without any compensation to the Bidder and the EMD/ Security Deposit as the case may be shall be forfeited.
- 2) Bidders should note that any facts and figures like quantity, numbers, currency value, etc., in the supporting documents submitted by the Bidders for proving their eligibility criteria are found suppressed or erased, TNHDC shall have the right to seek the correct facts and figures, or reject such Bids. It is the Bidders responsibility to submit the full copies of the supporting documents to prove its eligibility otherwise TNHDC at its discretion may not consider such supporting documents.

4.16.2 Bid compliance with Eligibility Criteria

A Technical Committee will be involved in the evaluation of Technical Bid with respect to Eligibility criteria requirements as specified in the Tender. The Technical Evaluation will be conducted based on the supporting documents submitted by the Bidders. The Bids which establishes the Tender Eligibility Criteria in full will be considered for further processing. The Bids will be held non-responsive and rejected if the Bids do not establish the eligibility of the Bidders and will become unsuccessful in the Tender.

4.16.3 Selection of Technically Qualified Bidder

Those Bidders who fulfil the Eligibility Criteria will be the Technically Qualified Bidders in the Tender. Bidders will be assessed only to improve the quality levels in the proposed work under this Tender. The Price Bids of the Technically Qualified Bidders alone will be opened and evaluated.

4.17 Price Bid Evaluation

4.17.1 Price Bid opening

The Price Bid cover (Envelope-2) will be opened at the place, date and time as specified in the Tender Schedule. The Technically Qualified Bidders alone will be invited for Price Bid opening. The Authorised Signatory of the Tender or their representative shall attend the Price Bid opening.

4.17.2 Determination of Lowest Evaluated Price

- 1) The arithmetical errors in the Price Bid if any will be corrected and the price quoted by the Bidders will be evaluated. The price evaluation will include Taxes as part of the price.
- 2) The lowest evaluated price will be called as L1 price. The L1 price offered Bidder will be called as "L1 Bidder" of the Tender. The TNHDC may negotiate with the L1 Bidder for further reduction of price and improvement in the scope of work.
- 3) In the event that more than one Technically Qualified Bidder quoted the L1 price, both L1 Bidders will be asked to provide their best and final price offer in a sealed cover. The L1 Bidder offering the best advantageous price to TNHDC will be given a priority and major share of work.

4.18 Rejection of Tender of banned Tenderer

As per the Tamil Nadu Transparency in Tender Act 1998, if at any time before the acceptance of tender, the Tender Accepting Authority receives information that a Tenderer who has submitted tender has been banned by any procuring entity, the Tender Accepting Authority shall not accept the tender of that Tenderer even if it may be the lowest tender.

4.19 Acceptance of the Bid

The final acceptance of the Bids is entirely vested with the Tender Accepting Authority who reserves the right to accept or reject any or all of the Tenders in full or in part. The Tender Accepting Authority may also cancel the Tender for reasons such as changes in the scope of work, new technologies, court orders, accidents or Force Majeure conditions. After acceptance of the Tender by Tender Accepting Authority, if the any of the Bidder withdraws its Bid whatsoever the reason, then the withdrawn Bid will be rejected and the EMD amount submitted by the Bidder will be forfeited.

4.20 Notification of Award

Prior to the expiry of the Tender validity period, TNHDC will notify that the selected bidder in writing that its Bid have been accepted for award of Contract subject to receipt of Security Deposit.

4.21 Refund of EMD amount

The EMD amount of the unsuccessful Bidders will be refunded after awarding of the contract within a reasonable period. The EMD amount paid by the Successful Bidder will be converted as part of the Security Deposit payable by the Successful Bidder. If the successful Bidder submits Security Deposit in full, their EMD will be refunded.

- a) Each bidder must pay an Earnest Money Deposit by way of demand draft in favour of “Tamil Nadu Handicrafts Development Corporation Limited”, payable at Chennai.
- b) Tenders not accompanied by the EMD for the notified amount in the form prescribed shall be summarily rejected.
- c) The Earnest Money Deposit of unsuccessful Tenderer will be returned after the finalization of tender within a reasonable time consistent with the rules and regulations.
- d) The Earnest Money Deposit furnished for any other tenders by the bidders and if any already available with the Tender Inviting Authority cannot be considered as an EMD for this tender.
- e) The EMD amount held by the Tender Inviting Authority until it is returned to the unsuccessful bidder will not earn any interest thereof.
- f) The EMD amount of successful bidders will be retained as a part of the Security Deposit (SD) for successful execution of the project.
- g) The EMD amount shall be forfeited if: The bidder withdraws the bid during the period of bid validity specified in the tender (or) in the case of the successful bidder if the bidder fails to sign the contract or to remit Security Deposit or adhere to the time schedule.

4.22 Remittance of Security Deposit (SD)

- 1) The Successful Bidder shall be required to remit a Security Deposit equivalent to 5% (Five percentage) on the total value of the order, inclusive of EMD amount by way of demand draft drawn in favour of “Tamil Nadu Handicrafts Development Corporation Limited” payable at Chennai.
- 2) The Security Deposit furnished by the Successful Bidder in respect of the tender will be returned to them after the successful fulfilment of Contract. The Security Deposit held by TNHDC until it is refunded to the Successful Bidder will not earn any interest thereof.
- 3) The Security Deposit will be forfeited if the Successful Bidder withdraws the Bid during the period of Tender validity as specified in the Tender document.
- 4) The Security Deposit (SD) – 5% on the work order value; In addition to that, 5% of each billed amount will be deducted from every stage payment until the virtual completion of the project along with all certified measurement books, bills, etc. and it will be released once the project is completed and the basic security deposit of 5% will be released after defect liability period.

4.23 Award of Contract

The Successful Bidder shall execute a Contract in the Contract Form (in the format as given in Annexure-3) in Rs.20/- non-judicial stamp paper bought in Tamil Nadu only in the name of the Bidder, within one week from the date of remittance of Security Deposit. The L1 Bidder will be given preference with major share of the work. The Security Deposit will be forfeited if the Successful Bidder fails to sign the contract.

4.24 Bidder Design Obligations

1. The Bidder should visit the site along with tender documents for correlating the existing scenario before the pre-bid meeting.
2. The Bidder has to strictly adhere to the drawings and designs furnished by the Architect / Consultant for the production unit retrofit/renovation work.
3. The specification provided for the design/drawing shall also strictly adhere; wherever the shop drawings required, it should be provided by the contractor, and get approved from the architect/consultant before the execution of work at site.
4. In case of any changes or modifications at the site with respect to any of the following,
 - a) Due to Site Conditions
 - b) TNHDC's modifications during execution
 - c) Design Modifications

The Bidder shall get the written consent from both the TNHDC and the Architect/Consultant before the execution of same at the site.

5. The Bidder shall execute any Lump sum works as mentioned in the Bill of quantities with the written consent by the TNHDC and the Architect/Consultant. The rates for the same shall be adopted as
 - a) PWD Schedule of Rates or
 - b) Cost of material + 15% for overheads profit.
6. As the upgradation and renovation of the production centres are industrial structures with existing manufacture equipment's and components. To consider the onsite factors and scenarios, the successful Bidder shall execute any unforeseen works that arise at the site with the written consent by the TNHDC and the Architect / Consultant. The rates for the same shall be
 - c) Tendered Rate or
 - d) PWD Schedule of Rates or
 - e) Cost + 15% for overheads and profit.
7. The Bidder shall obtain stage-wise Certification for payment from the production manager and the Architect / Consultant before the submission of the bills to TNHDC.
8. The Bidder at no point of time will deviate from the standard design finishes adopted by the Architect / Consultant and TNHDC. The design finishes include the following and are not limited within
 - a) The structural modifications.
 - b) Existing services and alignments.
 - c) Existing joineries and furniture
 - d) Exterior and interior finishes
 - e) Safety aspects, etc

5. Scope of Work

5.1 Introduction

The nature of the work is to do civil, structural retrofitting and electro-mechanical works relating to “Upgradation and Renovation of Poompohar Production Centres”.

The TNHDC aims to encourage and hone the talent of artisans by training them, helping them improve their product quality and providing them social security by marketing their products. The TNHDC builds capacities of the artisans and helping them to cater to the changing demands of consumers. It also helps nurture traditional culture, make these ancient arts and crafts flourish.

By this Upgradation and Renovation of Poompohar Production Centres, these add up the overall value and supports like backbone of our business. The new innovative products crafted from our production centres improves our day to day sales, and the volume of the entire showrooms will also increase by attracting more new business sectors.

5.2 Review and Monitoring

The Tenderer shall be accountable to the TNHDC for the successful completion of the work for which TNHDC will hold a periodical review meeting. The TENDERER should attend the meeting without fail and report the progress to TNHDC. The decisions made during the review shall be strictly adhered to by the TENDERER for timely completion of the job.

5.3 Other Clauses

Please refer to the important clauses like Delivery Schedule, Payments, and Taxes, Service Level Agreement (SLA), Penalties, Exit Clause, etc., in the Contract.

Annexure-1 Bidder's covering letter

(Letter should be submitted in Bidders' Letter Head)

Letter ref.: _____ dated _____

To,
The Managing Director
Tamil Nadu Handicrafts Development Corporation Ltd
759 Anna Salai, Chennai – 600 002

Dear Sir,

Sub: Undertaking for "Upgradation and Renovation of Poompuhar Production Centre-package00" –
Reg.

Ref: Tender Reference TNHDC/490/P1/21-22

1. We have examined the "Upgradation and Renovation of Poompuhar Production Centre – package 00" as specified in the Tender. We undertake to meet the requirements and provide the services as set out in the Tender document.
2. We attach our Technical Bid (Envelope-1) and Price Bid (Envelope-2) in separate sealed covers and placed inside an outer cover as required by the Tender conditions both of which together constitute our proposal, in full conformity with the said Tender.
3. We have read the provisions of this Tender and confirm that these are acceptable to us. We further declare that additional conditions and deviations, if any, found in our response shall not be given effect to.
4. We undertake, if our Bid is accepted, to adhere to the scope of work as specified in the Tender or such modified plan as may subsequently be agreed.
5. We agree to unconditionally accept all the terms and conditions set out in the Tender document and also agree to abide by this Bid response for a period as mentioned in the Tender from the date of bid opening and it shall remain binding upon us with full force and virtue, until within this period a formal contract is prepared and executed, this Bid response, together with your written acceptance thereof in your notification of award, shall constitute a binding contract between us and TNHDC.
6. We affirm that the information contained in the Technical Bid or any part thereof, including its exhibits, schedules, and other documents and instruments delivered or to be delivered to TNHDC is true, accurate, and complete. This proposal includes all information necessary to ensure that the statements therein do not in whole or in part mislead TNHDC as to any material fact.
7. We agree that TNHDC is not bound to accept the lowest or any Bid that may receive. We are also aware that you reserve the right in the absolute sense to reject all or any of the products/services specified in the bid response without assigning any reason whatsoever.
8. I hereby confirm that I am entitled to act on behalf of our organisation and empowered to sign the Bid document as well as such other documents. The Power of Attorney/ Letter of Authorisation required in this connection is enclosed in the Technical Bid.

Signature of the Authorised Signatory of Tender:
Name of Authorised person:
Designation of Authorised person
Name and Address of Bidder:
Stamp of bidder:

Annexure-2 Contract Terms

(To be executed on an Rs. 20/- Stamp paper by the Successful Bidder)

This Contract entered into this _____ day of _____ at Chennai between;

The Tamil Nadu Handicrafts Development Corporation Ltd, having its Registered Office at 759 Anna Salai, Chennai-600 002 hereinafter referred to as TNHDC (Which expression shall unless repugnant to the context or meaning thereof include its successors and assigns) of the First part.

and

M/s. _____ having its Registered Office _____ hereinafter referred to as the TENDERER (Which expression shall unless repugnant to the context or meaning thereof include its successors and assigns) of the Second part.

Whereas TNHDC invited a Tender "Upgradation and Renovation of Poompuhar Production Centre-Package00" and the TENDERER herein has been selected in the Tender for the execution of the work as detailed in the Tender Documents.

Whereas TNHDC and the TENDERER, in pursuance thereof have arrived at the following terms and conditions.

A1. Definitions

For the purposes of this Contract unless the subject or context otherwise requires the following terms expressed shall mean as under.

1. "Day" means a calendar day
2. "Month" means an English calendar month
3. "Applicable Law" means the Laws and any other instruments having the force of Law in Tamil Nadu as they may be issued and in force from time to time
4. "Services" means the work to be performed by the TENDERER as per the Scope of Work described in the Tender
5. "Contract" means this contract entered between TNHDC and TENDERER
6. "Whole Documents" means the documents listed under Whole Documents with all its appendices and annexure and any amendments thereto made in accordance with the provisions of Request for Proposal (RFP) document as the situation may deem necessary.
7. "Force Majeure" means an event that is unforeseeable, beyond the control of either party and not involving the affected party's wilful fault or negligence and materially affecting its capacity to perform its obligations.
8. "Material Breach" means not submitting any deliverables, as mentioned in the Scope of Work and not rectifying the default within the days of being notified of the default.
9. Other terms used in the Contract but not defined under this shall have the same meaning as assigned to such terms under the Information Technology Act, 2000 and the Companies Act, 1956, as the case may be, as amended from time to time.

A2. Interpretations

- a) If the context so requires it, singular means plural and vice versa.
- b) Entire Agreement: The Contract constitutes the entire agreement between the TNHDC and the TENDERER and supersedes all communications, negotiations, and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- c) Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorised signatory of each party thereto.
- d) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized signatory of the party granting such waiver, and must specify the right and the extent to which it is being waived.
- e) Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

A3. Whole Documents

The following documents shall be deemed to form and be read and construed as part of this Contract.

- a) Tender Document in full issued by TNHDC
- b) Corrigenda, Clarifications, and Amendments issued by TNHDC for the Tender document
- c) Bid received from the TENDERER
- d) A detailed proposal and final offer of the TENDERER
- e) Notification of Award issued by TNHDC
- f) Purchase Order issued by TNHDC
- g) Correspondence made by both parties from time to time during the period of the contract.

A4. Contract Period

This Contract shall remain in force for a period 9 days (Content delivery period plus additional content creation) from the date of signing of this Contract.

A5. No Partnerships

This Contract shall not be interpreted or construed to create an association, joint venture or partnership among the Parties or to impose any partnership obligation or liability upon either Party. Neither Party shall have any right, power or authority to enter into any Contract to act on behalf of to bind the other Party.

A6. No assignment

The Contract or any part share of interest in it shall not be transferred or assigned by the TENDERER directly or indirectly to any person without the prior consent in writing of the TNHDC, which consent the TNHDC shall be entitled to decline without assigning any reason.

A7. Scope of Work

The nature of the work is to do "Upgradation and Renovation of Poompohar Production Centre- Package 00"

The TNHDC aims to encourage and hone the talent of artisans by training them, helping them improve their product quality and providing them social security by marketing their products. The TNHDC builds capacities of the artisans and helping them to cater to the changing demands of consumers. It also helps nurture traditional culture, make these ancient arts and crafts flourish.

By this Upgradation and Renovation of "Poompuhar Production Centre-Package 00", it can improve our day to day sales by displaying more products for sales, and the volume of the entire showrooms will also increase by attracting more new customers.

A8. Contract Price

This finally negotiated and agreed price is given below and the price is firm and not subject to enhancement. Wherever the offer conditions furnished by the TENDERER are at variance with conditions of this contract or conditions stipulated in the tender document, the latter shall prevail over the offer conditions furnished by the TENDERER.

A9. Issue of Work Order

After payment of the Security Deposit and execution of the Contract, formal Work Order will be issued to the Successful Bidder by TNHDC. The payment will be based on the fulfilment of Work Orders issued from time to time.

A10. Project Period

The work shall be completed within 120 days or 04 months from the date of handing over of site.

Sl.No	Name of the Package	No of days
01	Packages 01 & 02	120 Days
02	Remaining Packages (3,4,5 & 6)	90 Days

A11. Payment Terms

- 1) No advance amount will be paid. The stage payment will be released based on the onsite progress and the running bills along with proper Measurement books and required product test certificates, relevant shop drawings to be certified by the Architect/Consultant and concerned production Manager of TNHDC Ltd.,

SI.No	Stages of work / Milestones	Payment mode
1.	Preparation of the site and marking	5%
2	Demolition & clearing debris, Completion of foundation work, roofing retrofit work	10%
3.	Completion of civil & structural retrofit work and filled flooring with PCC	20%
4.	Retrofit the existing joineries and fixing new joineries, roofing & its components.	15%
5.	Finishing of the external works - Plastering, Tile works, Electrical & Plumbing, painting work, etc.	20%
6.	Completion of internal finish, any carpentry works, false ceiling, signage works, Lighting fixture & final coat of Painting	20%
7.	Cleaning and handling of the site with all respective as built drawings, Checked measurement books, product details & its test certificates, etc...	5%

- 2) Balance 5% payment will be retained as a performance guarantee till expiry of the contract defect liability period.

A12. Taxes

The Taxes as applicable for the services within the Delivery Schedule as specified in the Contract will be paid. In case, the Taxes have been reduced retrospectively, the TENDERER is liable to refund the same. The TENDERER shall have full and exclusive liability for the remittance of Taxes and other statutory payments like labour welfare fund, etc., to the respective statutory authorities payable under any or all of the Statutes/ Laws/ Acts etc., now or hereafter imposed. The TENDERER shall submit the proof of Tax remittance to TNHDC when sought.

A13. Termination of Contract

A13.1 Termination for default

- 1) TNHDC may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 15 days, sent to the TENDERER, terminate the contract in whole or part;
- (i) If the TENDERER fails to deliver any or all of the goods/services within the period

specified in the Contract or fails to supply the items/services as per the Delivery Schedule or within any extension thereof granted by TNHDC; or

- (ii) If the TENDERER fails to perform any of the obligations under the contract; or
 - (iii) If the TENDERER, in the considered judgment of TNHDC, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.
- 2) In the event TNHDC terminates the Contract in whole or in part, TNHDC may procure, upon terms and in such manner as it deems appropriate, the goods and services similar to those delivered and the TENDERER shall be liable to TNHDC for any additional costs for such similar goods/services. However, the TENDERER shall continue the performance of the contract to the extent not terminated.

A13.2 Termination for Insolvency

The TNHDC may at any time terminate the Contract by giving written notice with a notice period of 15 days to the TENDERER if the TENDERER becomes bankrupt or otherwise insolvent. In this event, the termination will be without compensation to the TENDERER, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to TNHDC.

A13.3 Effects of Termination

- 1) In the event of termination of this Contract by the TNHDC, the compensation payable to the TENDERER will be decided in accordance with the Terms of Payment for the milestones completed by the TENDERER and duly accepted by TNHDC.
- 2) Upon issuance of notice for termination of this Contract by TNHDC, the Parties shall mutually agree upon a transition plan and comply with such a plan. The TENDERER agrees to extend full cooperation and support during the transition process.
- 3) In the event of termination, before the expiry of the contract or otherwise, TENDERER agrees to return all the data, documents, reports and other assets provided by TNHDC for the purpose of fulfilling the finalized Scope of Work.

A14. Fraudulent Practice

The TENDERER represents and undertakes that the TENDERER has not given or promised to give directly or indirectly to any person in TNHDC, the bribes or the TENDERER involved in fraudulent practices in obtaining the Contract. Any breach of this undertaking by TENDERER or anyone employed by them entitles TNHDC to terminate the Contract either wholly or in part and recover from TENDERER any loss arising from such termination without any entitlement or compensation to TENDERER. The TNHDC will blacklist the TENDERER from bidding any Tender of TNHDC for a minimum period of one year. A decision of TNHDC to the effect of a breach of the undertaking shall be final and binding on TENDERER.

A15. Co-operation

The TNHDC will provide all the necessary information, data, and reports needed by the TENDERER in time and manner for fulfilling the contractual obligations. The TNHDC will grant necessary consents, approvals, authorizations, and communication with external agencies from time to time as needed by the TENDERER. The TNHDC will provide replies within reasonable timeframe, on all requests and queries submitted by TENDERER to carry out the obligations.

A16. Liquidated Damages (LD)

In the event of non-fulfilment of Tender conditions/agreement terms by the VENDOR, a Liquidated Damage at the rate of 1% (One percentage) per week on the amount of security deposit payable to THDC will be levied subject to a maximum of 5% (Five percentage).

A17. Indemnity

The TENDERER shall indemnify, defend and hold the TNHDC and their officers, employees, successors and assigns harmless from and against any and all losses arising from personal injury or claims by third parties pursuant to this Contract, including but not limited to any equipment, software, information, methods of operation or other intellectual property (or the access, use or other rights thereto) provided by the TENDERER or its sub-contractors or its associated agencies or any act, default or omission of any of them in relation to this agreement.

A18. Severability

If for any reason whatever, any provision of this Contract is or becomes invalid, illegal or unenforceable or is so declared by any Honourable Courts of competent jurisdiction, the validity, legality or enforceability of the remaining provisions shall not be affected in any manner, and the Parties will negotiate in good faith with a view to agreeing to one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable.

A19. Limitation of Liability

The aggregate liability of the TENDERER under this Contract or otherwise in connection with the work to be performed hereunder, shall in no event exceed the contract price.

A20. Refund of SD

The Security Deposit will be refunded to the TENDERER upon successful completion of the Contract. Such completion would be determined when the Contractual obligations are fulfilled as per the Contract terms and fulfilment of Work Orders issued by TNHDC from time to time.

A21. Intellectual Property Rights (IPR)

- 1) The ownership and IPR of the deliverables made under this Contract would always rest with the TNHDC. The ownership and IPR of the Proprietary tools and/or other tools used by the TENDERER or third party or parties for the purpose of design, development and making the deliverables would always rest with the respective parties.
- 2) In relation to any inventions, discoveries or other Intellectual Property Rights, the TENDERER shall make full and complete disclosure to the TNHDC including any or all information in the TENDERER's possession relating to their IPR/patentability if any.
- 3) Notwithstanding anything contrary contained herein, the TENDERER shall defend, indemnify and hold harmless the Tamil Nadu Handicrafts Development Corporation or its employees or its affiliates against any suit or claim brought by a third party that a possession or use of software, programs, hardware, materials or documents infringes such third parties Intellectual Property Rights or its misuse of its confidential information by the TENDERER.

A22. Notices

Any notice from one party to other given or required to be given hereunder shall be given by either:

- 1) Mailing the same by registered mail, postage prepaid, return receipt requested; or
- 2) Having the same delivered by courier with receipt acknowledged at the address set forth above or with other addresses and to the attention of such other person or persons as may hereafter be designated by like notice hereunder and any such notice shall be deemed to have been served if sent by post on the date when in the ordinary course of post, it would have been delivered at the addresses to which it was sent or if delivered by courier on the date of acknowledgment of receipt.

A23. Force Majeure

Neither TNHDC nor the TENDERER shall be liable to the other for any delay or failure in the performance of their respective obligations except causes or contingencies beyond their reasonable control due to Force Majeure conditions such as:

- 1) Any act of God/nature; such as lightning, earthquake, landslide, etc or other events of natural disaster of rare severity
- 2) Meteorites or objects falling from aircraft or other aerial devices, traveling at high speeds
- 3) Fire or explosion, chemical or radioactive contamination or ionizing radiation
- 4) Epidemic or plague
- 5) Act of war (whether declared or undeclared), the threat of war, invasion, armed conflict or act of a foreign enemy, unexpected call up of armed forces, blockade, embargo, revolution, riot, religious strife, bombs or civil commotion, sabotage, and terrorism

A24. Arbitration

- 1) Any dispute or difference whatsoever arising between the parties to the Contract, out of or relating to the construction, meaning, scope, operation or effect of the Contract or validity of the breach thereof, which cannot be resolved through negotiation process, shall be referred to a sole Arbitrator to be appointed by the Chairman and Managing Director of TNHDC. The Arbitration shall be held in Chennai, Tamil Nadu and the language shall be English only.
- 2) It is a term of the contract that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration and not thereafter.
- 3) It is also a term of the contract that neither party to the contract shall be entitled to seek interest and the arbitrator should not grant interest.
- 4) The Arbitral Tribunal shall give the reasoned award and the same shall be final, conclusive and binding on the parties.
- 5) The venue of the arbitration shall be the Chennai and language English.
- 6) The fees of the arbitrator and expenses incidental to the arbitration proceedings shall be borne equally by the parties.
- 7) Subject to as aforesaid, the provisions of the Arbitration and Conciliation Act 1996 and any statutory modifications or re-enactment in lieu thereof shall apply to the arbitration proceedings under this clause.
- 8) Jurisdiction: Subject to the above, the Courts in Chennai, Tamil Nadu alone shall have jurisdiction in this matter.

A25. Exit Clause

- 1) At the time of the expiry of the contract period, as per the contract between the parties, the TENDERER should ensure a complete knowledge transfer by their deployed professional to the TNHDC staff within a period of 2 weeks.
- 2) The TENDERER at the time of exit shall submit all information relating to the services rendered including but not limited to documents, records, configuration, bugs/errors and its resolutions relating to the services reasonably necessary to TNHDC or any other agency identified by TNHDC to carry out due diligence in order to transition the provision of services or any other agency identified. All properties provided by the TNHDC shall be returned. Any authorisations or letters issued by TNHDC for using the name of TNHDC on the field shall be null and void.
- 3) The updated contents or programs created under the contract shall be the property of TNHDC and should be handover by the TENDERER to TNHDC before the exit of the contract. The TENDERER shall not retain any copy of programs or contents in any form and a declaration to this respect shall be given by the TENDERER to TNHDC.

In Witness whereof the parties hereto have signed on the day, month and year above written in the presence of

For and on behalf of
TENDERER

For and on behalf of TNHDC

Witness:

Witness:

Witness:

Witness:



Request for Proposal (RFP)

(CALL-02)

Upgradation and Renovation of Poompuhar Production Centres

Tender Ref.: TNHDC/490/P1/21-22

Volume-2 Technical Bid (Envelope-1)

The Tamil Nadu Handicrafts Development Corporation Ltd (TNHDC)

759 Anna Salai, Chennai – 600 002

Phone:(044) 2852 1271/1325/5094

Fax: (044) 2852 4231

Email: tamilnaduhandicrafts@yahoo.co.in

Technical Bid (Envelope-1)

T1. Earnest Money Deposit details

#	Descriptions	Please fill up the details
1.	Name of the Bank	
2.	Demand Draft (DD) Number	
3.	DD Date	
4.	DD Amount	

T2. Bidder's Bank Account Details

#	Descriptions	Please fill up the details
1.	Bank Name	
2.	Branch Name and address	
3.	Account No.	
4.	IFSC code	
5.	MICR code	

T3. Furnish details for meeting the Eligibility Criteria

T3.1 Bidder's Legal Status

#	Description	Please fill up the details
1.	Name of the Bidder	
2.	Legal Status (Company/ Partnership/ Proprietary-ship)	
3.	Certificate of Registration or Firm Registration no. and date	
4.	Registered office address in the State of Tamil Nadu and neighbouring State, contact person, Personal Telephone No., and Email	
5.	Authorised Signatory of Tender	
	Name	
	Designation	
	Office Address	
	Personal Telephone Number	
	Email Address	
	Please enclose Letter of Authorisation or Power of Attorney to sign and submit the Tender	
6.	Permanent Account Number (PAN) details and enclose copy	
7.	Please furnish GST registration no. and date and enclose a copy	

T3.2 Bidder's Overall Experience

#	Description	Please fill up the details
1.	No. of years' experience in the field of construction/ renovation works.	From Year: _____ To Year: _____ No. of Years: _____
2.	Please furnish details of work orders executed	
3.	Customer name	
4.	Project name	
5.	Work Order or Agreement reference	
6.	Project status	
7.	Work completion certificates	
8.	Enclose a copy of the Work Order or Agreement	

T3.3 Bidder's relevant experience

#	Description	Work Order-1	Work Order-2	Work Order-3
1.	Customer name			
2.	Project name			
3.	Project description			
4.	Geographical spread			
5.	Value of the order			
6.	Work Order reference			
7.	Current status of the project			
8.	Enclose copies of the Work Order			
9.	Enclose a copy of completion certificate or performance certificate issued by the customer			

T3.4 Bidder's Annual Turnover

#	Description	Please fill up the details
1.	Year 2020-2021	
2.	Year 2019-2020	
3.	Year 2018-2019	
4.	Average Annual Turnover for the last 3 Audited Financial Years	
5.	Please enclose Auditor's Certificate, Annual Report, and Profit & Loss statement for the above Audited Financial years	

T3.5 Bidder's local Office details

#	Description	Please fill up the details
1.	Bidder's local office address in the State of Tamil Nadu and neighbouring State	
2.	Name of the local representative and contact details	
3.	Copy of the office landline phone bill/ rent agreement/ rent receipt	

T4. Work Plan Schedule

The format of a work plan schedule is given below for reference. The work plan schedule shall be prepared covering the tasks of all phases.

Sl.No	Task	Skillset	Man-month	Timeline in Months (M)			
				M-1	M-2	M-3	M-4
1	Preparation of the site and marking						
2	Demolition & clearing debris, Completion of foundation work, roofing retrofit work						
3	Completion of civil & structural retrofit work and filled flooring with pcc						
4	Retrofit the existing joineries and fixing new joineries, roofing & its components.						
5	Finishing of the external works - Plastering, Tile works, Electrical & Plumbing, painting work, etc.						
6	Completion of internal finish, any carpentry works, false ceiling, signage works, Lighting fixture & final coat of Painting						
7	Cleaning and handling of the site with all respective as built drawings, Checked measurement books, product details & its test certificates, etc...						

Note: Based on site condition and scope of work, the micro schedule for each work to be expecting from the contractor.

Signature of the Authorised Signatory of Tender:

Name of Authorised person:

Designation of Authorised person

Name and Address of Bidder:

Stamp of bidder:



Request for Proposal (RFP)

(CALL - 02)

Upgradation and Renovation of Poompuhar Production Centres

Tender Ref.: TNHDC/490/P1/21-22

Volume-3 Price Bid (Envelope-2)

The Tamil Nadu Handicrafts Development Corporation Ltd (TNHDC)

759 Anna Salai, Chennai – 600 002

Phone:(044) 2852 1271/1325/5094

Fax: (044) 2852 4231

Email: tamilnaduhandicrafts@yahoo.co.in

Price Bid (Envelope-2)

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
1	Demolition work						
	Demolition of existing concrete members,masonry walls with necessary safety and precautionary methodology cum practice at site.The debries to be dumped and removed-as per the the direction of the departmental officers in all respects-Complete.			Sq.M	370.00		
2	EARTHWORK EXCAVATION						
2.1	Earthwork excavation in sand silt or other loose soil wet sand or silt,light black cotton,sandy loam soil and to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary,depositing the surplus earth in places shown clearing and levelling the site with an initial lead of 10 metre and lifts as specified hereunder(including refilling) etc.,all complete in all respects complying with relevant standard specification.Narrow Cutting			Cu.M	65.55		
3	FILLING & COMPACTING						
3.1	SOIL FILLING: Filling in foundation and basement with filling excavated soil in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	242.12		
3.2	Gravel Filling: Supplying and filling basement with gravel from 10 km in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	250.00		
3.3	SAND FILLING : Supplying and filling in foundation and basement with filling sand in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications including cost of filling sand			Cu.M	87.11		
4	PLAIN CEMENT CONCRETE						
4.1	PLAIN CEMENT CONCRETE 1:5:10 - Cement concrete1:5:10(One of cement,five of sand and ten of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	80.19		

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
4.2	PLAIN CEMENT CONCRETE 1:2:4 - Cement concrete1:2:4(One of cement,two of sand and four of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	6.83		
4.3	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification			Sq.M	68.29		
5 SHUTTERING WORK							
5.1	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals,plinth beams,grade beams,staircase,steps,etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			Sq.M	162.08		
5.2	Supplying and erecting steel centering including necessary supports for plane surfaces for supporting the existing truss and other structural members,etc., which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over MS joists spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification and safety practice.			Sq.M	75.00		
6 RCC WORK without Reinforcement							

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
6.1	Cement Concrete 1 : 1 1/2 : 3 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement,for all R.C.C works namely foundation,Tee,rectangular beams,lintel,parapet cum drops,waist and landing slabs,canopy,fin projects,sunshades>window boxing slab, footing, pedastal and other similar works excluding the cost of reinforcement and fabrication charges,centering and shuttering but including laying,vibrating, finishing,curing,etc..-all complete complying with relevant standard.			Cu.M	66.04		
6.2	Cement Concrete 1 : 2 : 4 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement,for all R.C.C works namely foundation,Tee,rectangular beams,lintel,parapet cum drops,waist and landing slabs,canopy,fin projects,sunshades>window boxing slab, footing, pedastal and other similar works excluding the cost of reinforcement and fabrication charges,centering and shuttering but including laying,vibrating, finishing,curing,etc..-all complete complying with relevant standard.			Cu.M	7.20		
7	REINFORCEMENT FOR RCC WORK						
	Supplying, fabricating and placing in position of Mild steel/Ribbed Tor steel TMT Rod - Fe 500 for reinforcement for all RCC works in all floors including the cost of binding wire, bending, tying,Welding etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (Contractor has to make his own arrangements for the supply of steel and binding wire)			QTL	58.53		
8	PRE CAST CONCRETE WORK						
8.1	PRE CAST CONCRETE KERB : Manufacturing, supplying and fixing in position plain cement concrete precast kerb slab of size 600mm x 500mm x 100mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification and as directed by the departmental officers.			Sq.M	5.00		

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
8.2	PRE CAST CONCRETE JALLY : Manufacturing, supplying and fixing in position reinforced cement concrete jally with 50mm thickness in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting, finishing, curing, fixing and pointing with CM 1:3 (One Cement and Three Sand),etc., complete...complying with standard specification and as directed by the departmental officers.			Sq.M	7.20		
9 JOINERY WORK							
9.1	Doors:Supply and fixing of Pre laminated wood plastic composite doors - WPC shutter Panel of 28mm thick with WPC door frame at position as per the approved drawings and as directed by the departmental officers - which includes handle,hinges and locking facilities,other accessories,Labour Charges for fixing, Conveyance,Painting,etc- complete in all respects complying with relevant standard specification.			Sq.M	10.08		
9.2	FRP door Shutter with FRP door frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and hollow core frames of 3m wall thickness for styles and rails etc., of sizes specified by the departmental officers.			Sq.M	12.60		
9.3	UPVC Window-Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride)sliding type windows with a minimum outer frame size of 60mm x 58mm and profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm.The EPDM rubber covered with over all the edges of shutter.The shutter will be provided with multi point locks and handle.The corners and joints should be welded and cleaned.Radiations free pin headed plain or approved colour glass with Minimum 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action,strong locking systems and as per size for arresting noise and energy loss.The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames.The window should be got approved before use on work directed by the departmental officers. Which includes cost of material,Labour Charges for fixing, Conveyance,etc.- complete in all respects complying with relevant standard specification.			Sq.M	14.58		

Package-01 Poompohar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompohar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9.4	UPVC-Providing UPVC (Un-Plasticized Polyvinyl Chloride) Door: Providing and fixing casement doors fabricated from un-plasticized polyvinyl chloride (uPVC) sections.Profiles: The profiles should be three chamber system which provides high insulation properties with outer frame 60mm x 55mm with an outer wall thickness of 2.4mm. The window unit should be designed with all corner joints mitred and fusion welded. Frame should be steel reinforced with 25 x 24 x 25mm steel reinforcement with a thickness of 1mm to have dimensional stability. The sash should be of 60 x 102mm. The mullion should be of 60 x 74mm. The profiles should have co-extruded seals. Hardware: All the hardware like friction stays, handles should be screwed with self tapping screws. The handles, locks should be designed so that they cannot be released from outside. Glazing: The door system should be glazed with 5mm plain float glass / 6mm bison lam Installation: The profiles should be cut to length and welded 45 degrees. The door should be designed such that the water drainage does not pass through the reinforcement chamber. The window system should be fixed directly to the plastered brick wall using self expanding nylon plug and driving ms electroplated screws into plug - complete in all respects complying with relevant standard specification.			Sq.M	4.20		
9.5	provision for refurbishing the wooden working table - Supplying and fixing of Best Indian teakwood wrought and put up normally used for frames of doors including thress hold plate for front door and windows ventilators cup board and forany other similar joinery works with necessary plugs, rebates for shutters plaster grooves on all faces etc., including labour charges for fixing hold fasts complying with relevant, standard specifications etc., complete in all respects			Cu.M	0.11		
9.6	Supply and installation of 5 x Tier locker as per specification given below.Material- HPL board;Thickness of side top bottom and door:9mm; Thickness of inside divider & rear sides: 3mm;Overall height : 2000mm (Including tile skirting of 150mm);Size: 450mm (W) x 370mm (H) x 450mm (D)- Height of column-1850mm;Accessories: ss Hinges, aluminium Channels, lock &keys , Screw all complete...as per the technical design and as directed by the departmental engineers.- Provision for Cloak room facility for artisan's			Nos	20.00		
9.7	SUPPLY- provision for the supply of approved 5.5mm glass including transportation,packing and handling during transportation			Sq.M	5.00		

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9.8	SUPPLY- provision for the supply of approved 4mm glass including transportation,packing and handling during transportation			Sq.M	5.00		
9.9	provision for the wooden carpentry work to refurbishing existing joinery items - labour charges for fixing hold fasts,glass fixing,modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
9.9.1	Carpenter - class 1			Nos	10.00		
9.9.2	Carpenter - class 2			Nos	10.00		
9.10	Brought in furniture-Providing,fixing at position- A factory made modular furniture-desk of over all size of top as required with the standard height of 2'6" above FFL. It shall consist of 18mm thk.BWR plywood top as per design supported on 12mm thk BWR plywood verticals and the edges are finished with 2mm poly-edgeband.The all surface of the ply should finished with Laminate of approved make as per design with necessary pattern and colour.If required at site condition and design-The top surface of the furniture should be provided with 3" dia PVC wire manager of approved quality near the CPU / Monitor position along with modular electrical and LAN hub.The front surface of the furniture should have a provision for 6mm plain glass instead of Plywood surface as per design.The modular unit should furnished with readymade keyboard tray,adequate hardware fitting and brand of the laminate-(Merino/GreenLam/Equivalent).Complete			Sq.M	20.00		
9.11	Brought in furniture-Providing,fixing at position- A factory made modular furniture-desk of over all size of top as required with the standard height of 2'6" above sill and a depth of 1'0".It shall consist of 12mm thk.BWP plywood top as per design supported on 12mm thk BWP plywood verticals,back side finished with 6mm BWP Plywood and the edges are finished with 2mm poly-edgeband.The all surface of the ply should finished with Laminate of approved make as per design with necessary pattern and colour.The front surface of the furniture should have a provision for 6mm plain glass instead of Plywood surface as per design and adequate hardware fitting and brand of the laminate-(Merino/GreenLam/Equivalent).Complete			Sq.M	20.00		

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10	FLOORING WORK						
10.1	Ellis pattern Flooring-20MM thickness - Finishing the flooring top with Cement Mortar 1:4 (No Sand) using hard granite chips of 3mm to 10mm size-complete complying with standard specification and as directed by the departmental officers.			Sq.M	10.00		
10.2	Paver Block -Supplying and laying of 60MM THICKNESS M-30 GRADE RUBBER MOULDED PAVER BLOCK paved over sand base of 120MM complete complying with standard specification and as directed by the departmental officers.			Sq.M	50.00		
10.3	Supplying and fixing in position of matt finish Colour Vitrified Floor tiles (heavy duty / industrial quality)of any size of approved special quality minimum of 09mm thickness laid in cement mortar 1:3(One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.			Sq.M	100.00		
10.4	Supplying and fixing in position of colour Antiskid Ceramic floor tiles of size 300mmx300mm of approved special quality of minimum of 6mm thickness laid in cement mortar 1:3 (One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.Note:(The colour and quality shall be approved from the Competant Authority before use only one particular size of ceramic wall tiles to be used for one building)			Sq.M	25.00		
10.5	Wall tiles- Supplying and fixing in position of Colour glazed wall tiles of any size 8mm thickness laid in cement mortar 1:2(One of cement and two of sand) 10mm thick for wall facing / dadoing ,skirting over the plastered surfaces including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers. Note:(The colour make and quality shall be approved from the Competant Authority before use)			Sq.M	25.00		

Package-01 Poompohar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompohar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10.6	Supplying and fixing of flume or Matte or Leather finished (RED or GREY) Granite slab of 18 mm to 20 mm thick of approved quality laid in CM 1:3 (one of cement and three of sand) 20mm thick over including cutting the granite slab to the required size where ever necessary, nosing the edges to the required shape including cost of granite slab, polishing laying finishing etc all complete in all respects and as directed by the departmental officers. (Measurement will be taken including bearing also. The quality and color of Granite slab shall be got approved by the Competant Authority before fixing.)			Sq.M	16.00		
11	MASONRY WORK						
11.1	Provision-Brick work in cement mortar 1:5(One of cement and Five of sand) using chamber burnt Second class Table moulded stock bricks of size 9"x 4 1/2"x 3" having minimum average crushing strength of 50Kg/sqcm for super structure in the following floors including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings..			Cu.M	10.00		
11.2	Brick work in following Cement Mortar using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.			Cu.M	39.85		
11.3	Brick partition walls of 11cm thickness using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.(Hoop iron reinforcement will be measured and paid for separately)			Sq.M	150.00		
12	PLASTERING WORK						
12.1	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.			Sq.M	350.00		

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
12.2	Provision for retrofit work for sunshade or any ceiling surface - Special Plastering Cement Mortar 1:3 (One cement and Three sand) with water proof compound for a thickness of 12mm in all floors including curing etc.(mixed with water Proof Compound 2 Kg/10Sqm along with approved WPC coats) complete complying with standard specification and as directed by the departmental officers.			Sq.M	101.84		
13	PAINTING WORK						
13.1	Painting two coats of newly plastered wall surface with ready mixed weather proof emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	1200.00		
13.2	Painting two coats of newly plastered wall surface with ready mixed emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	800.00		
13.3	Painting over any steel/Iron work with two coats of best quality approved 1st class synthetic ready mixed enamel paint of approved quality etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	165.00		
13.4	Painting over any wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all respects complying with relevant standard specification including any existing painting scrapping and removal of existing paint,etc..and the whole works as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	134.02		
14	ROOFING WORK						

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
14.1	Supply- fabrication- erection of MS Tubular sections along with necessary MS plates, cleats, bolts & nuts with good welding. The M.S structure will be applied with one coat of zinc chromate primer and finished paint. Supply – Laying – Fixing of pre coated plain / Tile profile sheet as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	350		
14.2	Supply – Laying – Fixing of terracotta Mangalore Tile over newly fabricated roofing structure and 10mm thick factory made eaves board at eaves as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	250		
14.3	Supply-fabrication and erection of Steel structural columns at required position along with base plate and required welded and bolt-nut joints as per approved design and relevant drawings. The whole sections will be applied with one coat of zinc chromate primer and finished two coat of paint including conveyance, loading, unloading, handling with required equipments and tools, etc. all complete complying with relevant standard specification and by approved design and as directed by the departmental officers.			Kg	8000		
14.4	Weld mesh work-Supply and fixing of weld mesh with specified grid size welded over MS angle frames with a size of 40X40MM at position as per the approved drawings and as directed by the departmental officers - which includes standard welding and any opening & locking facilities, Labour Charges for fixing, Conveyance, Painting, etc-complete in all respects complying with relevant standard specification.			Kg	1200.00		
14.5	Laying – Fixing of existing Asbestos sheets over vertical/horizontal wall or roofing surface as per approved design including handling at site, fixing bolts&nuts with required cascade, etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	600		
14.6	UPVC GUTTER - Supply- fabrication- erection of uPVC Gutter along with necessary upvc fittings and supported with GI steel clamp, cleats, bolts & nuts, etc. The GI clamps will be applied with one coat of zinc chromate primer and finished paint as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			RM	45		

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
14.7	Provision for Operating the crane - Hire and running charges of crane 20T capacity to hold the the existing truss on position			day	5		
15	STEEL WORK						
15.1	Supplying and fixing of in position of 10 Sq.MM Mild steel square section fabricated safety Grills for windows.The M.S Grills will be applied with one coat of primer and two coat of painting as per approved design.This work includes the cost of material,Labour Charges for fixing Conveyance,Packing Charges, Scaffolding, etc.. complete as per relevant standard specification as directed by the departmental officers.			kg	2028.0		
15.2	Supplying and erecting of pull and push type gear operated Rolling Shutter of approved size and section using 18 guage G.I. Sheet confirming to ISI standard with Hood covers including one coat of approved primer transport charges etc. complete in all respects, complying with relevant standard specifications and as directed by the departmental officers (The Model/Brand of the Rolling shutter has to be got approved by the the departmental officers before fixing).			Sq.M	18.0		
16	Rain water Harvesting pit -all complete complying with relevant standard specification and as directed by the departmental officers.			Nos	4.0		
17	Electrical LT,Elv & Illumination works -all complete complying with relevant standard specification and as directed by the departmental officers.						
18	Plumbing and Sanitation works -all complete complying with relevant standard specification and as directed by the departmental officers.						
19	Fire & Safety Systems works -all complete complying with relevant standard specification and as directed by the departmental officers.						
20	Supply and Fixing of domestic & safety signages -all complete complying with relevant standard specification and as directed by the departmental officers.						

Package-01 Poompahar Brass & Bell Metal Production Centre,Nachiarkoil

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Nachiarkoil, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
21	Total for the Above works (Sum of Above)						
22	Add Concessional rate of GOODS & SERVICE TAX @ 18% (CGST at 9%+SGST at 9%) for any Government construction contracts.		18%				
23	Grand Total Including GST@18% (Sum of Sl.no.21 to Sl.no.22)						
	Rupees in Words-						

PROJECT: PROPOSED PHE BOQ FOR PRODUCTION UNIT AT NACHIYARKOIL							
SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
I	PLUMBING AND SANITATION WORKS						
1	Receiving, Installing, testing and commissioning of white color Indian water closet with dual flush open Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	4				
2	Receiving, Installing, testing and commissioning of white color European water closet with dual flush Concealed Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	2				
3	supply, Fixing, testing & Commissioning of Rectangular type wash basin white color with single lever sensor tap, 32mm dia.CP bottle trap with extension pipe, 32 mm dia. CP waste Coupling, M.S.wall brackets with a pair of SS screws to support the basin, 1no.15mm CP angle valve with 450 mm long CP inlet connection pipe, CP wall flange all of approved etc	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	CP fittings						
3.1	Supplying, fixing, testing and commissioning, White glazed Hindware urinals with SS connection pipe, Spreader with SS bolts and nuts to fix the urinal with all hangers and brackets complete. For Pillar cock:	Nos	3				
4	Supplying, fixing, testing and commissioning, White glazed Hindware urinals with SS connection pipe, Spreader with SS bolts and nuts to fix the urinal with all hangers and brackets complete.	Nos	2				
5	Supply,Fixing, testing and commissioning, White glazed Hindware urinal Divider with SS bolts and nuts to fix and brackets complete	Nos	1				
6	Supplying, installing, testing and commissioning of CP single lever mixer unit comprising of diverter & shower unit / spout, with necessary wall flanges etc., complete	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
7	Collecting fixing, testing and commissioning of CP brass concealed stop cock with adjustable wall flange for master control in toilets.						
	20 mm dia	Nos	2				
8	supply, fixing, testing CP double coat hook fixed on to toilet doors with SS screws complete.	Nos	9				
9	supply, fixing, testing and commissioning of CP 20mm dia 600mm long towel rail with necessary SS screws, CP end clamps etc.complete.	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
10	supply, fixing, testing soap dispenser with metallic bottle and necessary SS screws, etc complete	Nos	2				
11	supply, fixing, testing CP toilet paper holder with SS flap fixed with SS screws etc, complete.	Nos	2				
12	supply, checking, storing & fixing 15 mm. dia exposed angular stop cock with 1/2" outlet with wall flange and all accessories,	Nos	4				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
II	SOIL WASTE VENT AND RAIN WATER PIPES						
13	Supplying, fixing, testing and commissioning of PVC Soil, waste and ventilating pipes (SWR) conforming to IS:13592 /1990 -Type B with rubber ring (conforming to IS : 5382) joints inclusive of all necessary specials like bends, tee, offsets, door bends, junctions, cowls etc., laid under floor /fixed on walls and in pipe shaft with proper pipe support like brackets, hangers, MS grip bolts etc., complete. The support shall be painted with two coats of enamel paint.						
	INTERNAL						
13.1	40 mm for Wash basin drains	Rmt	6				
13.2	50 mm for Washing M/c & Sink	Rmt	12				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
13.3	75 mm Waste pipe	Rmt	24				
13.4	110 mm soil pipe	Rmt	12				
	VERTICAL						
13.5	110 mm (Rain water -vertical)	Rmt	42				
13.6	110 mm (soil -vertical)	Rmt	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
13.7	75 mm (waste -vertical)	Rmt	3				
14	Supplying, installing, testing and commissioning of PVC Floor trap with 110mm dia inlet and 75mm dia. outlet fixed on a bed of cement concrete with 150 x 150mm stainless steel type grating with threaded cover (Heavy duty type) etc., complete. The cost shall include Cockroach Traps.,	Nos	6				
15	Providing and fixing Heavy class S.S. grating with cockroach/mosquito proof S.S. strainer of Chilly or equivalent make, as approved, (incl cockroach trap) including setting in floor with cement mortar to match with floor finish as per requirements	Nos	8				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
III	INTERNAL WATER SUPPLY SYSTEM						
16	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc. with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 and restore the same in original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F 4931 / 724. The solvent used shall be of approved make as recommended by the pipe manufacturer. Rate shall include necessary MS supports, clamps, hanging rods, Grip bolts and painting of all supports with 02 coats of enamel paint etc., complete in all respect.	Rmt	54				
	Cold Water - Internal						
	a) 20 mm dia (I.D)						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
17	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete						
	Riser & Terrace Ring Main						
	a) 25 mm dia (I.D)	Rmt	24				
	b) 32 mm dia (I.D)	Rmt	30				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	c) 40 mm dia (I.D)	Rmt	18				
	d) 50 mm dia (I.D)	Rmt	24				
18	Supplying, installing and testing and commissioning of approved make PN 16 class GM ball valves with necessary unions etc., complete in all respect						
	a) 20 mm dia	Nos	6				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	b) 25 mm dia (Screwed ends)	Nos	2				
	c) 32 mm dia (Screwed ends)	Nos	2				
	d) 40 mm dia (Screwed ends)	Nos	2				
	e) 50 mm dia (Screwed ends)	Nos	2				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
19	Supplying, installing, testing and commissioning approved make pilot operated float valve with 2 Nos. bypass connection lines						
	a) 40mm dia	Nos	1				
20	Providing and fixing GM Air release valve incl 25 to 20 reducer , double acting, of approved make, having 2 chambers with ebonite ball, small and large orifices with isolating stop screw down valve, GM seats, high tensile brass spindle with cap, conforming to standard water works pattern. Flanges as per IS : 15381, flat faced and drilled, complete of the following nominal bore (NB) size:	Nos	1				
21	M.S brackets for the supports of pipes	Kg	20				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
V	EXTERNAL SEWERAGE SYSTEM						
22	Providing and fixing testing and commissioning of PVC pipe for Risers to IS:13592 of SWR quality Type B, for ground floor buried lines, external buried including all fittings like tees, elbows, bends, collars, coupling, brackets, clamps, fasteners, , etc jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste complete. The pipes shall be fixed properly aligned vertical with suitable Galvanized MS pipe clamps. Work to include making necessary holes in the masonry walls etc.. and making good the damaged portions with mortar filling with 1:4 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified.,						
	a)75mm dia	Rmt	18				
	b)110mm dia	Rmt	24				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	c)160mm dia	Rmt	30				
23	Supplying, fixing and testing of PVC Fabricated Gully Trap with top square bodies 300mm x 300mm, set in PCC 1:3:6 bed with RCC chamber and top cover shall be as indicated in the drawings, internal and external plastering 12mm thick in CM1:6 with water proofing compound including, excavating, refilling and ramming ,D.I (heavy duty type 40T) manhole cover with frames Heavy duty etc., complete	Nos	10				
24	Construction of inspection chamber with 230mm best quality approved Table Moulded bricks in CM 1:3 over a bed of 100mm thick PCC 1:4:8, internal walls plastered in CM 1:3 with water Proofing Compound and external wall with CM1:3 with sponge finish, benching and channeling in PCC1:4:8. Supplying and fixing D.I (heavy duty type 40T) manhole cover with frames (Heavy duty) . The quoted rate shall also include necessary excavation and backfilling the area around the inspection chamber with proper compaction. Internal chamber maximum depth not exceeding 900mm.						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	Soil Network						
	a) 450mm x 450mm (clear internal dimension)	Nos	2				
	b) 600x600 internal dimension Depth up to 600mm	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
25	<p>FOR INJECTION WELL:</p> <p>Earth work - digging the well 4feet dia- 10feet deep for injection well.</p> <p>supply and installation of Reinforced concrete Rings - 3 feet OD & 1 feet Height, 65 MM Thick - 10 no's.</p> <p>supply and installation of Reinforced concrete slab- 3 feet in dia, 75 mm thick, and 25 mm perforated - 8 mm mild steel rods used for reinforcement -1" Perforated - 1no's.</p> <p>supply and installation of Reinforced concrete closing slab - 3 feet in dia OD, 75 mm thick, 8 mm mild steel rods used for reinforcement with 600mm x 600mm Square FRP/Plastic manhole cover - 1no's.</p> <p>supply and installation of MS grating - 6*6inch square - 2no's</p> <p>Filtration Media Installation For Injection Well Unit: 40 mm crushed stones - 0.12cum, 20 mm crushed stones - 0.12cum, Brick Bats - 0.12cum, Mixture of Brick Bats and Gravels for filling the gap between excavated earth and RCC rings-1.6cum</p> <p>Shifting of excavated earth to the approved / authorized dumping yard as directed by the authorities / Site in charge</p>	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
VI	EXTERNAL WATER SUPPLY						
26	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	a) 32 mm dia (I.D)	Rmt	24				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	b) 40 mm dia (I.D)	Rmt	18				
27	Supplying, installing, testing and commissioning butterfly valves with standard lever conforming to IS standard 13039 with necessary flanges, nuts and bolts etc., complete.						
	a) 100 mm dia	Nos	2				
28	Supplying and fixing in position approved make PN 16 non-return valve conforming to IS 778 with unions etc., complete.						
	a) 32 mm dia	Nos	2				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	b) 40mm dia	Nos	1				
29	Supplying and fixing in position approved make pot / Y - strainer complete conforming to IS standards etc., complete.						
	a) 50 mm dia	Nos	1				
30	Supplying, installing, testing and commissioning of factory made double layer white water tank with lid.Erection of the connecting pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.(Sintex or any Eqvnt.)						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	a)per Litre for above spec.	per litre	1				
	b) for 500Litre	Nos	1				
	c) for 1000Litre - Black colour	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS		
				SUPPLY	ERECTION	SUPPLY	ERECTION	
					SUB TOTAL			
					GRAND TOTAL FOR SUPPLY & ERECTION			

ELECTRICAL & ELV BOQ FOR PRODUCTION UNIT AT NACHYARKOIL

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
1.0	POINT WIRING:						
1.1	Supply, installation, testing and commissioning of point wiring using 3 runs of 1.5 sqmm FRLS (P, N & E) PVC insulated, unsheathed,multistrand copper conductor wires in 20mm dia PVC conduit. The rate shall include wall cutting, plastering, supply of wires, conduits, junction box, termination accessories, 16G metal switch boxes modular type one/two way 6A switch/sockets,suitable front plate as required.						
a)	Primary Point(one way)	Point	30				
b)	secondary Point	Point	20				
c)	Mirror light point (one way)	Point	4				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
d)	Two way point light point	Point	4				
e)	one way fan point with 1M electronic regulator	Point	20				
f)	Exhaust fan point including 6A socket near fan	Point	7				
g)	Call bell point with bell push	Point	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h)	Flexible spring type cable arrangement LED light point with dimmer control	Point	6				
2.0	PRIMARY CIRCUIT WIRING:						
2.1	Supply, Wiring testing & commissioning of 2R 2.5 with 1R 1.5sqmm PVC insulated copper conductor 1100 volts grade FRLS wire in suitable concealed heavy duty PVC conduit with all accessories as required for lighting & small power circuit mains from DB to switch/socket board.	Mtrs	150				
2.2	Supply, Wiring testing & commissioning of 2R 4.0 with 1R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for 16A power circuit mains from DB to socket.	Mtrs	150				
2.3	Supply, Wiring testing & commissioning of 4R 6.0 with 2R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for DB incomer.	Mtrs	50				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
3.0	POWER OUTLETS:						
3.1	Supply, fixing, testing & commissioning of 6A 5pin modular type socket & switch located at switch box/location with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	12				
3.2	Supply, fixing, testing & commissioning of 16A 5pin modular type dependent socket & switch with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	6				
3.3	Supply, fixing, testing & commissioning of 6/16A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.4	Supply, fixing, testing & commissioning of 20A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	12				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
4.0	DISTRIBUTION BOARDS:						
4.1	Provision for -Supply, installation, testing & commissioning of 8way TPN 7segment double door MCB Distribution boards (IP42) for Lighting distribution as per the technical specification & comprising of following.	set	1				
	Incomer						
	1No 40A 4P MCB						
	Phase control						
	3Nos 40A, 30mA DP RCCB						
	Outgoings						
	24Nos 6-20A SP MCB						
4.2	Provision for -Supply, installation, testing & commissioning of 12way TPN 7segment double door MCB Distribution boards (IP42) for power distribution as per the technical specification & comprising of following.	set	1				
	Incomer						
	1No 63A 4P MCB						
	Phase control						
	3Nos 63A, 100mA DP RCCB						
	Outgoings						
	30Nos 16-20A SP MCB						
4.3	Provision for -Supply, installation, testing & commissioning of 8way SPN double door horizontal MCB Distribution boards (IP42) as per the technical specification & comprising of following.	set	1				
	Incomer						
	1No 25A 30mA DP RCCB						
	Outgoings						
	6Nos 6-10A SP MCB						

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
4.4	Provision for - Shifting, installation, testing & commissioning of existing Distribution boards as per the technical specification	set	2	0		0	
4.5	Provision for existing machineries / industrial / heavy loaded equipments,Diesel generators,etc.. to be removed technically and safely shifted & stored inside the production unit. After construction activities are completed; these machines will be replaced at required position again and those will be technically installed and commissioned with required electrical industrial wiring,controls,etc..	Set	5	0		0	
5.0	CABLE & TERMINATION:						
5.1	Supply, laying, testing & commissioning of following cables with termination using suitable glands & lugs.						
a	4Cx25sqmm A2XFY cable	Mtrs	30				
	Termination for above cable	Ends	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
b	4Cx16sqmm A2XFY cable	Mtrs	30				
	Termination for above cable	Ends	4				
6	Luminaires						
6.1	Supply, Installation of the following LED light fixtures & fans with necessary accessories such as fasteners, downrods, M.S.pipes & all accessories as required at site.						
a	26W Ceiling/false ceiling mounted LED light	Set	2				
b	20W LED tube light	Set	26				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
c	Water proof Wall Mounted fancy 12 W LED light	Set	6				
d	LED-Picture light/ Mirror light (1X8W)	Set	4				
e	LED-Outdoor water proof down light/ focus light (1X8W)	Set	6				
f	Track light fixture for Light fixture	Nos	4				
g	Track light fixture with 8W LED LIGHT	Nos	6				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h	Track light fixture with 4W LED LIGHT	Nos	8				
i	LED strip with regulator	Mtrs	20				
j	Chandelier Light	Set	1				
k	1200mm dia Ceiling Fan	Set	10				
l	Heavy duty industrial exhaust Fan	Set	4				
m	300mm dia Exhaust Fan	Set	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
n	200mm dia Exhaust Fan	Set	2				
o	Wall Mounted fan	Set	2				
p	40W street light with wall bracket	Set	4				
q	bulkhead fitting	Set	4				
r	Buzzer	Set	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
s	Flexible spring type cable arrangement LED light point with dimmer control	Nos	6				
7.0	COMMUNICATION CABLE & CONDUITS:						
7.1	Supply and laying following sizes of Heavy duty PVC conduits concealed in the ceiling, floors, wall etc with all accessories like bends, couplers, pullwire etc including cutting and filling the chases						
a	40mm Dia	Mtr	100				
b	25mm Dia	Mtr	80				
c	19mm Dia	Mtr	25				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
7.2	Supply, laying of CAT6 cable for LAN communication.	Mtr	10				
7.3	Supply and installation of modular flush mounted RJ45 data Outlet with front plate 1.2mm thick GI Box complete with all accessories as required.	Nos	2				
7.40	Supply, laying of twin core twisted pair cable for speaker	Mtr	15				
8.0	EARTHING						
8.1	Supply,Installation, testing & commissioning of 40mm dia chemical Earth electrode with flange of 3m length buried in ground as per IS The rates shall include excavation of the pit, construction of masonry chamber,providing heavy duty concrete cast slab , painting & making etc.,	Set	1				
8.2	Supply, Wiring testing & commissioning of 2R 6.0 sqmm PVC insulated copper conductor in suitable concealed heavy duty PVC conduit with all accessories as required for main earthing	mtr	30				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
8.3	provision for the Electrical repair work to refabricating the existing electrical conduit or fixtures/ items - labour charges for fixing,modifications as per standard specifications etc., complete in all respects						
	Electrician - class 1	Nos	14	0		0	
	Electrician - class 2	Nos	12	0		0	
SUB TOTAL							
GRAND TOTAL							

FIRE & SAFETY BOQ FOR PRODUCTION UNIT,NACHIYARKOIL					
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	FIRE & SAFETY SYSTEM				
A	P.A. SYSTEM				
1.0	Supplying, installing, testing and commissioning of package type 6 zone selector 16 Bit micro controller technology P.A. console/call zone station and interfacing with EPABX/prerecorded Message Manager with connected accessories-complete.	1	No		
2.0	Supplying, installing, testing and commissioning of solid state Amplifier of 50W RMS out put in rack with BT & USB connectivity, including necessary control wires, jacks etc. complete.	1	No		
3.0	Supplying, installing, testing and commissioning of 6W wall mounted type speakers with mounting fixtures	8	Nos		
4.0	Supplying and laying of 2 core of 1 sq. mm, Annealed tin copper conductor, PVC Sheathed armoured FRLS Cable.	90	Rmt		
5.0	Supplying, installing, testing and commissioning of intergrated smoke detector cum fire alarm hooter including necessary control wires provisions,etc. complete.	6	Nos		
6.0	Supplying, installing, testing and commissioning of 220v single phase battery cum raw power operated steel body hooter including necessary control wires and manual switch,etc. complete.	1	Nos		

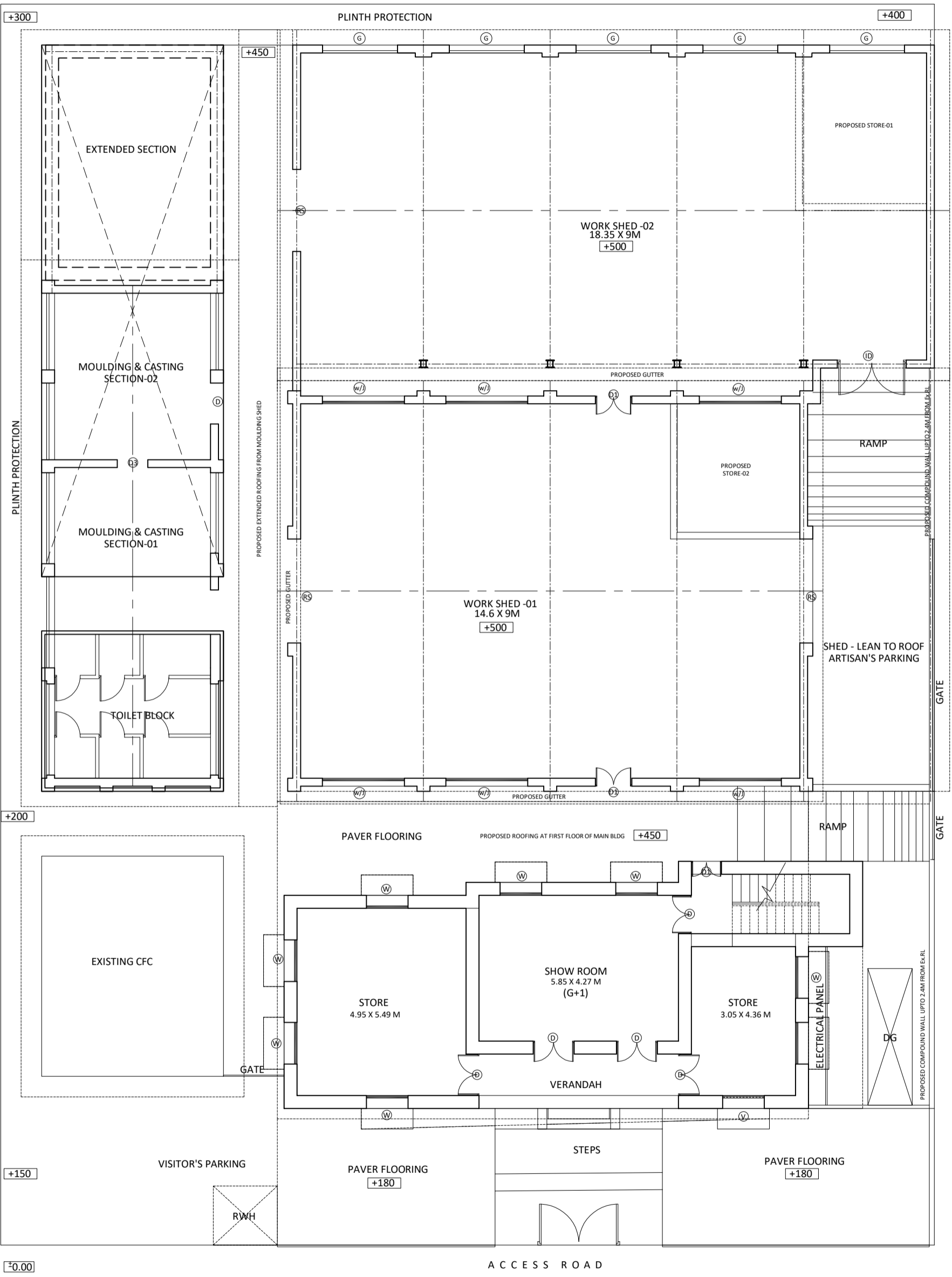
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
Sub Total for PA system					
B	FIRE EXTINGUISHERS				
1.0	Supplying, installing and commissioning Portable Fire extinguishers of following type & capacity.				
a	ABC powder type fire extinguisher of 6 Kgs. Capacity, Mono Ammonium Phosphate Powder 90, Stored pressure type, Pressure Gauge, Controllable discharge mechanism with Hose & Nozzle etc. Complete. Confirming to IS:15683	5	Nos.		
b	Carbon-di- oxide type fire extinguisher of 4.5 kgs. Capacity, CO2 gas filled in brand new seamless cylinder with control discharge mechanism fitted with bend and horn etc. complete, confirming to IS: 15683.	5	Nos.		
2.0	Supplying, installing and commissioning of 03 nos fire bucket sand along with holder stand made with mild steel and painted in approved red colour..Complete	3	Nos.		
Sub Total for Fire extinguishers					

SIGNAGE BOQ FOR PRODUCTION UNIT,NACHIYARKOIL					
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	SIGNAGES				
1.0	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut. PVC non-reflective self adhesive vinyle painted foam board along with directional FR Reflective tape, complete with mirror fasteners.				
a.	Signages with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm * 30cm and shall be fixed at the height of 2mts, from finished floor near Exit.	1	Nos.		
2.0	Floor & room indentification signage (i.e, Drilling lathe,Store,etc..) at each stair enclosure on every floor, indicating the floor number in words,work shops,toilets,etc.. lettering size shall be 7.5cm with contrasting colour from back ground. Size shall be 15cm * 60cm.	10	Nos.		
3.0	Providing and fixing in position the signage of " Incase of fire do use this " Size 8" x 8"	1	Nos.		
4.0	Providing and fixing in position the signage of " Fire Extinguisher " to be pasted immediately above the every extinguisher. Size 4" x 4"	10	Nos.		
5.0	Providing and installing in position - the following type of sign boards made out of 3mm thick acrylic sign letters with a maximum height of 450mm required form/shape ss frames and inbuilt LED lights..Complete	3.5	Sq.M		

SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
6.0	Providing and installing in position - the following type of sign boards made out of 1mm thick printed with aluminium casing with end cap cum fixing supports,screws,labour,etc..Complete	4.0	Nos.		
7.0	Providing and installing in position - the following type of sign boards made out of 3mm thick ACP sign board with fixing supports and MS frames,screws,labour,etc..Complete	2.2	Sq.M		
TOTAL FOR SIGNAGE					

ALL DIMENSIONS ARE IN METERS.

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STREET

GROUND FLOOR PLAN

PROJECT TITLE		
PROPOSED / RETROFITTING WORK - PRODUCTION UNIT AT NACHIYARKOIL FOR POOMPUHAR.		
DRAWING TITLE		
PRODUCTION UNIT GROUND FLOOR PLAN		
DATE	SCALE	ORIENTATION
06.12.2021	NTS	
DRAWING NO : RC/POOM2122/PLINK-01		
ARCHITECTURAL CONSULTANT		
RUKSA CONSORTIA 201, BATHAMPET 1ST STREET, FIVE FURLONGS ROAD, GUMDI, CHEERVA - 605 002. CONTACT : 044-425 225 34 ruksaconsortia@gmail.com		

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
1	Demolition work						
	Demolition of existing concrete members, masonry walls with necessary safety and precautionary methodology cum practice at site. The debris to be dumped and removed as per the direction of the departmental officers in all respects-Complete.			Sq.M	500.00		-
2	EARTHWORK EXCAVATION						
2.1	Earthwork excavation in sand silt or other loose soil wet sand or silt, light black cotton, sandy loam soil and to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary, depositing the surplus earth in places shown clearing and levelling the site with an initial lead of 10 metre and lifts as specified hereunder (including refilling) etc., all complete in all respects complying with relevant standard specification. Narrow Cutting			Cu.M	77.40		-
3	FILLING & COMPACTING						
3.1	SOIL FILLING: Filling in foundation and basement with filling excavated soil in layer of 150mm thickness well watered, rammed and consolidated - complying with relevant standard specifications.			Cu.M	77.40		-
3.2	Gravel Filling: Supplying and filling basement with gravel from 10 km in layer of 150mm thickness well watered, rammed and consolidated - complying with relevant standard specifications.			Cu.M	560.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
3.3	SAND FILLING : Supplying and filling in foundation and basement with filling sand in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications including cost of filling sand			Cu.M	114.21		-
4	PLAIN CEMENT CONCRETE						
4.1	PLAIN CEMENT CONCRETE 1:5:10 - Cement concrete1:5:10(One of cement,five of sand and ten of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	114.65		-
4.2	PLAIN CEMENT CONCRETE 1:2:4 - Cement concrete1:2:4(One of cement,two of sand and four of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	12.02		-
4.3	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification			Sq.M	497.40		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
4.4	Providing pre-constructional Antitermite treatment including cost of chemicals labour as per standard specifications for preparing the area for treatment by spraying chemicals and other incidental charges etc.. complete. The rates should be for antitermite treatment from the plinth beam and brick masonry with super structure in contact with the back fill earth and at the junction of the walls. The top surface of filled earth for flooring and the soil along with the perimeter of the building by making holes with the crow bar and poured 5% termiticide "Chloripyrifos" and spraying the same termiticide solution on the wooden frames and treating the other periphery of buildings etc., complete in all respects as per IS 6313 (part II) / 1981 and as directed by the departmental officers.			Sq.M	720.00		-
5 SHUTTERING WORK							
5.1	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase, steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			Sq.M	150.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
5.2	Supplying and erecting steel centering including necessary supports for plane surfaces for supporting the existing truss and other structural members, etc.. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over MS joists spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification and safety practice.			Sq.M	96.00		-
6 RCC WORK without Reinforcement							
6.1	Cement Concrete 1 : 1 1/2 : 3 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement, for all R.C.C works namely foundation, Tee, rectangular beams, lintel, parapet cum drops, waist and landing slabs, canopy, fin projects, sunshades, window boxing slab, footing, pedestal and other similar works excluding the cost of reinforcement and fabrication charges, centering and shuttering but including laying, vibrating, finishing, curing, etc..-all complete complying with relevant standard.			Cu.M	70.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
6.2	Cement Concrete 1 : 2 : 4 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement, for all R.C.C works namely foundation, Tee, rectangular beams, lintel, parapet cum drops, waist and landing slabs, canopy, fin projects, sunshades, window boxing slab, footing, pedestal and other similar works excluding the cost of reinforcement and fabrication charges, centering and shuttering but including laying, vibrating, finishing, curing, etc..-all complete complying with relevant standard.-provision			Cu.M	10.00		-
7	REINFORCEMENT FOR RCC WORK						
	Supplying, fabricating and placing in position of Mild steel/Ribbed Tor steel TMT Rod - Fe 500 for reinforcement for all RCC works in all floors including the cost of binding wire, bending, tying, Welding etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (Contractor has to make his own arrangements for the supply of steel and binding wire)			QTL	59.59		-
8	PRE CAST CONCRETE WORK						
8.1	PRE CAST CONCRETE KERB : Manufacturing, supplying and fixing in position plain cement concrete precast kerb slab of size 600mm x 500mm x 100mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification and as directed by the departmental officers.			Sq.M	5.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
8.2	PRE CAST CONCRETE JALLY : Manufacturing, supplying and fixing in position reinforced cement concrete jally with 50mm thickness in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting, finishing, curing, fixing and pointing with CM 1:3 (One Cement and Three Sand),etc., complete...complying with standard specification and as directed by the departmental officers.			Sq.M	24.00		-
8.3	PRE CAST CONCRETE VERTICAL SUPPORT WITH PRECAST SLAB for Compound Wall : Manufacturing, supplying and fixing in position minimum of 35mm thickness reinforced cement concrete slab with vertical support minimum size of 90mmX 90mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting, finishing, curing, fixing and pointing with CM 1:3 (One Cement and Three Sand),etc., complete... complying with standard specification and as directed by the departmental officers.			Sq.M	733.14		-
9 JOINERY WORK							
9.1	Doors:Supply and fixing of Pre laminated wood plastic composite doors - WPC shutter Panel of 28mm thick with WPC door frame at position as per the approved drawings and as directed by the departmental officers - which includes handle,hinges and locking facilities,other accessories,Labour Charges for fixing, Conveyance,Painting,etc-complete in all respects complying with relevant standard specification.			Sq.M	2.52		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9.2	FRP door Shutter with FRP door frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and hollow core frames of 3m wall thickness for styles and rails etc., of sizes specified by the departmental officers.			Sq.M	12.60		-
9.3	provision for refurbishing the wooden working table - Supplying and fixing of Best Indian teakwood wrought and put up normally used for frames of doors including thress hold plate for front door and windows ventilators cup board and for any other similar joinery works with necessary plugs, rebates for shutters plaster grooves on all faces etc., including labour charges for fixing hold fasts complying with relevant, standard specifications etc., complete in all respects			Cu.M	0.11		-
9.4	Supply and installation of 5 x Tier locker as per specification given below. Material- HPL board; Thickness of side top bottom and door: 9mm; Thickness of inside divider & rear sides: 3mm; Overall height : 2000mm (Including tile skirting of 150mm); Size: 450mm (W) x 370mm (H) x 450mm (D)- Height of column- 1850mm; Accessories: ss Hinges, aluminium Channels, lock & keys , Screw all complete...as per the technical design and as directed by the departmental engineers.- Provision for Cloak room facility for artisan's			Nos	20.00		-
9.5	SUPPLY- provision for the supply of approved 5.5mm glass including transportation, packing and handling during transportation			Sq.M	5.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9.6	SUPPLY- provision for the supply of approved 4mm glass including transportation, packing and handling during transportation			Sq.M	5.00		-
9.7	provision for the wooden carpentry work to refabriching existing joinery items - labour charges for fixing hold fasts, glass fixing, modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
9.7.1	Carpenter - class 1			Nos	10.00		-
9.7.2	Carpenter - class 2			Nos	10.00		-
9.8	provision for the iron retrofit work to refabriching existing joinery and truss items - labour charges for fixing hold fasts, glass fixing, modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
9.8.1	Welder - class 1			Nos	20.00		-
9.8.2	Welder - class 2			Nos	20.00		-
10	FLOORING WORK						

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10.1	Ellis pattern Flooring-20MM thickness - Finishing the flooring top with Cement Mortar 1:4 (No Sand) using hard granite chips of 3mm to 10mm size-complete complying with standard specification and as directed by the departmental officers.- Provision			Sq.M	10.00		-
10.2	Paver Block -Supplying and laying of 60MM THICKNESS M-30 GRADE RUBBER MOULDED PAVER BLOCK paved over sand base..complete complying with standard specification and as directed by the departmental officers.			Sq.M	108.00		-
10.3	Supplying and fixing in position of matt finish Colour Vitrified Floor tiles (heavy duty / industrial quality)of any size of approved special quality minimum of 09mm thickness laid in cement mortar 1:3(One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.			Sq.M	16.80		-
10.4	Supplying and fixing in position of colour Antiskid Ceramic floor tiles of size 300mmx300mm of approved special quality of minimum of 6mm thickness laid in cement mortar 1:3 (One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.Note:(The colour and quality shall be approved from the Competant Authority before use only one particular size of ceramic wall tiles to be used for one building)			Sq.M	25.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10.5	Wall tiles- Supplying and fixing in position of Colour glazed wall tiles of any size 8mm thickness laid in cement mortar 1:2(One of cement and two of sand) 10mm thick for wall facing / dadoing ,skirting over the plastered surfaces including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers. Note:(The colour make and quality shall be approved from the Competant Authority before use)			Sq.M	26.00		-
10.6	Supplying and fixing of flame or Matte or Leather finished (RED or GREY) Granite slab of 18 mm to 20 mm thick of approved quality laid in CM 1:3 (one of cement and three of sand) 20mm thick over including cutting the granite slab to the required size where ever necessary,nosing the edges to the required shape including cost of granite slab, polishing laying finishing etc all complete in all respects and as directed by the departmental officers. (Measurement will be taken including bearing also. The quality and color of Granite slab shall be got approved by the Competant Authority before fixing.)			Sq.M	5.00		-
11	MASONRY WORK						
11.1	Provision-Brick work in cement mortar 1:5(One of cement and Five of sand) using chamber burnt Second class Table moulded stock bricks of size 9"x 4 1/2"x 3" having minimum average crushing strength of 50Kg/sqcm for super structure in the following floors including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings..			Cu.M	10.00		-

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
11.2	Brick work in following Cement Mortar using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.			Cu.M	32.10		-
11.3	Brick partition walls of 11cm thickness using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.(Hoop iron reinforcement will be measured and paid for separately)			Sq.M	90.93		-
12 PLASTERING WORK							
12.1	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.			Sq.M	560.00		-
12.2	Provision for retrofit work for sunshade or any ceiling surface - Special Plastering Cement Mortar 1:3 (One cement and Three sand) with water proof compound for a thickness of 12mm in all floors including curing etc.(mixed with water Proof Compound 2 Kg/10SqM along with approved WPC coats) complete complying with standard specification and as directed by the departmental officers.			Sq.M	200.00		-
13 PAINTING WORK							

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
13.1	Painting two coats of newly plastered wall surface with ready mixed weather proof emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	900.00		-
13.2	Painting two coats of newly plastered wall surface with ready mixed emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	450.00		-
13.3	Painting over any steel/Iron work with two coats of best quality approved 1st class synthetic ready mixed enamel paint of approved quality etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	320.00		-
13.4	Painting over any wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all respects complying with relevant standard specification including any existing painting scrapping and removal of existing paint, etc. and the whole works as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	80.59		-
14	ROOFING WORK						

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
14.1	Supply- fabrication- erection of MS Tubular sections along with necessary MS plates, cleats, bolts & nuts with good welding. The M.S structure will be applied with one coat of zinc chromate primer and finished paint. Supply – Laying – Fixing of pre coated plain / Tile profile sheet as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	180		-
14.2	Supply-fabrication and erection of Steel structural columns at required position along with base plate and required welded and bolt-nut joints as per approved design and relevant drawings. The whole sections will be applied with one coat of zinc chromate primer and finished two coat of paint including conveyance, loading, unloading, handling with required equipments and tools, etc. all complete complying with relevant standard specification and by approved design and as directed by the departmental officers.			Kg	528		-
14.3	UPVC GUTTER - Supply- fabrication- erection of uPVC Gutter along with necessary upvc fittings and supported with GI steel clamp, cleats, bolts & nuts, etc. The GI clamps will be applied with one coat of zinc chromate primer and finished paint as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			RM	100		-
14.4	Provision for Operating the crane - Hire and running charges of crane 20T capacity to hold the the existing truss on position/removal			day	5		-
15	STEEL WORK						

Package-02 - Poompuhar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
	Supplying and fixing of in position of Mild steel square section fabricated safety Grills for windows and provision for retrofit works with structural members. The M.S Grills will be applied with one coat of primer and two coat of painting as per approved design. This work includes the cost of material, Labour Charges for fixing Conveyance, Packing Charges, Scaffolding, etc.. complete as per relevant standard specification as directed by the departmental officers.			kg	3576.0		-
16	Rain water Harvesting pit -all complete complying with relevant standard specification and as directed by the departmental officers.			Nos	6.0		
17	Electrical LT, Eiv & Illumination works -all complete complying with relevant standard specification and as directed by the departmental officers.						
18	Plumbing and Sanitation works -all complete complying with relevant standard specification and as directed by the departmental officers.						
19	Fire & Safety Systems works -all complete complying with relevant standard specification and as directed by the departmental officers.						
20	Supply and Fixing of domestic & safety signages -all complete complying with relevant standard specification and as directed by the departmental officers.						
21	Total for the Above works (Sum of Above)						
22	Add Concessional rate of GOODS & SERVICE TAX @ 18% (CGST at 9%+SGST at 9%) for any Government construction contracts.		18%				

Package-02 - Poompohar Brass Artware Production Centre, Madurai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompohar Production Unit at Madurai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
23	Grand Total Including GST@18% (Sum of Sl.no.21 to Sl.no.22)						
	Rupees in Words-						

PROJECT: PROPOSED PHE BOQ FOR PRODUCTION UNIT AT MADURAI							
SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
I	PLUMBING AND SANITATION WORKS						
1	Receiving, Installing, testing and commissioning of white color Indian water closet with dual flush open Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	4				
2	Receiving, Installing, testing and commissioning of white color European water closet with dual flush Concealed Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	2				
3	supply, Fixing, testing & Commissioning of Rectangular type wash basin white color with single lever sensor tap, 32mm dia.CP bottle trap with extension pipe, 32 mm dia. CP waste Coupling, M.S.wall brackets with a pair of SS screws to support the basin, 1no.15mm CP angle valve with 450 mm long CP inlet connection pipe, CP wall flange all of approved etc	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	CP fittings						
3.1	Supplying, fixing, testing and commissioning, White glazed Hindware urinals with SS connection pipe, Spreader with SS bolts and nuts to fix the urinal with all hangers and brackets complete. For Pillar cock:	Nos	3				
4	Supplying, fixing, testing and commissioning, White glazed Hindware urinals with SS connection pipe, Spreader with SS bolts and nuts to fix the urinal with all hangers and brackets complete.	Nos	2				
5	Supply,Fixing, testing and commissioning, White glazed Hindware urinal Divider with SS bolts and nuts to fix and brackets complete	Nos	1				
6	Supplying, installing, testing and commissioning of CP single lever mixer unit comprising of diverter & shower unit / spout, with necessary wall flanges etc., complete	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
7	Collecting fixing, testing and commissioning of CP brass concealed stop cock with adjustable wall flange for master control in toilets.						
	20 mm dia	Nos	2				
8	supply, fixing, testing CP double coat hook fixed on to toilet doors with SS screws complete.	Nos	6				
9	supply, fixing, testing and commissioning of CP 20mm dia 600mm long towel rail with necessary SS screws, CP end clamps etc.complete.	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
10	supply, fixing, testing soap dispenser with metallic bottle and necessary SS screws, etc complete	Nos	2				
11	supply, fixing, testing CP toilet paper holder with SS flap fixed with SS screws etc, complete.	Nos	2				
12	supply, checking, storing & fixing 15 mm. dia exposed angular stop cock with 1/2" outlet with wall flange and all accessories,	Nos	4				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
II	SOIL WASTE VENT AND RAIN WATER PIPES						
13	Supplying, fixing, testing and commissioning of PVC Soil, waste and ventilating pipes (SWR) conforming to IS:13592 /1990 -Type B with rubber ring (conforming to IS : 5382) joints inclusive of all necessary specials like bends, tee, offsets, door bends, junctions, cowls etc., laid under floor /fixed on walls and in pipe shaft with proper pipe support like brackets, hangers, MS grip bolts etc., complete. The support shall be painted with two coats of enamel paint.						
	INTERNAL						
13.1	40 mm for Wash basin drains	Rmt	6				
13.2	50 mm for Washing M/c & Sink	Rmt	12				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
13.3	75 mm Waste pipe	Rmt	24				
13.4	110 mm soil pipe	Rmt	12				
	VERTICAL						
13.5	110 mm (Rain water -vertical)	Rmt	30				
13.6	110 mm (soil -vertical)	Rmt	3				

Sl.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
13.7	75 mm (waste -vertical)	Rmt	3				
14	Supplying, installing, testing and commissioning of PVC Floor trap with 110mm dia inlet and 75mm dia. outlet fixed on a bed of cement concrete with 150 x 150mm stainless steel type grating with threaded cover (Heavy duty type) etc., complete. The cost shall include Cockroach Traps.,	Nos	6				
15	Providing and fixing Heavy class S.S. grating with cockroach/mosquito proof S.S. strainer of Chilly or equivalent make, as approved, (incl cockroach trap) including setting in floor with cement mortar to match with floor finish as per requirements	Nos	8				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
III	INTERNAL WATER SUPPLY SYSTEM						
16	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc. with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 and restore the same in original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F 4931 / 724. The solvent used shall be of approved make as recommended by the pipe manufacturer. Rate shall include necessary MS supports, clamps, hanging rods, Grip bolts and painting of all supports with 02 coats of enamel paint etc., complete in all respect.	Rmt	54				
	Cold Water - Internal						
	a) 20 mm dia (I.D)						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
17	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete						
	Riser & Terrace Ring Main						
	a) 25 mm dia (I.D)	Rmt	24				
	b) 32 mm dia (I.D)	Rmt	30				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	c) 40 mm dia (I.D)	Rmt	18				
	d) 50 mm dia (I.D)	Rmt	24				
18	Supplying, installing and testing and commissioning of approved make PN 16 class GM ball valves with necessary unions etc., complete in all respect						
	a) 20 mm dia	Nos	6				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	b) 25 mm dia (Screwed ends)	Nos	2				
	c) 32 mm dia (Screwed ends)	Nos	2				
	d) 40 mm dia (Screwed ends)	Nos	2				
	e) 50 mm dia (Screwed ends)	Nos	2				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
19	Supplying, installing, testing and commissioning approved make pilot operated float valve with 2 Nos. bypass connection lines						
	a) 40mm dia	Nos	1				
20	Providing and fixing GM Air release valve incl 25 to 20 reducer , double acting, of approved make, having 2 chambers with ebonite ball, small and large orifices with isolating stop screw down valve, GM seats, high tensile brass spindle with cap, conforming to standard water works pattern. Flanges as per IS : 15381, flat faced and drilled, complete of the following nominal bore (NB) size:	Nos	1				
21	M.S brackets for the supports of pipes	Kg	20				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
V	EXTERNAL SEWERAGE SYSTEM						
22	Providing and fixing testing and commissioning of PVC pipe for Risers to IS:13592 of SWR quality Type B, for ground floor buried lines, external buried including all fittings like tees, elbows, bends, collars, coupling, brackets, clamps, fasteners, , etc jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste complete. The pipes shall be fixed properly aligned vertical with suitable Galvanized MS pipe clamps. Work to include making necessary holes in the masonry walls etc.. and making good the damaged portions with mortar filling with 1:4 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified.,						
	a)75mm dia	Rmt	18				
	b)110mm dia	Rmt	24				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	c)160mm dia	Rmt	30				
23	Supplying, fixing and testing of PVC Fabricated Gully Trap with top square bodies 300mm x 300mm, set in PCC 1:3:6 bed with RCC chamber and top cover shall be as indicated in the drawings, internal and external plastering 12mm thick in CM1:6 with water proofing compound including, excavating, refilling and ramming ,D.I (heavy duty type 40T) manhole cover with frames Heavy duty etc., complete	Nos	8				
24	Construction of inspection chamber with 230mm best quality approved Table Moulded bricks in CM 1:3 over a bed of 100mm thick PCC 1:4:8, internal walls plastered in CM 1:3 with water Proofing Compound and external wall with CM1:3 with sponge finish, benching and channeling in PCC1:4:8. Supplying and fixing D.I (heavy duty type 40T) manhole cover with frames (Heavy duty) . The quoted rate shall also include necessary excavation and backfilling the area around the inspection chamber with proper compaction. Internal chamber maximum depth not exceeding						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	Soil Network						
	a) 450mm x 450mm (clear internal dimension)	Nos	4				
	b)600x600 internal dimension Depth up to 600mm	Nos	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
25	<p>FOR INJECTION WELL: Earth work - digging the well 4feet dia- 10feet deep for injection well. supply and installation of Reinforced concrete Rings - 3 feet OD & 1 feet Height, 65 MM Thick - 10 no's. supply and installation of Reinforced concrete slab- 3 feet in dia, 75 mm thick, and 25 mm perforated - 8 mm mild steel rods used for reinforcement -1" Perforated - 1no's. supply and installation of Reinforced concrete closing slab - 3 feet in dia OD, 75 mm thick, 8 mm mild steel rods used for reinforcement with 600mm x 600mm Square FRP/Plastic manhole cover - 1no's. supply and installation of MS grating - 6*6inch square - 2no's Filtration Media Installation For Injection Well Unit: 40 mm crushed stones - 0.12cum, 20 mm crushed stones - 0.12cum, Brick Bats - 0.12cum, Mixture of Brick Bats and Gravels for filling the gap between excavated earth and RCC rings- 1.6cum Shifting of excavated earth to the approved / authorized dumping yard as directed by the authorities / Site in charge</p>	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
VI	EXTERNAL WATER SUPPLY						
26	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	a) 32 mm dia (I.D)	Rmt	24				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	b) 40 mm dia (I.D)	Rmt	18				
27	Supplying, installing, testing and commissioning butterfly valves with standard lever conforming to IS standard 13039 with necessary flanges, nuts and bolts etc., complete.						
	a) 100 mm dia	Nos	2				
28	Supplying and fixing in position approved make PN 16 non-return valve conforming to IS 778 with unions etc., complete.						
	a) 32 mm dia	Nos	2				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	b) 40mm dia	Nos	1				
29	Supplying and fixing in position approved make pot / Y - strainer complete conforming to IS standards etc., complete.						
	a) 50 mm dia	Nos	1				
30	Supplying, installing, testing and commissioning of factory made double layer white water tank with lid.Erection of the connecting pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.(Sintex or any Eqvnt.)						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
	a)per Litre for above spec.	per litre	1				
	b) for 500Litre	Nos	1				
	c) for 1000Litre - Black colour	Nos	1				

Sl.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
				SUB TOTAL			
				GRAND TOTAL FOR SUPPLY & ERECTION			

ELECTRICAL & ELV BOQ FOR PRODUCTION UNIT AT MADURAI

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
				1.0	POINT WIRING:		
1.1	Supply, installation, testing and commissioning of point wiring using 3 runs of 1.5 sqmm FRLS (P, N & E) PVC insulated, unsheathed,multistrand copper conductor wires in 20mm dia PVC conduit. The rate shall include wall cutting, plastering, supply of wires, conduits, junction box, termination accessories, 16G metal switch boxes modular type one/two way 6A switch/sockets,suitable front plate as required.						
a)	Primary Point(one way)	Point	30				
b)	secondary Point	Point	20				
c)	Mirror light point (one way)	Point	4				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
d)	Two way point light point	Point	4				
e)	one way fan point with 1M electronic regulator	Point	20				
f)	Exhaust fan point including 6A socket near fan	Point	7				
g)	Call bell point with bell push	Point	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h)	Flexible spring type cable arrangement LED light point with dimmer control	Point	6				
2.0	PRIMARY CIRCUIT WIRING:						
2.1	Supply, Wiring testing & commissioning of 2R 2.5 with 1R 1.5sqmm PVC insulated copper conductor 1100 volts grade FRLS wire in suitable concealed heavy duty PVC conduit with all accessories as required for lighting & small power circuit mains from DB to switch/socket board.	Mtrs	150				
2.2	Supply, Wiring testing & commissioning of 2R 4.0 with 1R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for 16A power circuit mains from DB to socket.	Mtrs	150				
2.3	Supply, Wiring testing & commissioning of 4R 6.0 with 2R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for DB incomer.	Mtrs	50				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
3.0	POWER OUTLETS:						
3.1	Supply, fixing, testing & commissioning of 6A 5pin modular type socket & switch located at switch box/location with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	12				
3.2	Supply, fixing, testing & commissioning of 16A 5pin modular type dependent socket & switch with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.3	Supply, fixing, testing & commissioning of 6/16A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.4	Supply, fixing, testing & commissioning of 20A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	12				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
4.0	DISTRIBUTION BOARDS:						
4.1	Provision for -Supply, installation, testing & commissioning of 8way TPN 7segment double door MCB Distribution boards (IP42) for Lighting distribution as per the technical specification & comprising of following.	set	1				
	Incomer						
	1No 40A 4P MCB						
	Phase control						
	3Nos 40A, 30mA DP RCCB						
	Outgoings						
	24Nos 6-20A SP MCB						
4.2	Provision for -Supply, installation, testing & commissioning of 12way TPN 7segment double door MCB Distribution boards (IP42) for power distribution as per the technical specification & comprising of following.	set	1				
	Incomer						
	1No 63A 4P MCB						
	Phase control						
	3Nos 63A, 100mA DP RCCB						
	Outgoings						
	30Nos 16-20A SP MCB						
4.3	Provision for -Supply, installation, testing & commissioning of 8way SPN double door horizontal MCB Distribution boards (IP42) as per the technical specification & comprising of following.	set	1				
	Incomer						
	1No 25A 30mA DP RCCB						
	Outgoings						
	6Nos 6-10A SP MCB						

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
4.4	Provision for - Shifting, installation, testing & commissioning of existing Distribution boards as per the technical specification	set	2	0		0	
4.5	Provision for existing machineries / industrial / heavy loaded equipments,Diesel generators,etc.. to be removed technically and safely shifted & stored inside the production unit. After construction activities are completed; these machines will be replaced at required position again and those will be technically installed and commissioned with required electrical industrial wiring,controls,etc..	Set	5	0		0	
5.0	CABLE & TERMINATION:						
5.1	Supply, laying, testing & commissioning of following cables with termination using suitable glands & lugs.						
a	4Cx25sqmm A2XFY cable	Mtrs	50				
	Termination for above cable	Ends	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
b	4Cx16sqmm A2XFY cable	Mtrs	50				
	Termination for above cable	Ends	4				
6	Luminaires						
6.1	Supply, Installation of the following LED light fixtures & fans with necessary accessories such as fasteners, downrods, M.S.pipes & all accessories as required at site.						
a	20W LED tube light	Set	30				
b	Water proof Wall Mounted fancy 12 W LED light	Set	4				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
c	LED-Picture light/ Mirror light (1X8W)	Set	4				
d	LED-Outdoor water proof down light/ focus light (1X8W)	Set	2				
e	1200mm dia Ceiling Fan	Set	12				
f	Heavy duty industrial exhaust Fan	Set	4				
g	300mm dia Exhaust Fan	Set	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h	200mm dia Exhaust Fan	Set	2				
i	Wall Mounted fan	Set	2				
j	40W street light with wall bracket	Set	6				
k	bulkhead fitting	Set	4				
l	Buzzer	Set	2				
m	Flexible spring type cable arrangement LED light point with dimmer control	Nos	10				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
7.0	COMMUNICATION CABLE & CONDUITS:						
7.1	Supply and laying following sizes of Heavy duty PVC conduits concealed in the ceiling, floors, wall etc with all accessories like bends, couplers, pullwire etc including cutting and filling the chases						
a	40mm Dia	Mtr	60				
b	25mm Dia	Mtr	60				
c	19mm Dia	Mtr	30				
7.2	Supply, laying of CAT6 cable for LAN communication.	Mtr	20				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
7.3	Supply and installation of modular flush mounted RJ45 data Outlet with front plate 1.2mm thick GI Box complete with all accessories as required.	Nos	4				
7.40	Supply, laying of twin core twisted pair cable for speaker	Mtr	6				
8.0	EARTHING						
8.1	Supply,Installation, testing & commissioning of 40mm dia chemical Earth electrode with flange of 3m length buried in ground as per IS The rates shall include excavation of the pit, construction of masonry chamber,providing heavy duty concrete cast slab , painting & making etc.,	Set	1				
8.2	Supply, Wiring testing & commissioning of 2R 6.0 sqmm PVC insulated copper conductor in suitable concealed heavy duty PVC conduit with all accessories as required for main earthing	mtr	50				
8.3	provision for the Electrical repair work to refabriching the existing electrical conduit or fixtures/ items - labour charges for fixing,modifications as per standard specifications etc., complete in all respects						

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
	Electrician - class 1	Nos	15	0		0	
	Electrician - class 2	Nos	12	0		0	
	SUB TOTAL						
	GRAND TOTAL						

FIRE & SAFETY BOQ FOR PRODUCTION UNIT,MADURAI

SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	FIRE & SAFETY SYSTEM				
A	P.A. SYSTEM				
1.0	Supplying, installing, testing and commissioning of package type 6 zone selector 16 Bit micro controller technology P.A. console/call zone station and interfacing with EPABX/prerecorded Message Manager with connected accessories-complete.	1	No		
2.0	Supplying, installing, testing and commissioning of solid state Amplifier of 50W RMS out put in rack with BT & USB connectivity, including necessary control wires, jacks etc. complete.	1	No		
3.0	Supplying, installing, testing and commissioning of 6W wall mounted type speakers with mounting fixtures	8	Nos		
4.0	Supplying and laying of 2 core of 1 sq. mm, Annealed tin copper conductor, PVC Sheathed armoured FRLS Cable.	94	Rmt		
5.0	Supplying, installing, testing and commissioning of intergrated smoke detector cum fire alarm hooter including necessary control wires provisions,etc. complete.	6	Nos		
6.0	Supplying, installing, testing and commissioning of 220v single phase battery cum raw power operated steel body hooter including necessary control wires and manual switch,etc. complete.	1	Nos		

SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
Sub Total for PA system					
B	FIRE EXTINGUISHERS				
1.0	Supplying, installing and commissioning Portable Fire extinguishers of following type & capacity.				
a	ABC powder type fire extinguisher of 6 Kgs. Capacity, Mono Ammonium Phosphate Powder 90, Stored pressure type, Pressure Gauge, Controllable discharge mechanism with Hose & Nozzle etc. Complete. Confirming to IS:15683	5	Nos.		
b	Carbon-di- oxide type fire extinguisher of 4.5 kgs. Capacity, CO2 gas filled in brand new seamless cylinder with control discharge mechanism fitted with bend and horn etc. complete, confirming to IS: 15683.	5	Nos.		
2.0	Supplying, installing and commissioning of 03 nos fire bucket sand along with holder stand made with mild steel and painted in approved red colour..Complete	3	Nos.		
Sub Total for Fire extinguishers					

SIGNAGE BOQ FOR PRODUCTION UNIT,MADURAI

SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	SIGNAGES				
1.0	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut. PVC non-reflective self adhesive vinyle painted foam board along with directional FR Reflective tape, complete with mirror fasteners.				
a.	Signages with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm * 30cm and shall be fixed at the height of 2mts, from finished floor near Exit.	1	Nos.		
2.0	Floor & room indentification signage (i.e, Drilling lathe,Store,etc.,) at each stair enclosure on every floor, indicating the floor number in words,work shops,toilets,etc.. lettering size shall be 7.5cm with contrasting colour from back ground. Size shall be 15cm * 60cm.	6	Nos.		
3.0	Providing and fixing in position the signage of " Incase of fire do use this " Size 8" x 8"	1	Nos.		
4.0	Providing and fixing in position the signage of " Fire Extinguisher " to be pasted immediately above the every extinguisher. Size 4" x 4"	10	Nos.		
5.0	Providing and installing in position - the following type of sign boards made out of 3mm thick acrylic sign letters with a maximum height of 450mm required form/shape ss frames and inbuilt LED lights..Complete	2.0	Sq.M		

SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
6.0	Providing and installing in position - the following type of sign boards made out of 1mm thick printed with aluminium casing with end cap cum fixing supports,screws,labour,etc..Complete	4.0	Nos.		
7.0	Providing and installing in position - the following type of sign boards made out of 3mm thick ACP sign board with fixing supports and MS frames,screws,labour,etc..Complete	1.3	Sq.M		
TOTAL FOR SIGNAGE					

ALL DIMENSIONS ARE IN METERS.

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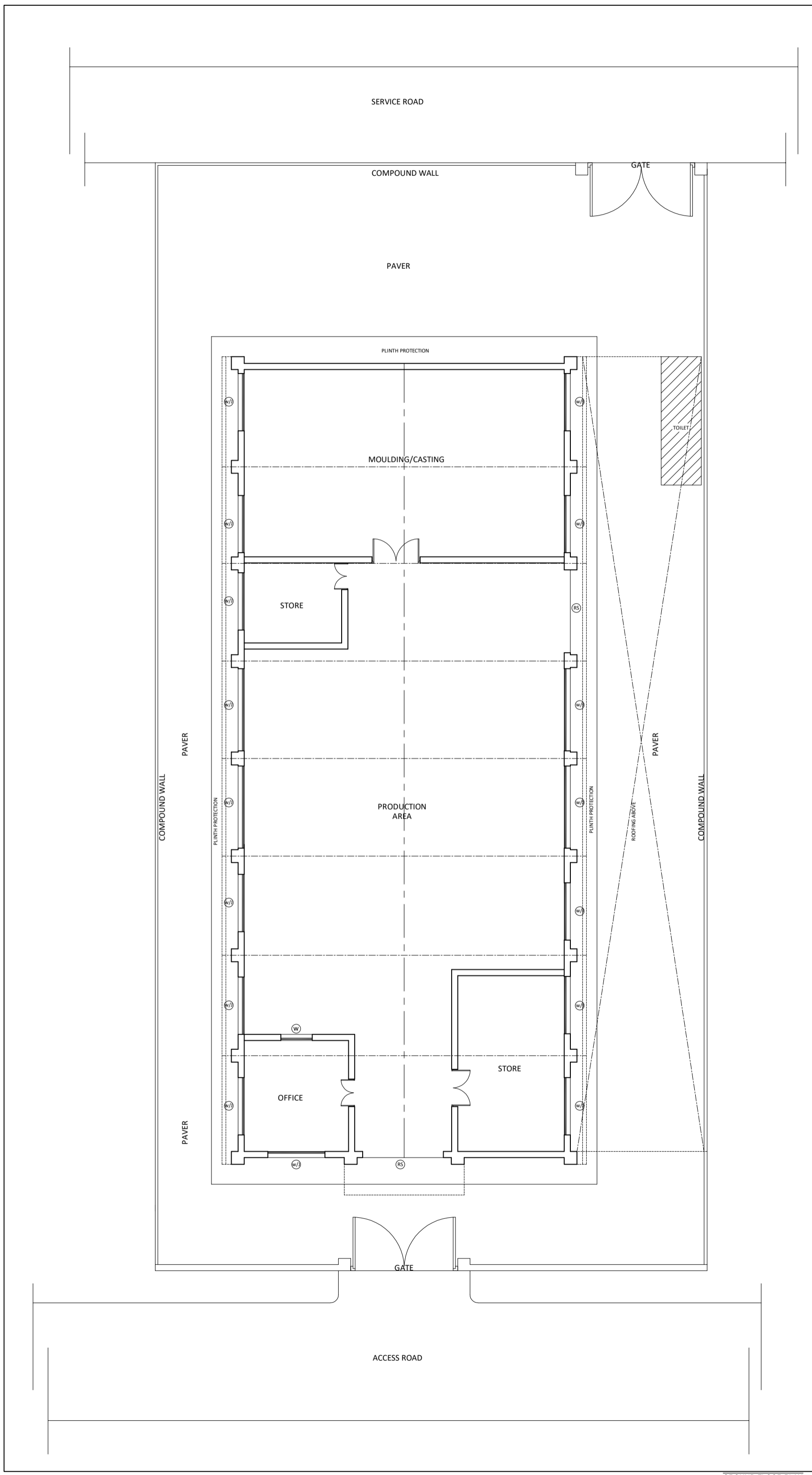
PROJECT TITLE
 PROPOSED / RETROFITTING WORK - PRODUCTION UNIT AT MADURAI FOR POOMPUHAR.

DRAWING TITLE
 PRODUCTION UNIT GROUND FLOOR / SITE PLAN

DATE: 06.12.2021 SCALE: NTS

DRAWING NO: RC/POOM/21/22/PL/SM-MDU-01

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GROUND FLOOR PLAN

Package 03 - Poempuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poempuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
1	CLEARING THE SITE						
	Clearing scrub jungle-as per the the direction of the departmental officers in all respects-Complete. As per the the direction of the departmental officers in all respects-Complete.			Sq.M	2000.00		-
2	Demolition work						
	Demolition of existing concrete members,masonry walls with necessary safety and precautionary methodology cum practice at site.The debries to be dumped and removed-as per the the direction of the departmental officers in all respects-Complete.			Sq.M	18.00		-
3	EARTHWORK EXCAVATION						
	Earthwork excavation in sand silt or other loose soil wet sand or silt,light black cotton,sandy loam soil and to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary,depositing the surplus earth in places shown clearing and levelling the site with an initial lead of 10 metre and lifts as specified hereunder(including refilling) etc.,all complete in all respects complying with relevant standard specification.Narrow Cutting			Cu.M	50.23		-
4	FILLING & COMPACTING						
4.1	SOIL FILLING: Filling in foundation and basement with filling excavated soil in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	50.23		-
4.2	Gravel Filling: Supplying and filling basement with gravel from 10 km in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	180.00		-

Package 03 - Poompahar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
4.3	SAND FILLING : Supplying and filling in foundation and basement with filling sand in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications including cost of filling sand			Cu.M	71.02		-
5 PLAIN CEMENT CONCRETE							
5.1	PLAIN CEMENT CONCRETE 1:5:10 - Cement concrete1:5:10(One of cement,five of sand and ten of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	37.82		-
5.2	PLAIN CEMENT CONCRETE 1:2:4 - Cement concrete1:2:4(One of cement,two of sand and four of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	10.37		-
5.3	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification			Sq.M	174.24		-
6 SHUTTERING WORK							

Package 03 - Poompuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals,plinth beams,grade beams,staircase,steps,etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			Sq.M	74.99		-
7	RCC WORK without Reinforcement						
	Cement Concrete 1 : 1 1/2 : 3 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement,for all R.C.C works namely foundation,Tee,rectangular beams,lintel,parapet cum drops,waist and landing slabs,canopy,fin projects,sunshades>window boxing slab, footing, pedastal and other similar works excluding the cost of reinforcement and fabrication charges,centering and shuttering but including laying,vibrating, finishing,curing,etc..all complete complying with relevant standard.			Cu.M	50.00		-
8	REINFORCEMENT FOR RCC WORK						
	Supplying, fabricating and placing in position of Mild steel/Ribbed Tor steel TMT Rod - Fe 500 for reinforcement for all RCC works in all floors including the cost of binding wire, bending, tying,Welding etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (Contractor has to make his own arrangements for the supply of steel and binding wire)			QTL	50.78		-
9	PRE CAST CONCRETE WORK						

Package 03 - Poompuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9.1	PRE CAST CONCRETE KERB : Manufacturing, supplying and fixing in position plain cement concrete precast kerb slab of size 600mm x 500mm x 100mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification and as directed by the departmental officers.			Sq.M	28.50		-
9.2	PRE CAST CONCRETE JALLY : Manufacturing, supplying and fixing in position reinforced cement concrete jally with 50mm thickness in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting, finishing, curing, fixing and pointing with CM 1:3 (One Cement and Three Sand),etc., complete...complying with standard specification and as directed by the departmental officers.			Sq.M	3.24		-
9.3	PRE CAST CONCRETE VERTICAL SUPPORT WITH PRECAST SLAB for Compound Wall : Manufacturing, supplying and fixing in position minimum of 35mm thickness reinforced cement concrete slab with vertical support minimum size of 90mmX 90mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting, finishing, curing, fixing and pointing with CM 1:3 (One Cement and Three Sand),etc., complete... complying with standard specification and as directed by the departmental officers.			Sq.M	108.00		-
10 JOINERY WORK							
10.1	Doors: Supply and fixing of Pre laminated wood plastic composite doors - WPC shutter Panel of 28mm thick with WPC door frame at position as per the approved drawings and as directed by the departmental officers - which includes handle,hinges and locking facilities,other accessories,Labour Charges for fixing, Conveyance,Painting,etc-complete in all respects complying with relevant standard specification.			Sq.M	4.20		-

Package 03 - Poempuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poempuhar Production Unit at Vagaikulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10.2	FRP door Shutter with FRP door frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and hollow core frames of 3m wall thickness for styles and rails etc., of sizes specified by the departmental officers.			Sq.M	11.76		-
10.3	Supply and installation of 5 x Tier locker as per specification given below.Material- HPL board;Thickness of side top bottom and door:9mm; Thickness of inside divider & rear sides: 3mm;Overall height : 2000mm (Including tile skirting of 150mm);Size: 450mm (W) x 370mm (H) x 450mm (D)- Height of column- 1850mm;Accessories: ss Hinges, aluminium Channels, lock &keys , Screw all complete...as per the technical design and as directed by the departmental engineers.- Provision for Cloak room facility for artisan's			Nos	10.00		-
10.4	SUPPLY- provision for the supply of approved 5.5mm glass including transportation,packing and handling during transportation			Sq.M	5.00		-
10.5	SUPPLY- provision for the supply of approved 4mm glass including transportation,packing and handling during transportation			Sq.M	5.00		-
10.6	provision for the wooden carpentry work to refabriching existing joinery items - labour charges for fixing hold fasts,glass fixing,modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
	Carpenter - class 1			Nos	5.00		-
	Carpenter - class 2			Nos	5.00		-

Package 03 - Poempuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poempuhar Production Unit at Vagaikulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
11 FLOORING WORK							
11.1	Ellis pattern Flooring-20MM thickness - Finishing the flooring top with Cement Mortar 1:4 (No Sand) using hard granite chips of 3mm to 10mm size-complete complying with standard specification and as directed by the departmental officers.			Sq.M	330.00		-
11.2	Paver Block -Supplying and laying of 60MM THICKNESS M-30 GRADE RUBBER MOULDED PAVER BLOCK paved over sand base of 120MM complete complying with standard specification and as directed by the departmental officers.			Sq.M	10.00		-
11.3	Supplying and fixing in position of matt finish Colour Vitrified Floor tiles (heavy duty / industrial quality)of any size of approved special quality minimum of 09mm thickness laid in cement mortar 1:3(One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.			Sq.M	22.14		-
11.4	Supplying and fixing in position of colour Antiskid Ceramic floor tiles of size 300mmx300mm of approved special quality of minimum of 6mm thickness laid in cement mortar 1:3 (One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.Note:(The colour and quality shall be approved from the Competant Authority before use only one particular size of ceramic wall tiles to be used for one building)			Sq.M	35.00		-

Package 03 - Poompuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
11.5	Wall tiles- Supplying and fixing in position of Colour glazed wall tiles of any size 8mm thickness laid in cement mortar 1:2(One of cement and two of sand) 10mm thick for wall facing / dadoing ,skirting over the plastered surfaces including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers. Note:(The colour make and quality shall be approved from the Competant Authority before use)			Sq.M	135.00		-
11.6	Supplying and fixing of flame or Matte or Leather finished (RED or GREY) Granite slab of 18 mm to 20 mm thick of approved quality laid in CM 1:3 (one of cement and three of sand) 20mm thick over including cutting the granite slab to the required size where ever necessary,nosing the edges to the required shape including cost of granite slab, polishing laying finishing etc all complete in all respects and as directed by the departmental officers. (Measurement will be taken including bearing also. The quality and color of Granite slab shall be got approved by the Competant Authority before fixing.)			Sq.M	1.00		-
12	MASONRY WORK						
12.1	Provision-Brick work in cement mortar 1:5(One of cement and Five of sand) using chamber burnt Second class Table moulded stock bricks of size 9"x 4 1/2"x 3" having minimum average crushing strength of 50Kg/sqcm for super structure in the following floors including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings..			Cu.M	10.00		-
12.2	Brick work in following Cement Mortar using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.			Cu.M	38.03		-

Package 03 - Poompuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
12.3	Brick partition walls of 11cm thickness using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.(Hoop iron reinforcement will be measured and paid for separately)			Sq.M	110.10		-
13	PLASTERING WORK						
13.1	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.			Sq.M	410.00		-
13.2	Provision for retrofit work for sunshade or any ceiling surface - Special Plastering Cement Mortar 1:3 (One cement and Three sand) with water proof compound for a thickness of 12mm in all floors including curing etc.(mixed with water Proof Compound 2 Kg/10Sqm along with approved WPC coats) complete complying with standard specification and as directed by the departmental officers.			Sq.M	100.00		-
14	PAINTING WORK						
14.1	Painting two coats of newly plastered wall surface with ready mixed weather proof emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	100.00		-
14.2	Painting two coats of newly plastered wall surface with ready mixed emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	450.00		-

Package 03 - Poompuhar Brass & Bell Metal Production Centre,VagaiKulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
14.3	Painting over any steel/Iron work with two coats of best quality approved 1st class synthetic ready mixed enamel paint of approved quality etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	560.00		-
14.4	Painting over any wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all respects complying with relevant standard specification including any existing painting scrapping and removal of existing paint,etc..and the whole works as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	80.16		-
15	ROOFING WORK						
15.1	Supply- fabrication- erection of MS Tubular sections along with necessary MS plates, cleats, bolts & nuts with good welding. The M.S structure will be applied with one coat of zinc chromate primer and finished paint. Supply – Laying – Fixing of pre coated plain / Tile profile sheet as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	50.00		-
15.2	Supplying and fixing AC sheet roofing with 6mm thick asbestos cement sheets of fully corrugated (grey colour) of approved quality by drilling holes (and not by punching) with necessary 'J' / 'U' bolts and nuts of 8mm dia of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification and as directed.			Sq.M	5.00		
15.3	Weld mesh work-Supply and fixing of weld mesh with specified grid size welded over MS angle frames with a size of 40X40MM at position as per the approved drawings and as directed by the departmental officers - which includes standard welding and any opening & locking facilities, Labour Charges for fixing, Conveyance, Painting, etc-complete in all respects complying with relevant standard specification.			Kg	60.00		

Package 03 - Poimpuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poimpuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
16	BoreWell Work						
16.1	Borewell-Drilling of 4 1/2" diameter borewell by using Calyx Drill including transporting charges and insertion of casing pipes (Including cost of casing pipe)-all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			RM	50		
16.2	Supply and delivery of clear water vertical wet type submersible pump 40LPM x 50M - suitable for 100mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS9283 /1995 and as amended there after, suitable for operation in AC three phase 415 V+/- 10 %, 50 HZ +/- 5 % --all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			No	1		
16.3	Supply and delivery of Star-Delta starter confirming to IS 13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/ Three Phase/50HZ (+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter (65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Miniature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating,Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor and timer - for 10Hp motar - all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			Each	1		

Package 03 - Poempuhar Brass & Bell Metal Production Centre,Vagaikulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poempuhar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
16.4	Labour charges for the erection of submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days. - Above 5.00 HP to 10.00 HP			Each	1		
16.5	Rate for flushing of borewell of 6" dia requiring less than 4 hours operation using drill rods/ hose with required size of pipes for various capacity compressor including transportation, labour, and fuel charges for compressors -all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			1 hour (or) Part there of	3.00		
17	Open well Silt removal work						
17.1	Well Diver for removing silt - 1 st Class			Nos	3.00		
17.2	Well Diver for removing silt - 2nd Class			Nos	3.00		
18	Rain water Harvesting pit -all complete complying with relevant standard specification and as directed by the departmental officers.			Nos	2.00		
19	Electrical LT,Elv & Illumination works -all complete complying with relevant standard specification and as directed by the departmental officers.						

Package 03 - Poompohar Brass & Bell Metal Production Centre,VagaiKulam

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompohar Production Unit at VagaiKulam, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
20	Plumbing and Sanitation works -all complete complying with relevant standard specification and as directed by the departmental officers.						
21	Fire & Safety Systems works -all complete complying with relevant standard specification and as directed by the departmental officers.						
22	Supply and Fixing of domestic & safety signages -all complete complying with relevant standard specification and as directed by the departmental officers.						
23	Total for the Above works (Sum of Above)						
24	Add Concessional rate of GOODS & SERVICE TAX @ 18% (CGST at 9%+SGST at 9%) for any Government construction contracts.			18%			
25	Grand Total Including GST@18% (Sum of Sl.no.23 to Sl.no.24)						
	Rupees in Words-						

PROJECT: PROPOSED PHE BOQ FOR PRODUCTION UNIT AT VAGAIKULAM							
SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
SUBJECT: PLUMBING AND SANITATION WORKS							
1	Receiving, Installing, testing and commissioning of white color Indian water closet with dual flush open Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	2				
2	Receiving, Installing, testing and commissioning of white color European water closet with dual flush Concealed Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	1				
3	supply, Fixing, testing & Commissioning of Rectangular type wash basin white color with single lever sensor tap, 32mm dia.CP bottle trap with extension pipe, 32 mm dia. CP waste Coupling, M.S.wall brackets with a pair of SS screws to support the basin, 1no.15mm CP angle valve with 450 mm long CP inlet connection pipe, CP wall flange all of approved etc.,	Nos	2				
4	CP fittings						
4.1	Pillar cock	Nos	2				
5	Supplying, installing, testing and commissioning of CP single lever mixer unit comprising of diverter & shower unit / spout, with necessary wall flanges etc., complete	Nos	1				

Sl.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
6	Supply,Collecting, fixing, testing and commissioning of CP brass Bib cock with adjustable wall flange for master control in toilets.						
	20 mm dia	Nos	3				
7	supply, checking, storing & fixing 15 mm. dia exposed angular stop cock with 1/2" outlet with wall flange and all accessories,	Nos	3				
8	Supplying, fixing, testing and commissioning of PVC Soil, waste and ventilating pipes (SWR) conforming to IS:13592 /1990 -Type B with rubber ring (conforming to IS : 5382) joints inclusive of all necessary specials like bends, tee, offsets, door bends, junctions, cowls etc., laid under floor /fixed on walls and in pipe shaft with proper pipe support like brackets, hangers, MS grip bolts etc., complete. The support shall be painted with two coats of enamel paint.						
8.1	40 mm for Wash basin drains	Rmt	6				
8.2	50 mm for Washing M/c & Sink	Rmt	3				
8.3	75 mm Waste pipe	Rmt	6				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
8.4	110 mm soil pipe	Rmt	6				
9	Supplying, installing, testing and commissioning of PVC Floor trap with 110mm dia inlet and 75mm dia. outlet fixed on a bed of cement concrete with 150 x 150mm stainless steel type grating with threaded cover (Heavy duty type) etc., complete.	Nos	1				
10	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc. with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement marmor 1:1 and restore the same in original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724. The solvent used shall be of approved make as recommended by the pipe manufacturer. Rate shall include necessary MS supports, clamps, hanging rods, Grip bolts and painting of all supports with 02 coats of enamel paint etc., complete in all respect.						
10.1	20 mm dia	Rmt	6				

Sl.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
10.2	32 mm dia	Rmt	4				
11	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554. All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	25 mm dia (I.D)	Rmt	6				
12	Supplying, installing and testing and commissioning of approved make PN 16 class GM ball valves with necessary unions etc., complete in all respect.						
	a) 20 mm dia	Nos	4				
	b) 25 mm dia (Screwed ends)	Nos	2				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
13	M.S brackets for the supports of pipes	Kg	12				
14	Providing and fixing testing and commissioning of PVC pipe for Risers to IS:13592 of SWR quality Type B, for ground floor buried lines, external buried including all fittings like tees, elbows, bends, collars, coupling, brackets, clamps, fasteners, , etc jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste complete. The pipes shall be fixed properly aligned vertical with suitable Galvanized MS pipe clamps. Work to include making necessary holes in the masonry walls etc.. and making good the damaged portions with mortar filling with 1:4 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified. ,						
	75mm dia	Rmt	3				
	110mm dia	Rmt	3				
15	Provision for Supply- fabrication- erection of Chainlink fencing near the openwell and it surrounding with 7' Height 3.5"x3.5" C/s Stone support,ctc between the stone supports will be 3M and factory made 5' height chainlink fencing along with barbed wire including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.	Rmt	60				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
16	Provision for Supply and erection of 3HP Submersible pump with existing pipeline at openwell including conveyance, loading unloading,labour, etc. all complete complying with relevant standard specification and as directed by the departmental officers.	Set	1				
				TOTAL -Sum of Above items			

ELECTRICAL & ELV BOQ FOR PRODUCTION UNIT AT VAGAIKULAM

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
1.0	POINT WIRING:						
1.1	Supply, installation, testing and commissioning of point wiring using 3 runs of 1.5 sqmm FRLS (P, N & E) PVC insulated, unsheathed,multistrand copper conductor wires in 20mm dia PVC conduit. The rate shall include wall cutting, plastering, supply of wires, conduits, junction box, termination accessories, 16G metal switch boxes modular type one/two way 6A switch/sockets,suitable front plate as required.						
a)	Primary Point(one way)	Point	15				
b)	secondary Point	Point	10				
c)	Mirror light point (one way)	Point	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
d)	Two way point light point	Point	2				
e)	one way fan point with 1M electronic regulator	Point	8				
f)	Exhaust fan point including 6A socket near fan	Point	3				
g)	Call bell point with bell push	Point	1				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h)	Flexible spring type cable arrangement LED light point with dimmer control	Point	4				
2.0	PRIMARY CIRCUIT WIRING:						
2.1	Supply, Wiring testing & commissioning of 2R 2.5 with 1R 1.5sqmm PVC insulated copper conductor 1100 volts grade FRLS wire in suitable concealed heavy duty PVC conduit with all accessories as required for lighting & small power circuit mains from DB to switch/socket board.	Mtrs	30				
2.2	Supply, Wiring testing & commissioning of 2R 4.0 with 1R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for 16A power circuit mains from DB to socket.	Mtrs	30				
2.3	Supply, Wiring testing & commissioning of 4R 6.0 with 2R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for DB incomer.	Mtrs	30				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
3.0	POWER OUTLETS:						
3.1	Supply, fixing, testing & commissioning of 6A 5pin modular type socket & switch located at switch box/location with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.2	Supply, fixing, testing & commissioning of 16A 5pin modular type dependent socket & switch with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.3	Supply, fixing, testing & commissioning of 6/16A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.4	Supply, fixing, testing & commissioning of 20A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	6				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
4.0	DISTRIBUTION BOARDS:						
4.1	Provision for - Shifting, installation, testing & commissioning of existing Distribution boards as per the technical specification	set	1	0		0	
4.2	Provision for existing machineries / industrial / heavy loaded equipments, Diesel generators, etc.. to be removed technically and safely shifted & stored inside the production unit. After construction activities are completed; these machines will be replaced at required position again and those will be technically installed and commissioned with required electrical industrial wiring, controls, etc..	Set	3	0		0	
5.0	CABLE & TERMINATION:						
5.1	Supply, laying, testing & commissioning of following cables with termination using suitable glands & lugs.						
a	4Cx25sqmm A2XFY cable	Mtrs	10				
	Termination for above cable	Ends	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
b	4Cx16sqmm A2XFY cable	Mtrs	10				
	Termination for above cable	Ends	4				
6	Luminaires						
6.1	Supply, Installation of the following LED light fixtures & fans with necessary accessories such as fasteners, downrods, M.S.pipes & all accessories as required at site.						
a	20W LED tube light	Set	30				
b	Water proof Wall Mounted fancy 12 W LED light	Set	2				

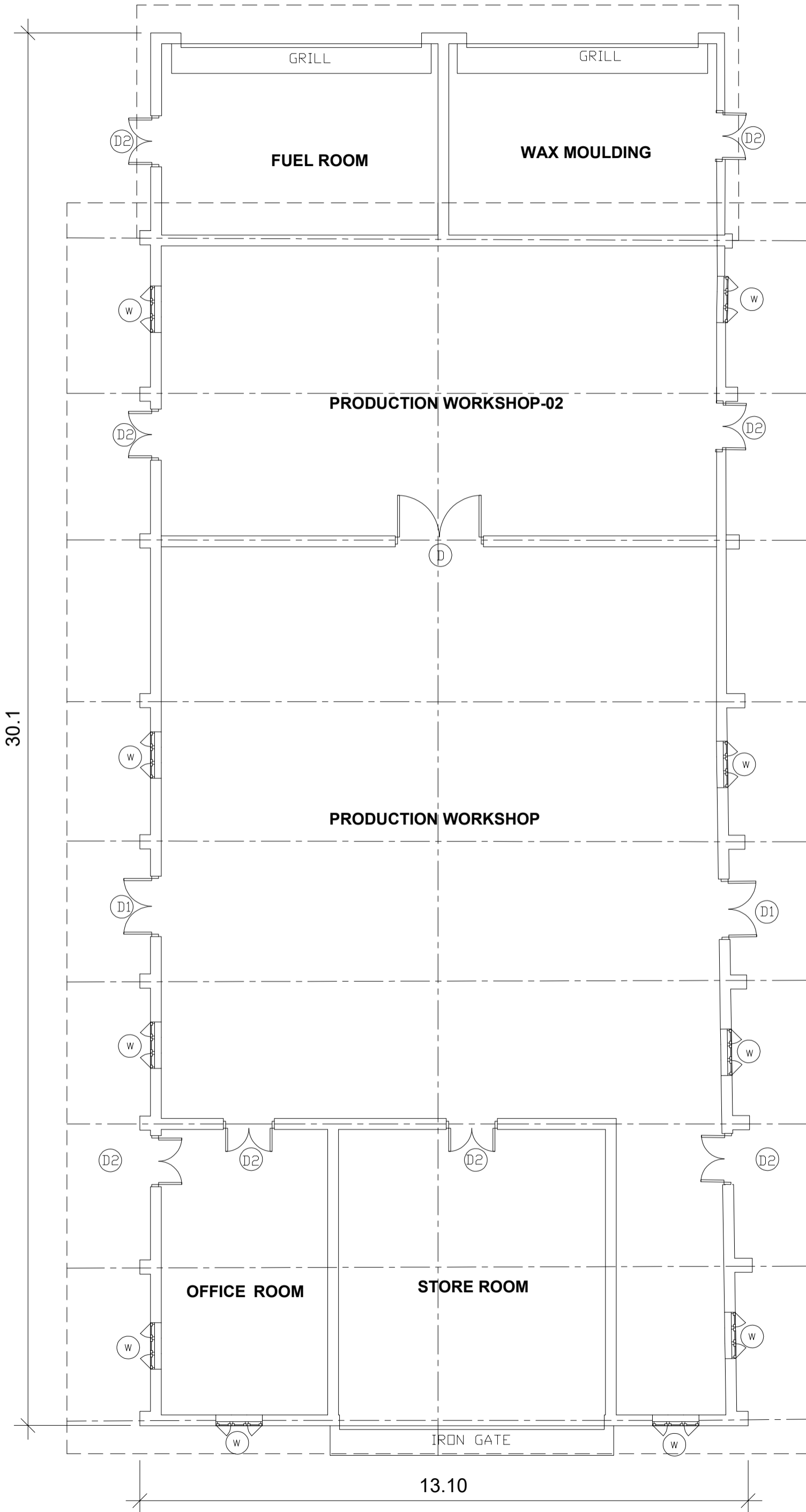
S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
c	LED-Picture light/ Mirror light (1X8W)	Set	2				
d	1200mm dia Ceiling Fan	Set	4				
e	Heavy duty industrial exhaust Fan	Set	2				
f	Wall Mounted fan	Set	1				
g	40W street light with wall bracket	Set	1				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h	bulkhead fitting	Set	3				
i	Buzzer	Set	1				
j	Flexible spring type cable arrangement LED light point with dimmer control	Nos	4				
7.0	COMMUNICATION CABLE & CONDUITS:						
7.1	Supply and laying following sizes of Heavy duty PVC conduits concealed in the ceiling, floors, wall etc with all accessories like bends, couplers, pullwire etc including cutting and filling the chases						
a	40mm Dia	Mtr	60				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
b	25mm Dia	Mtr	60				
c	19mm Dia	Mtr	30				
8.0	EARTHING						
8.1	Supply,Installation, testing & commissioning of 40mm dia chemical Earth electrode with flange of 3m length buried in ground as per IS The rates shall include excavation of the pit, construction of masonry chamber,providing heavy duty concrete cast slab , painting & making etc.,	Set	1				
8.2	Supply, Wiring testing & commissioning of 2R 6.0 sqmm PVC insulated copper conductor in suitable concealed heavy duty PVC conduit with all accessories as required for main earthing	mtr	30				
8.3	provision for the Electrical repair work to refabriching the existing electrical conduit or fixtures/ items - labour charges for fixing,modifications as per standard specifications etc., complete in all respects						
	Electrician - class 1	Nos	4	0		0	

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
	Electrician - class 2	Nos	4	0		0	
	SUB TOTAL						
	GRAND TOTAL						

SIGNAGE BOQ FOR PRODUCTION UNIT,VAGAIKULAM					
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	SIGNAGES				
1.0	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut. PVC non-reflective self adhesive vinyle painted foam board along with directional FR Reflective tape, complete with mirror fasteners.				
a.	Signages with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm * 30cm and shall be fixed at the height of 2mts, from finished floor near Exit.	1	Nos.		
2.0	Floor & room indentification signage (i.e, Drilling lathe,Store,etc..) at each stair enclosure on every floor, indicating the floor number in words,work shops,toilets,etc.. lettering size shall be 7.5cm with contrasting colour from back ground. Size shall be 15cm * 60cm.	4	Nos.		
3.0	Providing and fixing in position the signage of " Incase of fire do use this " Size 8" x 8"	1	Nos.		
4.0	Providing and fixing in position the signage of " Fire Extinguisher " to be pasted immediately above the every extinguisher. Size 4" x 4"	4	Nos.		
5.0	Providing and installing in position - the following type of sign boards made out of flex sign board with fixing supports and MS frames,screws,labour,etc..Complete	3.3	Sq.M		
TOTAL FOR SIGNAGE					



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PROJECT TITLE

PROPOSED / RETROFITTING
WORK - PRODUCTION UNIT
AT VAGAIKULAM FOR
POOMPUHAR.

DRAWING TITLE

PRODUCTION UNIT
GROUND FLOOR PLAN

DATE	SCALE	ORIENTATION
06.12.2021	NTS	 NORTH

DATE	SCALE	ORIENTATION
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DRAWING NO : RC/POOM/2122/PU/VK-DRF-01

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GROUND FLOOR PLAN

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
1	CLEARING THE SITE						
	Clearing scrub jungle-as per the the direction of the departmental officers in all respects-Complete.			Sq.M	223.05		
2	EARTHWORK EXCAVATION						
	Earthwork excavation in sand silt or other loose soil wet sand or silt,light black cotton,sandy loam soil and to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary,depositing the surplus earth in places shown clearing and levelling the site with an initial lead of 10 metre and lifts as specified hereunder(including refilling) etc.,all complete in all respects complying with relevant standard specification.Narrow Cutting			Cu.M	17.01		
3	FILLING & COMPACTING						
3.1	SOIL FILLING: Filling in foundation and basement with filling excavated soil in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	8.86		
3.2	Gravel Filling: Supplying and filling basement with gravel from 10 km in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	18.00		
3.3	SAND FILLING : Supplying and filling in foundation and basement with filling sand in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications including cost of filling sand			Cu.M	120.46		
4	PLAIN CEMENT CONCRETE						

Package 04-Poompohar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompohar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
4.1	PLAIN CEMENT CONCRETE 1:5:10 - Cement concrete1:5:10(One of cement,five of sand and ten of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	8.41		
4.2	PLAIN CEMENT CONCRETE 1:2:4 - Cement concrete1:2:4(One of cement,two of sand and four of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	10.35		
4.3	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification			Sq.M	51.75		
4.4	Water/Damp proof membrane applied over the existing terrace surface with best quality approved water proofing compound conforming to Indian Standard specification as specified by the departmental officers.			Sq.M	127.44		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
4.5	Providing pre-constructional Antitermite treatment including cost of chemicals labour as per standard specifications for preparing the area for treatment by spraying chemicals and other incidental charges etc.. complete. The rates should be for antitermite treatment from the plinth beam and brick masonry with super structure in contact with the back fill earth and at the junction of the walls. The top surface of filled earth for flooring and the soil along with the perimeter of the building by making holes with the crow bar and poured 5% tericide "Chloriprifos" and spraying the same tericide solution on the wooden frames and treating the other periphery of buildings etc., complete in all respects as per IS 6313 (part II) / 1981 and as directed by the departmental officers.			Sq.M	307.44		
5 SHUTTERING WORK							
	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals,plinth beams,grade beams,staircase,steps,etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			Sq.M	62.54		
6 RCC WORK without Reinforcement							
	Cement Concrete 1 : 2 : 4 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement,for all R.C.C works namely foundation,Tee,rectangular beams,lintel,parapet cum drops,waist and landing slabs,canopy,fin projects,sunshades>window boxing slab, footing, pedestal and other similar works excluding the cost of reinforcement and fabrication charges,centering and shuttering but including laying,vibrating, finishing,curing,etc..-all complete complying with relevant standard.			Cu.M	28.02		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
7	REINFORCEMENT FOR RCC WORK						
	Supplying, fabricating and placing in position of Mild steel/Ribbed Tor steel TMT Rod - Fe 500 for reinforcement for all RCC works in all floors including the cost of binding wire, bending, tying,Welding etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (Contractor has to make his own arrangements for the supply of steel and binding wire)			QTL	10.08		
8	PRE CAST CONCRETE WORK						
	PRE CAST CONCRETE KERB : Manufacturing, supplying and fixing in position plain cement concrete precast kerb slab of size 600mm x 500mm x 100mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification and as directed by the departmental officers.			Sq.M	20.00		
9	JOINERY WORK						
9.1	Supply and installation of 5 x Tier locker as per specification given below.Material- HPL board;Thickness of side top bottom and door:9mm; Thickness of inside divider & rear sides: 3mm;Overall height : 2000mm (Including tile skirting of 150mm);Size: 450mm (W) x 370mm (H) x 450mm (D)- Height of column-1850mm;Accessories: ss Hinges, aluminium Channels, lock &keys , Screw all complete...as per the technical design and as directed by the departmental engineers.- Provision for Cloak room facility for artisan's			Nos	20.00		
9.2	SUPPLY- provision for the supply of approved 5.5mm glass including transportation,packing and handling during transportation			Sq.M	5.00		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9.3	SUPPLY- provision for the supply of approved 4mm glass including transportation,packing and handling during transportation			Sq.M	5.00		
9.4	provision for the wooden carpentry work to refabrishing existing joinery items - labour charges for fixing hold fasts,glass fixing,modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
	Carpenter - class 1			Nos	6.00		
	Carpenter - class 2			Nos	6.00		
10 FLOORING WORK							
10.1	Ellis pattern Flooring-20MM thickness - Finishing the flooring top with Cement Mortar 1:4 (No Sand) using hard granite chips of 3mm to 10mm size-complete complying with standard specification and as directed by the departmental officers.			Sq.M	74.40		
10.2	Paver Block -Supplying and laying of 60MM THICKNESS M-30 GRADE RUBBER MOULDED PAVER BLOCK paved over sand base of 120MM complete complying with standard specification and as directed by the departmental officers.			Sq.M	166.00		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10.3	Supplying and fixing in position of matt finish Colour Vitrified Floor tiles (heavy duty / industrial quality)of any size of approved special quality minimum of 09mm thickness laid in cement mortar 1:3(One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.			Sq.M	130.00		
10.4	Supplying and fixing of flame or Matte or Leather finished (RED or GREY) Granite slab of 18 mm to 20 mm thick of approved quality laid in CM 1:3 (one of cement and three of sand) 20mm thick over including cutting the granite slab to the required size where ever necessary,nosing the edges to the required shape including cost of granite slab, polishing laying finishing etc all complete in all respects and as directed by the departmental officers. (Measurement will be taken including bearing also. The quality and color of Granite slab shall be got approved by the Competant Authority before fixing.)			Sq.M	15.00		
11 MASONRY WORK							
11.1	Provision-Brick work in cement mortar 1:5(One of cement and Five of sand) using chamber burnt Second class Table moulded stock bricks of size 9"x 4 1/2"x 3" having minimum average crushing strength of 50Kg/sqcm for super structure in the following floors including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings..			Cu.M	5.00		
11.2	Brick work in following Cement Mortar using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.			Cu.M	5.85		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
11.3	Brick partition walls of 11cm thickness using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.(Hoop iron reinforcement will be measured and paid for separately)			Sq.M	133.60		
12 PLASTERING WORK							
12.1	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.			Sq.M	370.00		
12.2	Provision for retrofit work for sunshade or any ceiling surface - Special Plastering Cement Mortar 1:3 (One cement and Three sand) with water proof compound for a thickness of 12mm in all floors including curing etc.(mixed with water Proof Compound 2 Kg/10Sqm along with approved WPC coats) complete complying with standard specification and as directed by the departmental officers.			Sq.M	101.84		
13 PAINTING WORK							
13.1	Painting two coats of newly plastered wall surface with ready mixed weather proof emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	720.00		
13.2	Painting two coats of newly plastered wall surface with ready mixed emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	700.00		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SI.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
13.3	Painting over any steel/Iron work with two coats of best quality approved 1st class synthetic ready mixed enamel paint of approved quality etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	165.00		
13.4	Painting over any wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all respects complying with relevant standard specification including any existing painting scrapping and removal of existing paint,etc..and the whole works as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	134.16		
14	ROOFING WORK						
14.1	Supply- fabrication- erection of MS Tubular sections along with necessary MS plates, cleats, bolts & nuts with good welding. The M.S structure will be applied with one coat of zinc chromate primer and finished paint.Supply – Laying – Fixing of pre coated plain / Tile profile sheet as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	190		
14.2	Supply of MS Tubular columns at required position. The M.S tubes will be applied with one coat of zinc chromate primer and finished paint including conveyance, loading unloading etc. all complete complying with relevant standard specification and by approved design and as directed by the departmental officers.. all complete complying with relevant standard specification and by approved design and as directed by the departmental officers.			Kg	1693		

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
14.3	UPVC GUTTER - Supply- fabrication- erection of uPVC Gutter along with necessary upvc fittings and supported with GI steel clamp, cleats, bolts & nuts,etc. The GI clamps will be applied with one coat of zinc chromate primer and finished paint as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			RM	15		
14.4	Supplying and fixing AC sheet roofing with 6mm thick asbestos cement sheets of fully corrugated (grey colour) of approved quality by drilling holes (and not by punching) with necessary 'J' / 'U' bolts and nuts of 8mm dia of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification and as directed.			Sq.M	23		
15 STEEL WORK							
	Supplying and fixing of in position of Mild steel square/flat/angle section fabricated members for Grills & gates,etc...The M.S surface will be applied with one coat of primer and two coat of painting as per approved design.This work includes the cost of material,Labour Charges for fixing Conveyance, Packing Charges, Scaffolding, etc.. complete as per relevant standard specification as directed by the departmental officers.			kg	336.0		
16	Rain water Harvesting pit -all complete complying with relevant standard specification and as directed by the departmental officers.			Nos	2.0		
17	Electrical LT,Elv & Illumination works -all complete complying with relevant standard specification and as directed by the departmental officers.						
18	Plumbing and Sanitation works -all complete complying with relevant standard specification and as directed by the departmental officers.						

Package 04-Poompuhar Art Metal Production Centre,Swamimalai

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Swamimalai, Tamilnadu

Sl.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
19	Supply and Fixing of domestic & safety signages -all complete complying with relevant standard specification and as directed by the departmental officers.						
20	Total for the Above works (Sum of Above)						
21	Add Concessional rate of GOODS & SERVICE TAX @ 18% (CGST at 9%+SGST at 9%) for any Government construction contracts.						
22	Grand Total Including GST@18% (Sum of Sl.no.20 to Sl.no.21)						
	Rupees in Words-						

PROJECT: PROPOSED PHE BOQ FOR PRODUCTION UNIT AT SWAMIMALAI

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
PLUMBING AND SANITATION WORKS							
I	SOIL WASTE VENT AND RAIN WATER PIPES						
1	Supplying, fixing, testing and commissioning of PVC Soil, waste and ventilating pipes (SWR) conforming to IS:13592 /1990 -Type B with rubber ring (conforming to IS : 5382) joints inclusive of all necessary specials like bends, tee, offsets, door bends, junctions, cowls etc., laid under floor /fixed on walls and in pipe shaft with proper pipe support like brackets, hangers, MS grip bolts etc., complete. The support shall be painted with two coats of enamel paint.						
INTERNAL							
1.1	40 mm for Wash basin drains	Rmt	6				
1.2	75 mm Waste pipe	Rmt	24				
VERTICAL							
1.3	110 mm (Rain water -vertical)	Rmt	36				
1.4	75 mm (waste -vertical)	Rmt	3				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
2	Supplying, installing, testing and commissioning of PVC Floor trap with 110mm dia inlet and 75mm dia. outlet fixed on a bed of cement concrete with 150 x 150mm stainless steel type grating with threaded cover (Heavy duty type) etc., complete. The cost shall include Cockroach Traps.,	Nos	2				
II	INTERNAL WATER SUPPLY SYSTEM						
3	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc. with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 and restore the same in original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724. The solvent used shall be of approved make as recommended by the pipe manufacturer. Rate shall include necessary MS supports, clamps, hanging rods, Grip bolts and painting of all supports with 02 coats of enamel paint etc., complete in all respect.						
	Cold Water - Internal						
	a) 20 mm dia (I.D)	Rmt	6				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
4	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	Riser & Terrace Ring Main						
	a) 25 mm dia (I.D)	Rmt	12				
	b) 32 mm dia (I.D)	Rmt	36				
	c) 40 mm dia (I.D)	Rmt	18				
	d) 50 mm dia (I.D)	Rmt	24				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
5	Supplying, installing and testing and commissioning of approved make PN 16 class GM ball valves with necessary unions etc., complete in all respect.						
	a) 20 mm dia	Nos	1				
	b) 25 mm dia (Screwed ends)	Nos	1				
	c) 32 mm dia (Screwed ends)	Nos	1				
	d) 40 mm dia (Screwed ends)	Nos	1				
	e) 50 mm dia (Screwed ends)	Nos	2				
6	M.S brackets for the supports of pipes	Kg	10				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
III	EXTERNAL WATER SUPPLY						
7	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	a) 32 mm dia (I.D)	Rmt	24				
	b) 40 mm dia (I.D)	Rmt	24				
8	Supplying, installing, testing and commissioning butterfly valves with standard lever conforming to IS standard 13039 with necessary flanges, nuts and bolts etc., complete.						
	a) 100 mm dia	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
9	Supplying and fixing in position approved make PN 16 non-return valve conforming to IS 778 with unions etc., complete.						
	a) 32 mm dia	Nos	1				
	b) 40mm dia	Nos	1				
10	Supplying and fixing in position approved make pot / Y - strainer complete conforming to IS standards etc., complete.						
	a) 50 mm dia	Nos	1				
11	Supplying, installing, testing and commissioning of factory made double layer water tank with lid.Erection of the connecting pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.(Sintex or any Eqvnt.)						
	a) for 1000Litre	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
12	Supply and installation of Water proof treatment chemicals in layers over existing terrace surface and joints in horizontal/vertical application as per the manufacturers product details and standard specification.(Fosrac/Dr.Fixit/eqv'nt)	Sq.M	110	0		0	
	SUB TOTAL						
	GRAND TOTAL FOR SUPPLY & ERECTION						

ELECTRICAL & ELV BOQ FOR PRODUCTION UNIT AT SWAMIMALAI

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
				1.0	POINT WIRING:		
1.1	Supply, installation, testing and commissioning of point wiring using 3 runs of 1.5 sqmm FRLS (P, N & E) PVC insulated, unsheathed,multistrand copper conductor wires in 20mm dia PVC conduit. The rate shall include wall cutting, plastering, supply of wires, conduits, junction box, termination accessories, 16G metal switch boxes modular type one/two way 6A switch/sockets,suitable front plate as required.						
a)	Primary Point(one way)						
		Point	20				
b)	secondary Point						
		Point	10				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
c)							
d)	Two way point light point	Point	2				
e)	one way fan point with 1M electronic regulator	Point	6				
f)	Exhaust fan point including 6A socket near fan	Point	1				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
g)	Call bell point with bell push	Point	1				
h)	Flexible spring type cable arrangement LED light point with dimmer control	Point	10				
2.0	PRIMARY CIRCUIT WIRING:						
2.1	Supply, Wiring testing & commissioning of 2R 2.5 with 1R 1.5sqmm PVC insulated copper conductor 1100 volts grade FRLS wire in suitable concealed heavy duty PVC conduit with all accessories as required for lighting & small power circuit mains from DB to switch/socket board.	Mtrs	60				
2.2	Supply, Wiring testing & commissioning of 2R 4.0 with 1R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for 16A power circuit mains from DB to socket.	Mtrs	60				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
2.3	Supply, Wiring testing & commissioning of 4R 6.0 with 2R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for DB incomer.	Mtrs	20				
3.0	POWER OUTLETS:						
3.1	Supply, fixing, testing & commissioning of 6A 5pin modular type socket & switch located at switch box/location with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				
3.2	Supply, fixing, testing & commissioning of 16A 5pin modular type dependent socket & switch with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	5				
3.3	Supply, fixing, testing & commissioning of 6/16A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	10				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
3.4	Supply, fixing, testing & commissioning of 20A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	5				
4.0	DISTRIBUTION BOARDS:						
4.1	Provision for - Shifting, installation, testing & commissioning of existing Distribution boards as per the technical specification	set	2	0		0	
5	Luminaires						
5.1	Supply, Installation of the following LED light fixtures & fans with necessary accessories such as fasteners, downrods, M.S.pipes & all accessories as required at site.						
a	26W Ceiling/false ceiling mounted LED light	Set	4				
b	20W LED tube light	Set	20				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
c	Water proof Wall Mounted fancy 12 W LED light	Set	2				
d	LED-Picture light/ Mirror light (1X8W)	Set	10				
e	LED-Outdoor water proof down light/ focus light (1X8W)	Set	2				
f	Track light fixture for Light fixture	Nos	2				
g	Track light fixture with 8W LED LIGHT	Nos	4				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
h	Track light fixture with 4W LED LIGHT	Nos	8				
i	LED strip with regulator	Mtrs	6				
j	Chandliar Light	Set	1				
k	1200mm dia Ceiling Fan	Set	6				
l	Heavy duty industrial exhaust Fan	Set	1				

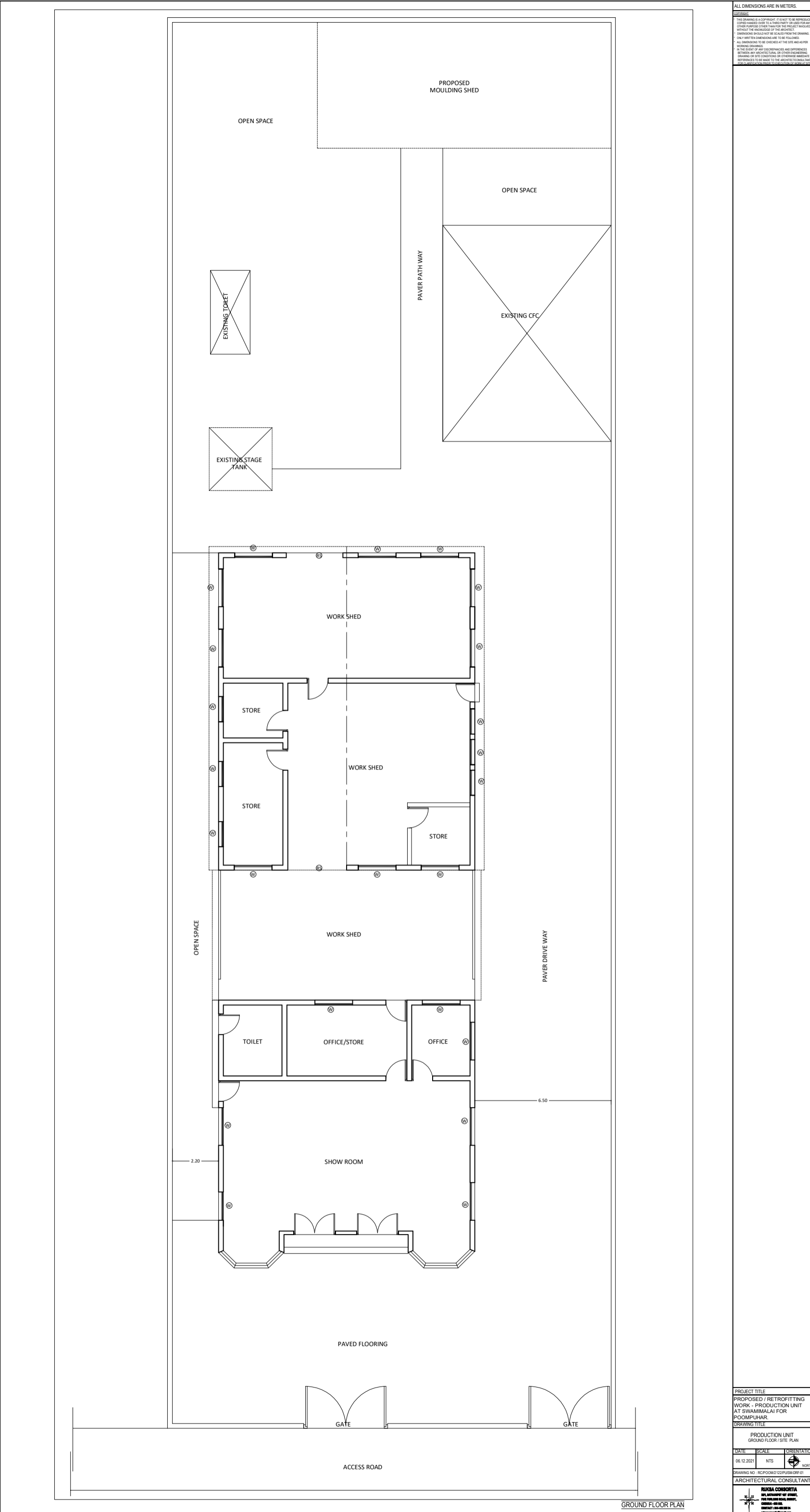
S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
m	300mm dia Exhaust Fan	Set	2				
n	Wall Mounted fan	Set	2				
o	40W street light with wall bracket	Set	3				
p	bulkhead fitting	Set	2				
q	Buzzer	Set	1				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
r	Flexible spring type cable arrangement LED light point with dimmer control	Nos	6				
6.0	COMMUNICATION CABLE & CONDUITS:						
6.1	Supply and laying following sizes of Heavy duty PVC conduits concealed in the ceiling, floors, wall etc with all accessories like bends, couplers, pullwire etc including cutting and filling the chases						
a	40mm Dia	Mtr	30				
b	25mm Dia	Mtr	20				
c	19mm Dia	Mtr	25				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
6.2	Supply, laying of CAT6 cable for LAN communication.	Mtr	20				
6.3	Supply and installation of modular flush mounted RJ45 data Outlet with front plate 1.2mm thick GI Box complete with all accessories as required.	Nos	3				
6.40	Supply, laying of twin core twisted pair cable for speaker	Mtr	20				
7	provision for the Electrical repair work to refabriching the existing electrical conduit or fixtures/ items - labour charges for fixing,modifications as per standard specifications etc., complete in all respects						
7.1	Electrician - class 1	Nos	5	0		0	

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
7.2	Electrician - class 2	Nos	4	0		0	
					SUB TOTAL		
					GRAND TOTAL		

SIGNAGE BOQ FOR PRODUCTION UNIT,SWAMIMALAI					
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	SIGNAGES				
1.0	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut. PVC non-reflective self adhesive vinyle painted foam board along with directional FR Reflective tape, complete with mirror fasteners.				
a.	Signages with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm * 30cm and shall be fixed at the height of 2mts, from finished floor near Exit.	1	Nos.		
2.0	Floor & room indentification signage (i.e, Drilling lathe,Store,etc..) at each stair enclosure on every floor, indicating the floor number in words,work shops,toilets,etc.. lettering size shall be 7.5cm with contrasting colour from back ground. Size shall be 15cm * 60cm.	4	Nos.		
3.0	Providing and fixing in position the signage of " Incase of fire do use this " Size 8" x 8"	1	Nos.		
4.0	Providing and fixing in position the signage of " Fire Extinguisher " to be pasted immediately above the every extinguisher. Size 4" x 4"	4	Nos.		
5.0	Providing and installing in position - the following type of sign boards made out of flex sign board with fixing supports and MS frames,screws,labour,etc..Complete	3.3	Sq.M		
TOTAL FOR SIGNAGE					



ALL DIMENSIONS ARE IN METERS.
 THIS DRAWING IS A CONTRACT DOCUMENT. IT SHALL BE THE RESPONSIBILITY OF THE CLIENT TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED AND TO OBTAIN NECESSARY APPROVALS FROM THE APPROPRIATE AUTHORITIES. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY CONSEQUENCES ARISING FROM THE USE OF THIS DRAWING WITHOUT THE KNOWLEDGE OF THE ARCHITECT. DIMENSIONS SHOWN ON THIS DRAWING SHALL PREVAIL OVER ANY OTHER DIMENSIONS. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. ALL DIMENSIONS TO BE CHECKED AT THE SITE AND AT THE WORKING DRAWINGS. IN THE EVENT OF ANY DISCREPANCIES AND DIFFERENCES BETWEEN ANY ARCHITECTURAL OR OTHER ENGINEERING DRAWINGS OR THE CONSTRUCTION OF CONCRETE, MASONRY, PAINTWORK, ETC. SHALL BE TO THE ARCHITECT'S SOLE RESPONSIBILITY.

PROJECT TITLE		
PROPOSED / RETROFITTING WORK - PRODUCTION UNIT AT SWAMIMALAI FOR POOMPURAR.		
DRAWING TITLE		
PRODUCTION UNIT GROUND FLOOR / SITE PLAN		
DATE	SCALE	ORIENTATION
06.12.2021	NTS	
DRAWING NO: RC/POOM2/22/PUSA/DF-01		
ARCHITECTURAL CONSULTANT		
RUKMA CONSULTANTS 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.		

Package-05 Poompahar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
1	CLEARING THE SITE						
	Clearing scrub jungle-as per the the direction of the departmental officers in all respects-Complete.			Sq.M	240.00		-
2	EARTHWORK EXCAVATION						
	Earthwork excavation in sand silt or other loose soil wet sand or silt,light black cotton,sandy loam soil and to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary,depositing the surplus earth in places shown clearing and levelling the site with an initial lead of 10 metre and lifts as specified hereunder(including refilling) etc.,all complete in all respects complying with relevant standard specification.Narrow Cutting			Cu.M	15.55		-
3	FILLING & COMPACTING						
3.1	SOIL FILLING: Filling in foundation and basement with filling excavated soil in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	35.75		-
3.2	Gravel Filling: Supplying and filling basement with gravel from 10 km in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.			Cu.M	36.00		-
3.3	SAND FILLING : Supplying and filling in foundation and basement with filling sand in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications including cost of filling sand			Cu.M	41.46		-
4	PLAIN CEMENT CONCRETE						

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
4.1	PLAIN CEMENT CONCRETE 1:5:10 - Cement concrete1:5:10(One of cement,five of sand and ten of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	18.47		-
4.2	PLAIN CEMENT CONCRETE 1:2:4 - Cement concrete1:2:4(One of cement,two of sand and four of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.			Cu.M	6.21		-
4.3	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification			Sq.M	62.10		-
4.4	Providing pre-constructional Antitermite treatment including cost of chemicals labour as per standard specifications for preparing the area for treatment by spraying chemicals and other incidental charges etc.. complete. The rates should be for antitermite treatment from the plinth beam and brick masonry with super structure in contact with the back fill earth and at the junction of the walls. The top surface of filled earth for flooring and the soil along with the perimeter of the building by making holes with the crow bar and poured 5% termiticide "Chloripyrifos" and spraying the same termiticide solution on the wooden frames and treating the other periphery of buildings etc., complete in all respects as per IS 6313 (part II) / 1981 and as directed by the departmental officers.			Sq.M	700.00		-
5	SHUTTERING WORK						

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals,plinth beams,grade beams,staircase,steps,etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			Sq.M	60.39		-
6	RCC WORK without Reinforcement						
	Cement Concrete 1 : 2 : 4 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement,for all R.C.C works namely foundation,Tee,rectangular beams,lintel,parapet cum drops,waist and landing slabs,canopy,fin projects,sunshades>window boxing slab, footing, pedestal and other similar works excluding the cost of reinforcement and fabrication charges,centering and shuttering but including laying,vibrating, finishing,curing,etc..all complete complying with relevant standard specification.			Cu.M	10.59		-
7	REINFORCEMENT FOR RCC WORK						
	Supplying, fabricating and placing in position of Mild steel/Ribbed Tor steel TMT Rod - Fe 500 for reinforcement for all RCC works in all floors including the cost of binding wire, bending, tying,Welding etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (Contractor has to make his own arrangements for the supply of steel and binding wire)			QTL	7.79		-
8	PRE CAST CONCRETE WORK						

Package-05 Poompahar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompahar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
	PRE CAST CONCRETE KERB : Manufacturing, supplying and fixing in position plain cement concrete precast kerb slab of size 600mm x 500mm x 100mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification and as directed by the departmental officers.			Sq.M	20.00		-

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
9	JOINERY WORK						
9.1	Supply and installation of 5 x Tier locker as per specification given below.Material- HPL board;Thickness of side top bottom and door:9mm; Thickness of inside divider & rear sides: 3mm;Overall height : 2000mm (Including tile skirting of 150mm);Size: 450mm (W) x 370mm (H) x 450mm (D)- Height of column-1850mm;Accessories: ss Hinges, aluminium Channels, lock &keys , Screw all complete...as per the technical design and as directed by the departmental engineers.- Provision for Cloak room facility for artisan's			Nos	15.00		-
9.2	SUPPLY- provision for the supply of approved 5.5mm glass including transportation,packing and handling during transportation			Sq.M	5.00		-
9.3	SUPPLY- provision for the supply of approved 4mm glass including transportation,packing and handling during transportation			Sq.M	5.00		-
9.4	provision for the wooden carpentry work to refabriching existing joinery items - labour charges for fixing hold fasts,glass fixing,modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
9.4.1	Carpenter - class 1			Nos	6.00		-
9.4.2	Carpenter - class 2			Nos	6.00		-
10	FLOORING WORK						

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
10.1	Ellis pattern Flooring-20MM thickness - Finishing the flooring top with Cement Mortar 1:4 (No Sand) using hard granite chips of 3mm to 10mm size-complete complying with standard specification and as directed by the departmental officers.			Sq.M	93.00		-
10.2	Paver Block -Supplying and laying of 60MM THICKNESS M-30 GRADE RUBBER MOULDED PAVER BLOCK paved over sand base of 120MM complete complying with standard specification and as directed by the departmental officers.			Sq.M	200.00		-
11	MASONRY WORK						
11.1	Provision-Brick work in cement mortar 1:5(One of cement and Five of sand) using chamber burnt Second class Table moulded stock bricks of size 9"x 4 1/2"x 3" having minimum average crushing strength of 50Kg/sqcm for super structure in the following floors including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings..			Cu.M	5.00		-
11.2	Brick work in following Cement Mortar using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.			Cu.M	18.00		-
11.3	Brick partition walls of 11cm thickness using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./ sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.(Hoop iron reinforcement will be measured and paid for separately)			Sq.M	110.00		-

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
12	PLASTERING WORK						
12.1	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.			Sq.M	541.00		-
12.2	Provision for retrofit work for sunshade or any ceiling surface - Special Plastering Cement Mortar 1:3 (One cement and Three sand) with water proof compound for a thickness of 12mm in all floors including curing etc.(mixed with water Proof Compound 2 Kg/10Sqm along with approved WPC coats) complete complying with standard specification and as directed by the departmental officers.			Sq.M	10.00		-
13	PAINTING WORK						
13.1	Painting two coats of newly plastered wall surface with ready mixed weather proof emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	490.00		-
13.2	Painting two coats of newly plastered wall surface with ready mixed emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.M	780.00		-
13.3	Painting over any wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all respects complying with relevant standard specification including any existing painting scrapping and removal of existing paint,etc..and the whole works as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).			Sq.M	36.96		-

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
14 ROOFING WORK							
14.1	Supply- fabrication- erection of MS Tubular sections along with necessary MS plates, cleats, bolts & nuts with good welding. The M.S structure will be applied with one coat of zinc chromate primer and finished paint. Supply – Laying – Fixing of pre coated plain / Tile profile sheet as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	200		-
14.2	Supply of MS Tubular columns/structural members at required position. The M.S tubes will be applied with one coat of zinc chromate primer and finished paint including conveyance, loading unloading etc. all complete complying with relevant standard specification and by approved design and as directed by the departmental officers.. all complete complying with relevant standard specification and by approved design and as directed by the departmental officers.			Kg	1580		-
14.3	Supply- fabrication- erection of plain two core polycarbonate sheet over existing MS Tubular sections along with necessary cleats, bolts & nuts,etc. - as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	90		
14.4	Laying – Fixing of existing Asbestos sheets over vertical/horizontal wall or roofing surface as per approved design including handling at site,fixing bolts&nuts with required cascade,etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	90		
14.5	UPVC GUTTER - Supply- fabrication- erection of uPVC Gutter along with necessary upvc fittings and supported with GI steel clamp, cleats, bolts & nuts,etc. The GI clamps will be applied with one coat of zinc chromate primer and finished paint as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			RM	80		-

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
15	STEEL WORK						
15.1	Supplying and fixing of in position of Mild steel square/flat/angle section fabricated Gates, grills and roofing structural support members.The M.S Grills will be applied with one coat of primer and two coat of painting as per approved design.This work includes the cost of material,Labour Charges for fixing Conveyance, Packing Charges, Scaffolding, etc.. complete as per relevant standard specification as directed by the departmental officers.			kg	4500.0		-
15.2	Weld mesh work-Supply and fixing of weld mesh with specified grid size welded over MS angle frames with a size of 40X40MM at position as per the approved drawings and as directed by the departmental officers - which includes standard welding and any opening & locking facilities,Labour Charges for fixing, Conveyance,Painting,etc-complete in all respects complying with relevant standard specification.			kg	1500.0		
15.3	Supplying and fixing of in position of Mild steel sheet/flat/angle sections for refurbishing the existing Gates, grills,etc along with hinges,locking facilities..The existing and additional new M.S surface will be cleaned up and will be applied with one coat of primer and two coat of painting as per approved design.This work includes the cost of material,Labour Charges for fixing Conveyance, Packing Charges, Scaffolding, etc.. complete as per relevant standard specification as directed by the departmental officers.			Sq.M	20.0		
16	Demolition work						
	Demolition of existing concrete members,masonry walls with necessary safety and precautionary methodology cum practice at site.The debries to be dumped and removed-as per the the direction of the departmental officers in all respects-Complete.			Sq.M	136.00		
17	Rain water Harvesting pit -all complete complying with relevant standard specification and as directed by the departmental officers.			Nos	2.00		

Package-05 Poompuhar Art Plate Production Centre,Thanjavur

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit at Thanjavur, Tamilnadu

SL.NO	DESCRIPTION	Item Rate (in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
18	Electrical LT,Elv & Illumination works -all complete complying with relevant standard specification and as directed by the departmental officers.						
19	Plumbing and Sanitation works -all complete complying with relevant standard specification and as directed by the departmental officers.						
20	Supply and Fixing of domestic & safety signages -all complete complying with relevant standard specification and as directed by the departmental officers.						
21	Total for the Above works (Sum of Above)						
22	Add Concessional rate of GOODS & SERVICE TAX @ 18% (CGST at 9%+SGST at 9%) for any Government construction contracts.			18%			
23	Grand Total Including GST@18% (Sum of Sl.no.21 to Sl.no.22)						
	Rupees in Words-						

PROJECT: PROPOSED PHE BOQ FOR PRODUCTION UNIT AT THANJAVUR

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
PLUMBING AND SANITATION WORKS							
I	SOIL WASTE VENT AND RAIN WATER PIPES						
1	Supplying, fixing, testing and commissioning of PVC Soil, waste and ventilating pipes (SWR) conforming to IS:13592 /1990 -Type B with rubber ring (conforming to IS : 5382) joints inclusive of all necessary specials like bends, tee, offsets, door bends, junctions, cowls etc., laid under floor /fixed on walls and in pipe shaft with proper pipe support like brackets, hangers, MS grip bolts etc., complete. The support shall be painted with two coats of enamel paint.						
1.1	110 mm (Rain water -vertical/Horizontal)	Rmt	60				
1.2	75 mm (waste line)	Rmt	3				
2	Supplying, installing, testing and commissioning of PVC Floor trap with 110mm dia inlet and 75mm dia. outlet fixed on a bed of cement concrete with 150 x 150mm stainless steel type grating with threaded cover (Heavy duty type) etc., complete. The cost shall include Cockroach Traps.,	Nos	2				
II	INTERNAL WATER SUPPLY SYSTEM						

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
3	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc. with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 and restore the same in original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724. The solvent used shall be of approved make as recommended by the pipe manufacturer. Rate shall include necessary MS supports, clamps, hanging rods, Grip bolts and painting of all supports with 02 coats of enamel paint etc., complete in all respect.						
	Cold Water - Internal						
	a) 20 mm dia (I.D)	Rmt	5				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
4	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	Riser & Terrace Ring Main						
	a) 25 mm dia (I.D)	Rmt	18				
	b) 32 mm dia (I.D)	Rmt	24				
	c) 40 mm dia (I.D)	Rmt	18				
	d) 50 mm dia (I.D)	Rmt	18				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
5	Supplying, installing and testing and commissioning of approved make PN 16 class GM ball valves with necessary unions etc., complete in all respect.						
	a) 20 mm dia	Nos	1				
	b) 25 mm dia (Screwed ends)	Nos	1				
	c) 32 mm dia (Screwed ends)	Nos	1				
	d) 40 mm dia (Screwed ends)	Nos	1				
	e) 50 mm dia (Screwed ends)	Nos	1				
6	M.S brackets for the supports of pipes	Kg	9				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
III	EXTERNAL WATER SUPPLY						
7	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	a) 32 mm dia (I.D)	Rmt	12				
	b) 40 mm dia (I.D)	Rmt	12				
8	Supplying, installing, testing and commissioning butterfly valves with standard lever conforming to IS standard 13039 with necessary flanges, nuts and bolts etc., complete.						
	a) 100 mm dia	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
9	Supplying and fixing in position approved make PN 16 non-return valve conforming to IS 778 with unions etc., complete.						
	a) 32 mm dia	Nos	1				
	b) 40mm dia	Nos	1				
10	Supplying and fixing in position approved make pot / Y - strainer complete conforming to IS standards etc., complete.						
	a) 50 mm dia	Nos	1				
11	Supplying, installing, testing and commissioning of factory made double layer water tank with lid.Erection of the connecting pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.(Sintex or any Eqvnt.)						
	a) for 1000Litre	Nos	1				

SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
12	Supply and installation of Water proof treatment chemicals in layers over existing terrace surface and joints in horizontal/vertical application as per the manufacturers product details and standard specification.(Fosrac/Dr.Fixit/eqv'nt)	Sq.M	80	0		0	
	SUB TOTAL						
	GRAND TOTAL FOR SUPPLY & ERECTION						

ELECTRICAL & ELV BOQ FOR PRODUCTION UNIT AT THANJAVUR

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
1.0	POINT WIRING:						
1.1	Supply, installation, testing and commissioning of point wiring using 3 runs of 1.5 sqmm FRLS (P, N & E) PVC insulated, unsheathed, multistrand copper conductor wires in 20mm dia PVC conduit. The rate shall include wall cutting, plastering, supply of wires, conduits, junction box, termination accessories, 16G metal switch boxes modular type one/two way 6A switch/sockets, suitable front plate as required.						
a)	Primary Point(one way)	Point	10				
b)	secondary Point	Point	10				
c)	Two way point light point	Point	2				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
d)	one way fan point with 1M electronic regulator	Point	4				
e)	Exhaust fan point including 6A socket near fan	Point	1				
f)	Call bell point with bell push	Point	1				
g)	Flexible spring type cable arrangement LED light point with dimmer control	Point	4				
2.0	PRIMARY CIRCUIT WIRING:						

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
2.1	Supply, Wiring testing & commissioning of 2R 2.5 with 1R 1.5sqmm PVC insulated copper conductor 1100 volts grade FRLS wire in suitable concealed heavy duty PVC conduit with all accessories as required for lighting & small power circuit mains from DB to switch/socket board.	Mtrs	20				
2.2	Supply, Wiring testing & commissioning of 2R 4.0 with 1R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for 16A power circuit mains from DB to socket.	Mtrs	20				
2.3	Supply, Wiring testing & commissioning of 4R 6.0 with 2R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for DB incomer.	Mtrs	15				
3.0	POWER OUTLETS:						
3.1	Supply, fixing, testing & commissioning of 6A 5pin modular type socket & switch located at switch box/location with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	5				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
3.2	Supply, fixing, testing & commissioning of 16A Spin modular type dependent socket & switch with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	5				
3.3	Supply, fixing, testing & commissioning of 6/16A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	5				
3.4	Supply, fixing, testing & commissioning of 20A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	3				
4.0	DISTRIBUTION BOARDS:						
4.1	Provision for - Shifting, installation, testing & commissioning of existing Distribution boards as per the technical specification	set	2	0		0	
5	Luminaires						
5.1	Supply, Installation of the following LED light fixtures & fans with necessary accessories such as fasteners, downrods, M.S.pipes & all accessories as required at site.						

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
a	20W LED tube light	Set	12				
b	Water proof Wall /Floor Mounted fancy 18 W LED light	Set	6				
c	LED-Picture light/ Mirror light (1X8W)	Set	10				
d	LED-Outdoor water proof down light/ focus light (1X4W+4W)	Set	4				
e	Track light fixture for Light fixture	Nos	2				

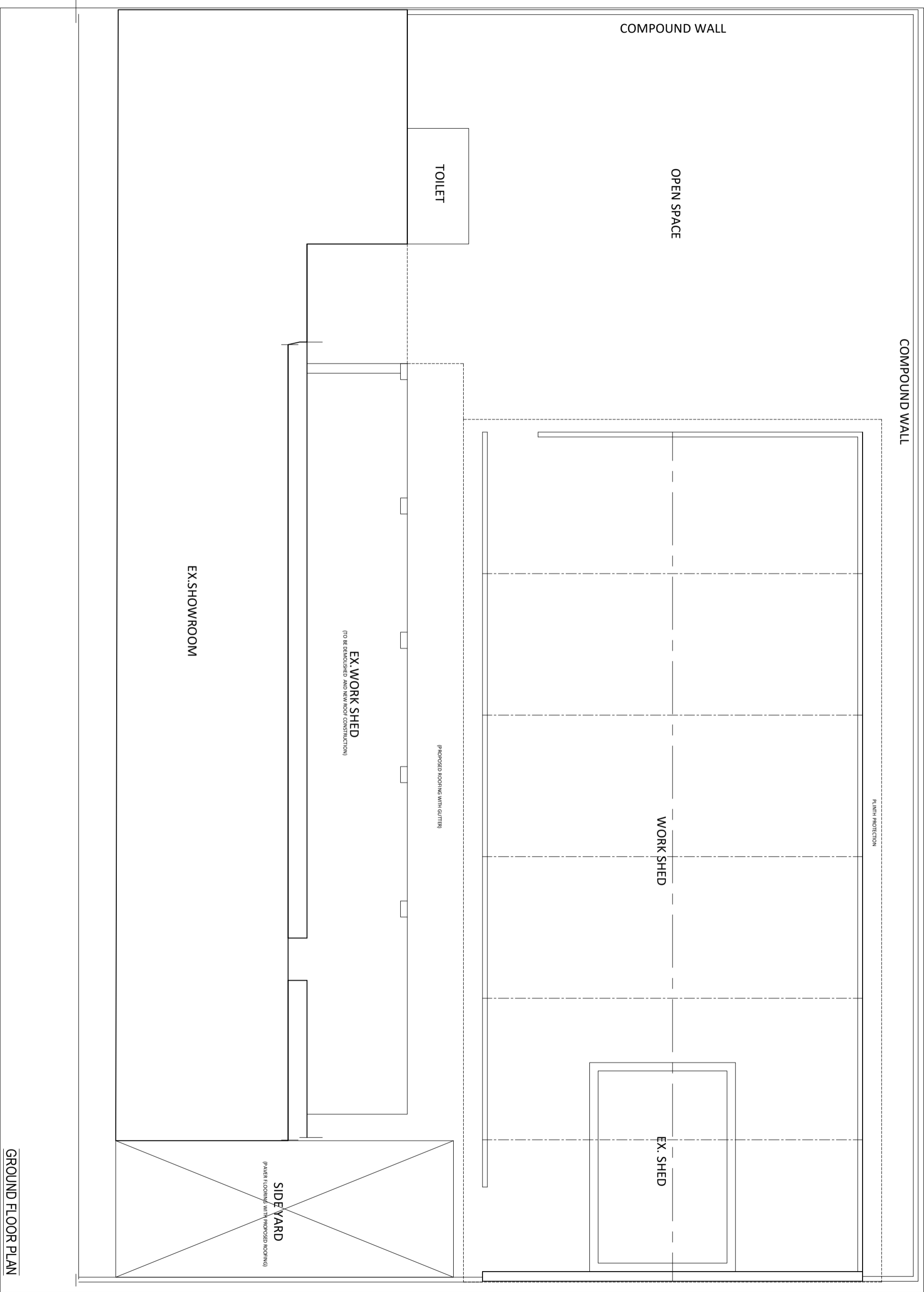
S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
f	Track light fixture with 4W LED LIGHT	Nos	8				
g	LED outdoor compound wall light	Nos	4				
h	1200mm dia Ceiling Fan	Set	6				
i	Wall Mounted fan	Set	4				
j	40W street light with wall bracket	Set	1				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
k	Flexible spring type cable arrangement LED light point with dimmer control	Nos	4				
6.0	COMMUNICATION CABLE & CONDUITS:						
6.1	Supply and laying following sizes of Heavy duty PVC conduits concealed in the ceiling, floors, wall etc with all accessories like bends, couplers, pullwire etc including cutting and filling the chases						
a	40mm Dia	Mtr	35				
b	25mm Dia	Mtr	20				
c	19mm Dia	Mtr	20				

S.No.	Description	Unit	QTY	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
7	provision for the Electrical repair work to refabricating the existing electrical conduit or fixtures/ items - labour charges for fixing,modifications as per standard specifications etc., complete in all respects						
7.1	Electrician - class 1	Nos	5	0		0	
7.2	Electrician - class 2	Nos	4	0		0	
SUB TOTAL							
GRAND TOTAL							

SIGNAGE BOQ FOR PRODUCTION UNIT, THANJAVUR					
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	SIGNAGES				
1.0	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut. PVC non-reflective self adhesive vinyle painted foam board along with directional FR Reflective tape, complete with mirror fasteners.				
a.	Signages with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm * 30cm and shall be fixed at the height of 2mts, from finished floor near Exit.	1	Nos.		
2.0	Floor & room indentification signage (i.e, Drilling lathe,Store,etc..) at each stair enclosure on every floor, indicating the floor number in words,work shops,toilets,etc.. lettering size shall be 7.5cm with contrasting colour from back ground. Size shall be 15cm * 60cm.	4	Nos.		
3.0	Providing and fixing in position the signage of " Incase of fire do use this " Size 8" x 8"	1	Nos.		
4.0	Providing and fixing in position the signage of " Fire Extinguisher " to be pasted immediately above the every extinguisher. Size 4" x 4"	4	Nos.		
5.0	Providing and installing in position - the following type of sign boards made out of flex sign board with fixing supports and MS frames,screws,labour,etc..Complete	3.3	Sq.M		
TOTAL FOR SIGNAGE					

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GROUND FLOOR PLAN

PROJECT TITLE
 PROPOSED / RETROFITTING
 WORK - PRODUCTION UNIT
 AT THANJAVUR FOR
 POOMPUHAR.

DRAWING TITLE
 PRODUCTION UNIT
 GROUND FLOOR PLAN

DATE	SCALE	ORIENTATION
06.12.2021	NTS	NORTH

DRAWING NO. - RCP/POUM/21/22/PT/TH-09F-01

ARCHITECTURAL CONSULTANT

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Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

SL.NO	DESCRIPTION	Item Rate(in Numbers)	Item Rate (in words)	UNIT	TOTAL QTY	AMOUNT (in words)	AMOUNT (in Numbers)
1	CLEARING THE SITE						
	Clearing scrub jungle-as per the the direction of the departmental officers in all respects-Complete. As per the the direction of the departmental officers in all respects-Complete.			Sq.M	3044.00		
2	Demolition work						
	Demolition of existing concrete members,masonry walls with necessary safety and precautionary methodology cum practice at site.The debries to be dumped and removed-as per the the direction of the departmental officers in all respects-Complete.			Sq.M	50.00		
3	EARTHWORK EXCAVATION						
	Earthwork excavation in sand silt or other loose soil wet sand or silt,light black cotton,sandy loam soil and to the required depth as may be directed except in hard rock requiring blasting inclusive of shoring strutting and baling out water wherever necessary,depositing the surplus earth in places shown clearing and levelling the site with an initial lead of 10 metre and lifts as specified hereunder(including refilling) etc.,all complete in all respects complying with relevant standard specification.Narrow Cutting			Cu.M	8.98		

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

4 FILLING & COMPACTING						
4.1	SOIL FILLING: Filling in foundation and basement with filling excavated soil in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.				Cu.M	8.98
4.2	Gravel Filling: Supplying and filling basement with gravel from 10 km in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications.				Cu.M	55.00
4.3	SAND FILLING : Supplying and filling in foundation and basement with filling sand in layer of 150mm thickness well watered,rammed and consolidated - complying with relevant standard specifications including cost of filling sand				Cu.M	37.41
5 PLAIN CEMENT CONCRETE						
5.1	PLAIN CEMENT CONCRETE 1:5:10 - Cement concrete1:5:10(One of cement,five of sand and ten of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.				Cu.M	31.19

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

5.2	PLAIN CEMENT CONCRETE 1:2:4 - Cement concrete1:2:4(One of cement,two of sand and four of hard broken stone jelly) for foundation and flooring using 40 mm size HBG inclusive of shoring, strutting,baling out water,wherever necessary ramming,curing etc.,complete in all respect complying with relevant standard specifications.				Cu.M	5.03	
5.3	Damp proof course with Cement Mortar 1:4 (One Cement and Four sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification				Sq.M	191.64	
6	RCC WORK without Reinforcement						
	Cement Concrete 1 : 1 1/2 : 3 Mix using ordinary portland cement with water cement ratio not exceeding 0.45 including the use of plasticizer of required Grade and Hard Granite stone jelly of 20 mm size down graded as per requirement,for all R.C.C works namely foundation,Tee,rectangular beams,lintel,parapet cum drops,waist and landing slabs,canopy,fin projects,sunshades>window boxing slab, footing, pedestal and other similar works excluding the cost of reinforcement and fabrication charges,centering and shuttering but including laying,vibrating, finishing,curing,etc..-all complete complying with relevant standard.				Cu.M	14.00	
7	PRE CAST CONCRETE WORK						

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

7.1	PRE CAST CONCRETE KERB : Manufacturing, supplying and fixing in position plain cement concrete precast kerb slab of size 600mm x 500mm x 100mm in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification and as directed by the departmental officers.			Sq.M	28.50		
7.2	PRE CAST CONCRETE JALLY : Manufacturing, supplying and fixing in position reinforced cement concrete jally with 50mm thickness in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting, finishing, curing, fixing and pointing with CM 1:3 (One Cement and Three Sand),etc., complete...complying with standard specification and as directed by the departmental officers.			Sq.M	5.00		
8	JOINERY WORK						
8.1	Doors: Supply and fixing of Pre laminated wood plastic composite doors - WPC shutter Panel of 28mm thick with WPC door frame at position as per the approved drawings and as directed by the departmental officers - which includes handle,hinges and locking facilities,other accessories,Labour Charges for fixing, Conveyance,Painting,etc-complete in all respects complying with relevant standard specification.			Sq.M	2.10		

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

8.2	SUPPLY- provision for the supply of approved 5.5mm glass including transportation,packing and handling during transportation			Sq.M	5.00		
8.3	SUPPLY- provision for the supply of approved 4mm glass including transportation,packing and handling during transportation			Sq.M	5.00		
8.4	provision for the iron retrofit work to refabrishing existing joinery and truss items - labour charges for fixing hold fasts,glass fixing,modifications in the existing shutters and frames as per standard specifications etc., complete in all respects						
8.4.1	Welder - class 1			Nos	10.00		
8.4.2	Welder - class 2			Nos	10.00		
8.5	Brought in furniture-Providing,fixing at position- A factory made modular furniture-desk of over all size of top as required with the standard height of 2'6" above FFL. It shall consist of 18mm thk.BWR plywood top as per design supported on 12mm thk BWR plywood verticals and the edges are finished with 2mm poly-edgeband.The all surface of the ply should finished with Laminate of approved make as per design with necessary pattern and colour.If required at site condition and design-The top surface of the furniture should be provided with 3" dia PVC wire manager of approved quality near the CPU / Monitor position along with modular electrical and LAN hub.The front surface of the furniture should have a provision for 6mm plain glass instead of Plywood surface as per design.The modular unit should furnished with readymade keyboard tray,adequate hardware fitting and brand of the laminate-(Merino/GreenLam/Equivalent).Complete			Sq.M	30.00		

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

8.6	Brought in furniture-Providing,fixing at position- A factory made modular furniture-desk of over all size of top as required with the standard height of 2'6" above sill and a depth of 1'0".It shall consist of 12mm thk.BWP plywood top as per design supported on 12mm thk BWP plywood verticals,back side finished with 6mm BWP Plywood and the edges are finished with 2mm poly-edgeband.The all surface of the ply should finished with Laminate of approved make as per design with necessary pattern and colour.The front surface of the furniture should have a provision for 6mm plain glass instead of Plywood surface as per design and adequate hardware fitting and brand of the laminate-(Merino/GreenLam/Equivalent).Complete			Sq.M	40.00		
8.7	Supply- fabrication- erection of MS Tubular sections gate at North East corner of the plot with a dimension of 4M wide and 2.1M height with adequate vertical steel supporting member and locking facilities with good and standard welding method. The M.S gate will be applied with one coat of zinc chromate primer and Two coat finished paint.The whole gate as per the approved design including conveyance, loading, unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Kg	400.00		
9 FLOORING WORK							

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

9.1	Ellis pattern Flooring-20MM thickness - Finishing the flooring top with Cement Mortar 1:4 (No Sand) using hard granite chips of 3mm to 10mm size- complete complying with standard specification and as directed by the departmental officers.			Sq.M	60.00		
9.2	Paver Block -Supplying and laying of 60MM THICKNESS M-30 GRADE RUBBER MOULDED PAVER BLOCK paved over sand base of 120MM complete complying with standard specification and as directed by the departmental officers.			Sq.M	35.00		
9.3	Providing Anti-termite treatment to soil adjacent and under building foundation, plinth periphery of the building by application of chemicals of IS 63613 part I to IV in stages to suit the progress of work consist as per the detailed specification as below. Including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc., complete and as directed by the departmental officers.			Sq.M	60.00		

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

9.4	Supplying and fixing in position of colour Antiskid Ceramic floor tiles of size 300mmx300mm of approved special quality of minimum of 6mm thickness laid in cement mortar 1:3 (One of cement and three of sand) 20mm thick for flooring including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers.Note:(The colour and quality shall be approved from the Competant Authority before use only one particular size of ceramic wall tiles to be used for one building)			Sq.M	6.00		
9.5	Wall tiles- Supplying and fixing in position of Colour glazed wall tiles of any size 8mm thickness laid in cement mortar 1:2(One of cement and two of sand) 10mm thick for wall facing / dadoing ,skirting over the plastered surfaces including cost of tiles fixing in position cutting the tiles to the required size wherever necessary pointing the joints with white/ colour cements neatly curing, finishing including cost of cement mortar etc complete and as directed by the departmental officers. Note:(The colour make and quality shall be approved from the Competant Authority before use)			Sq.M	8.00		
10	MASONRY WORK						

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

10.1	Provision-Brick work in cement mortar 1:5(One of cement and Five of sand) using chamber burnt Second class Table moulded stock bricks of size 9"x 4 1/2"x 3" having minimum average crushing strength of 50Kg/sqcm for super structure in the following floors including labour for fixing the doors ,windows and ventilator frames in position fixing of hold fast ,scaffolding ,curing etc complete in all respects complying with relevant standard specifications and drawings..				Cu.M	5.00		
10.2	Brick work in following Cement Mortar using Fly Ash Bricks of 230 x 110 x 75mm size conforming to IS: 12894-1989 Class designation not less 50 kg./sq.cm. average compressive strength in cement mortar 1:5 for load bearing structures for foundation and basement and for superstructure including curing, etc., complete complying with standard specification.				Cu.M	12.00		
11	PLASTERING WORK							
11.1	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.				Sq.M	385.00		
11.2	Provision for retrofit work for sunshade or any ceiling surface - Special Plastering Cement Mortar 1:3 (One cement and Three sand) with water proof compound for a thickness of 12mm in all floors including curing etc.(mixed with water Proof Compound 2 Kg/10Sqm along with approved WPC coats) complete complying with standard specification and as directed by the departmental officers.				Sq.M	100.00		

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

12 PAINTING WORK							
12.1	Painting two coats of newly plastered wall surface with ready mixed weather proof emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.				Sq.M	425.00	
12.2	Painting two coats of newly plastered wall surface with ready mixed emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping of existing surface, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.				Sq.M	400.00	
12.3	Painting over any steel/Iron work with two coats of best quality approved 1st class synthetic ready mixed enamel paint of approved quality etc., complete in all respects complying with relevant standard specification and as directed by the departmental officers. (The quality and shade of paint should be got approved by the Competant Authority before use).				Sq.M	125.00	
13 ROOFING WORK							

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

13.1	Supply- fabrication- erection of MS Tubular sections along with necessary MS plates, cleats, bolts & nuts with good welding. The M.S structure will be applied with one coat of zinc chromate primer and finished paint. Supply – Laying – Fixing of pre coated plain / Tile profile sheet as per approved design including conveyance, loading unloading etc. all complete complying with relevant standard specification and as directed by the departmental officers.			Sq.M	160		
13.2	Supplying and fixing AC sheet roofing with 6mm thick asbestos cement sheets of fully corrugated (grey colour) of approved quality by drilling holes (and not by punching) with necessary 'J' / 'U' bolts and nuts of 8mm dia of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification and as directed.			Sq.M	20		
14	BoreWell Work						
14.1	Borewell-Drilling of 4 1/2" diameter borewell by using Calyx Drill including transporting charges and insertion of casing pipes (Including cost of casing pipe)-all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			RM	50		

Package-06 - Poompuhar Sandalwood Carving Production Centre, Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

14.2	Supply and delivery of clear water vertical wet type submersible pump 40LPM x 50M - suitable for 100mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS9283 /1995 and as amended there after, suitable for operation in AC three phase 415 V+/- 10 %, 50 HZ +/- 5 % --all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			No	1		
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Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

14.3	Supply and delivery of Star-Delta starter confirming to IS 13947, IEC60947-1 and as amended thereafter with suitable KW rating for operation in AC/ Three Phase/50HZ (+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter (65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Miniature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating,Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor and timer - for 10Hp motar - all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			Each	1		
14.4	Labour charges for the erection of submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days. - Above 5.00 HP to 10.00 HP			Each	1		

Package-06 - Poompuhar Sandalwood Carving Production Centre,Kallakurichi

PRICE BID - BILL OF QUANTITIES

Proposed Renovation cum retrofit work for Poompuhar Production Unit (SWCC) at Kallakurichi, Tamilnadu

14.5	Rate for flushing of borewell of 6" dia requiring less than 4 hours operation using drill rods/ hose with required size of pipes for various capacity compressor including transportation, labour, and fuel charges for compressors -all complete complying with relevant standard TWAD specification and as directed by the departmental officers.			1 hour (or) Part there of	3.00		
15	Supply and Fixing of domestic & safety signages - all complete complying with relevant standard specification and as directed by the departmental officers.						
16	Electrical LT,Elv & Illumination works -all complete complying with relevant standard specification and as directed by the departmental officers.						
17	Plumbing and Sanitation works -all complete complying with relevant standard specification and as directed by the departmental officers.						
18	Total for the Above works (Sum of Above)						
19	Add Concessional rate of GOODS & SERVICE TAX @ 18% (CGST at 9%+SGST at 9%) for any Government construction contracts.	18%					
20	Grand Total Including GST@18% (Sum of Sl.no.18 to Sl.no.19)						
	Rupees in Words-						

PROJECT: PROPOSED PHE BOQ FOR PRODUCTION UNIT AT KALLAKURICHI							
SI.No	DESCRIPTION	UNIT	QTY	ITEM RATE IN NUMBERS & WORDS		AMOUNT IN NUMBERS & WORDS	
				SUPPLY	ERECTION	SUPPLY	ERECTION
SUBJECT: PLUMBING AND SANITATION WORKS							
1	Receiving, Installing, testing and commissioning of white color Indian water closet with dual flush open Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	2				
2	Receiving, Installing, testing and commissioning of white color European water closet with dual flush Concealed Cistern with necessary stand, bend, check nut, P-trap (or) S-trap, stop cock etc., solid seat and cover with polythene buffer and flap, CP flanges, CP bolts and nuts, a Pair of chair bracket and painting the brackets with anti corrosive paint with nuts and bolts, wall flanges etc., complete.	Nos	1				
3	supply, Fixing, testing & Commissioning of Rectangular type wash basin white color with single lever sensor tap, 32mm dia.CP bottle trap with extension pipe, 32 mm dia. CP waste Coupling, M.S.wall brackets with a pair of SS screws to support the basin, 1no.15mm CP angle valve with 450 mm long CP inlet connection pipe, CP wall flange all of approved etc.,	Nos	2				
4	CP fittings						
4.1	Pillar cock	Nos	2				

5	Supplying, installing, testing and commissioning of CP single lever mixer unit comprising of diverter & shower unit / spout, with necessary wall flanges etc., complete	Nos	1				
6	Supply,Collecting, fixing, testing and commissioning of CP brass Bib cock with adjustable wall flange for master control in toilets.						
	20 mm dia	Nos	3				
7	supply, checking, storing & fixing 15 mm. dia exposed angular stop cock with 1/2" outlet with wall flange and all accessories,	Nos	3				
8	Supplying, fixing, testing and commissioning of PVC Soil, waste and ventilating pipes (SWR) conforming to IS:13592 /1990 -Type B with rubber ring (conforming to IS : 5382) joints inclusive of all necessary specials like bends, tee, offsets, door bends, junctions, cowls etc., laid under floor /fixed on walls and in pipe shaft with proper pipe support like brackets, hangers, MS grip bolts etc., complete. The support shall be painted with two coats of enamel paint.						
8.1	40 mm for Wash basin drains	Rmt	6				

8.2	50 mm for Washing M/c & Sink	Rmt	3				
8.3	75 mm Waste pipe	Rmt	6				
8.4	110 mm soil pipe	Rmt	6				
9	Supplying, installing, testing and commissioning of PVC Floor trap with 110mm dia inlet and 75mm dia. outlet fixed on a bed of cement concrete with 150 x 150mm stainless steel type grating with threaded cover (Heavy duty type) etc., complete.	Nos	1				

10	<p>Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) up to 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc. with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 and restore the same in original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724. The solvent used shall be of approved make as recommended by the pipe manufacturer. Rate shall include necessary MS supports, clamps, hanging rods, Grip bolts and painting of all supports with 02 coats of enamel paint etc., complete in all respect.</p>						
10.1	20 mm dia	Rmt	6				
10.2	32 mm dia	Rmt	4				

11	Providing, fixing, jointing and testing in position the following U-PVC Pipes as per ASTM D 1785 Schedule 80 and threaded conforming to IS:554, All fittings to be of Schedule 80. . Cut to required lengths including all necessary fittings and specials such as bends, tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure as per IS & suppliers standards. he pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved quality jointing lubricant. The pipes shall be erected plumb in the risers. Erection of the above pipe including cutting, jointing of pipes with necessary fittings, erection of the pipes plumb to vertical, clamping the pipes on to MS Hot dip galvanized clamps, pressure testing of pipes, complete.						
	25 mm dia (I.D)	Rmt	6				
12	Supplying, installing and testing and commissioning of approved make PN 16 class GM ball valves with necessary unions etc., complete in all respect.						
	a) 20 mm dia	Nos	4				
	b) 25 mm dia (Screwed ends)	Nos	2				
13	M.S brackets for the supports of pipes	Kg	10				

	Providing and fixing testing and commissioning of PVC pipe for Risers to IS:13592 of SWR quality Type B, for ground floor buried lines, external buried including all fittings like tees, elbows, bends, collars, coupling, brackets, clamps, fasteners, , etc jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste complete. The pipes shall be fixed properly aligned vertical with suitable Galvanized MS pipe clamps. Work to include making necessary holes in the masonry walls etc.. and making good the damaged portions with mortar filling with 1:4 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified. ,						
14.1	75mm dia	Rmt	3				
14.2	110mm dia	Rmt	3				
15	Provision for Flushing the Existing borewell up to 30M depth- Clearing and flushing the bore and refit/refurbish the same along with existing pipe available.. including conveyance, loading/unloading,labour, etc. all complete complying with relevant standard specification and as directed by the departmental officers.	Set	1	0.00		0	
TOTAL -Sum of Above items							

ELECTRICAL & ELV BOQ FOR PRODUCTION UNIT,KALLAKURICHI

S.No.	Description	Unit	Qty	Item Rate in Numbers and words		Amount in Numbers and words	
				Supply	Erection	Supply	Erection
1.0	POINT WIRING:						
1.1	Supply, installation, testing and commissioning of point wiring using 3 runs of 1.5 sqmm FRLS (P, N & E) PVC insulated, unsheathed,multistrand copper conductor wires in 20mm dia PVC conduit. The rate shall include wall cutting, plastering, supply of wires, conduits, junction box, termination accessories, 16G metal switch boxes modular type one/two way 6A switch/sockets,suitable front plate as required.						
a)	Primary Point(one way)	Point	10				
b)	secondary Point	Point	6				
c)	Mirror light point (one way)	Point	3				
d)	Two way point light point	Point	2				

e)	one way fan point with 1M electronic regulator						
		Point	6				
f)	Call bell point with bell push						
		Point	3				
g)	Flexible spring type cable arrangement LED light point with dimmer control						
		Point	3				
2.0 PRIMARY CIRCUIT WIRING:							
2.1	Supply, Wiring testing & commissioning of 2R 2.5 with 1R 1.5sqmm PVC insulated copper conductor 1100 volts grade FRLS wire in suitable concealed heavy duty PVC conduit with all accessories as required for lighting & small power circuit mains from DB to switch/socket board.	Mtrs	10				
2.2	Supply, Wiring testing & commissioning of 2R 4.0 with 1R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for 16A power circuit mains from DB to socket.	Mtrs	10				
2.3	Supply, Wiring testing & commissioning of 4R 6.0 with 2R 2.5sqmm PVC insulated copper conductor 1100 volts grade FRLS in suitable concealed heavy duty PVC conduit with all accessories as required for DB incomer.	Mtrs	6				

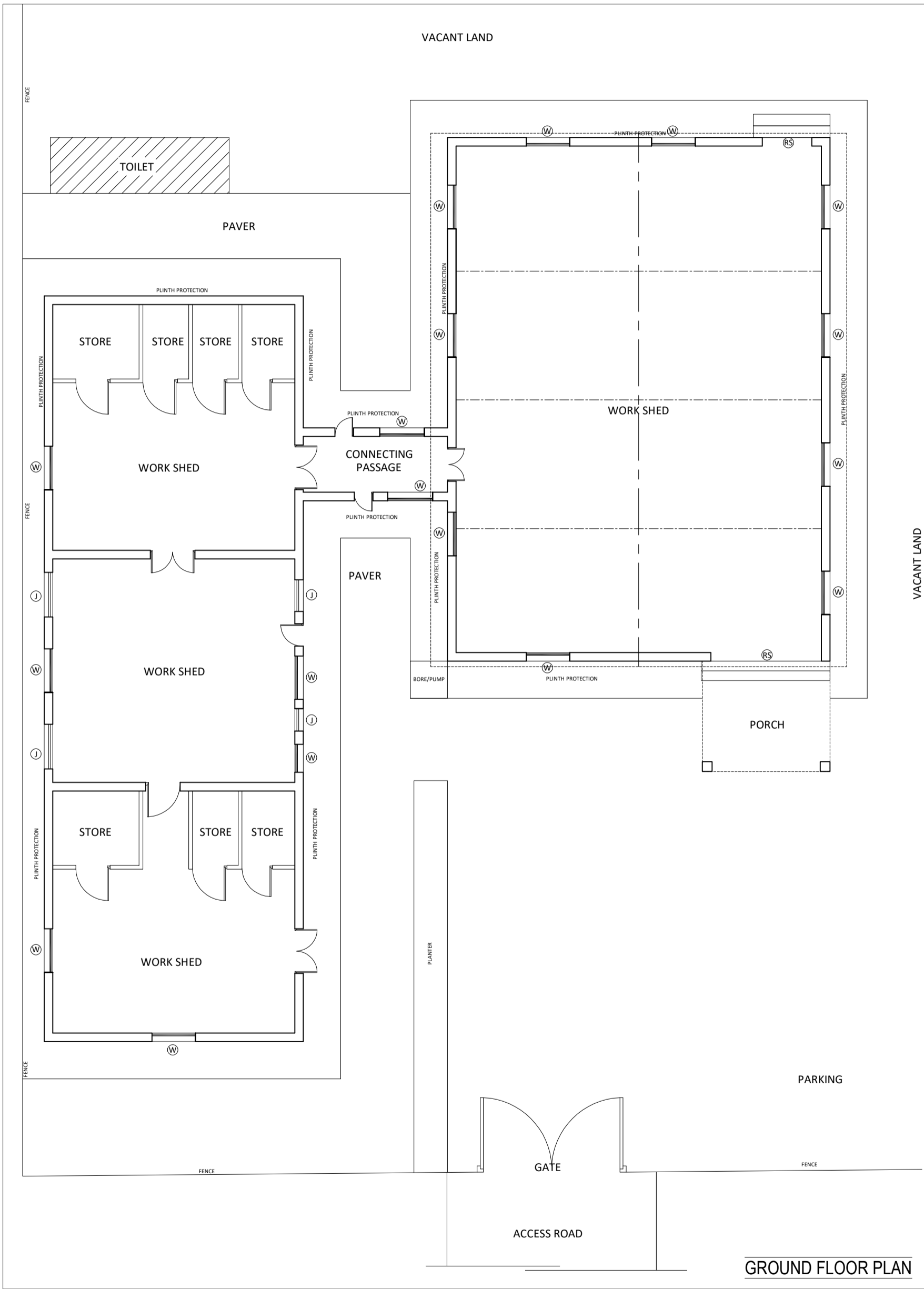
3.0	POWER OUTLETS:						
3.1	Supply, fixing, testing & commissioning of 6A 5pin modular type socket & switch located at switch box location with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	6				
3.2	Supply, fixing, testing & commissioning of 16A 5pin modular type dependent socket & switch with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	6				
3.3	Supply, fixing, testing & commissioning of 6/16A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	2				
3.4	Supply, fixing, testing & commissioning of 20A modular type dependent Switch & socket with suitable front plate GI back box. The cost of including cutting and filling chases, termination, identification etc as required.	Sets	2				
4.0	CABLE & TERMINATION:						
4.1	Supply, laying, testing & commissioning of following cables with termination using suitable glands & lugs.						
a	4Cx16sqmm A2XFY cable						
		Mtrs	15				
b	Termination for above cable						
		Ends	4				

5	Luminaires						
5.1	Supply, Installation of the following LED light fixtures & fans with necessary accessories such as fasteners, downrods, M.S.pipes & all accessories as required at site.						
a	20W LED tube light	Set					
b	LED-Mirror light (1X8W)	Set	9				
c	Flexible spring type cable arrangement LED light point with dimmer control	Set	1				
d	1200mm dia Ceiling Fan	Set	3				
e	Wall Mounted fan	Set	6				
f	40W Water proof street light with wall bracket	Set	3				
			2				

	g bulkhead fitting	Set				
			2			
	h Buzzer	Set				
			3			
	6.0 CONDUITS:					
7.1	Supply and laying following sizes of Heavy duty PVC conduits concealed in the ceiling, floors, wall etc with all accessories like bends, couplers, pullwire etc including cutting and filling the chases					
a	40mm Dia					
		Mtr	3			
b	25mm Dia					
		Mtr	3			
c	19mm Dia					
		Mtr	3			
	7.0 EARTHING					
	Supply, Wiring testing & commissioning of 2R 6.0 sqmm PVC insulated copper conductor in suitable concealed heavy duty PVC conduit with all accessories as required for main earthing	mtr	5			

8	Protection Gate made with MS tubes & angles,weld mesh along with required vertical support as per the approved shop drawings and as directed by the departmental officers - which includes handle,hinges and locking facilities,other accessories,Labour Charges for fixing, Conveyance,base concrete,Painting,etc-complete in all respects complying with relevant standard specification.	KG	180			
9	provision for the Electrical repair work to refabrishing the existing electrical conduit or fixtures/ items - labour charges for fixing,modifications as per standard specifications etc., complete in all respects					
9.1	Electrician - class 1	Nos	2			
9.2	Electrician - class 2	Nos	2			
10	SUB TOTAL					
11				GRAND TOTAL (Sum of above Items)		

SIGNAGE BOQ FOR PRODUCTION UNIT,KALLAKURICHI					
SL.NO	DESCRIPTION	QTY	UNIT	Item Rate in Numbers and words	Amount in Numbers and words
	SIGNAGES				
1.0	Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut. PVC non-reflective self adhesive vinyle painted foam board along with directional FR Reflective tape, complete with mirror fasteners.				
a.	Signages with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm * 30cm and shall be fixed at the height of 2mts, from finished floor near Exit.	1	Nos.		
2.0	Floor & room indentification signage (i.e, Drilling lathe,Store,etc..) at each stair enclosure on every floor, indicating the floor number in words,work shops,toilets,etc.. lettering size shall be 7.5cm with contrasting colour from back ground. Size shall be 15cm * 60cm.	4	Nos.		
3.0	Providing and fixing in position the signage of " Incase of fire do use this " Size 8" x 8"	1	Nos.		
4.0	Providing and fixing in position the signage of " Fire Extinguisher " to be pasted immediately above the every extinguisher. Size 4" x 4"	4	Nos.		
5.0	Providing and installing in position - the following type of sign boards made out of flex sign board with fixing supports and MS frames,screws,labour,etc..Complete	3.3	Sq.M		
TOTAL FOR SIGNAGE					



GROUND FLOOR PLAN

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PROJECT TITLE		
PROPOSED / RETROFITTING WORK - PRODUCTION UNIT AT KALLAKURICHI FOR POOMPUHAR.		
DRAWING TITLE		
PRODUCTION UNIT GROUND FLOOR PLAN		
DATE	SCALE	ORIENTATION
06.12.2021	NTS	NORTH
DRAWING NO - RC/POOM/2122/PU/KK-DRF-01		
ARCHITECTURAL CONSULTANT		

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