M/s Megha Food Cooperative Society

(M/s Mendipathar Multipurpose Cooperative Society – Implementing Agency)

Office: MMCS, P.O. Mendipathar, Mendipathar, North Garo Hills, Meghalaya – 794110

Phone: 03659-268311, Mobile: +91 86065 50118 Email: mmcsmushroom@gmail.com

TENDER DOCUMENT

TENDER REF.NO.: SFURTI-I/MGH-MMCS/CIVIL-001/2021-22

& AMENITIES FOR THE COMMON FACILITY CENTRE OF OYSTER MUSHROOM CLUSTER

Bid Particulars	Details
Tender Reference no	SFURTI-I/MGH-MMCS/CIVIL-001/2021-22
Date and Time of release of Tender	26-05-2021 By 10:00 AM
Date and Time of Pre-Bid Meeting	01-06-2021 By 11:00 AM
Last date and Time of Submission of Bid	15-06-2021 By 2:00 PM
Date and Time for Opening of Technical Bid	16-06-2021 By 11:00 AM
Place of Tender submission	Mendipathar Multipurpose Cooperative Society (MMCS), P.O. Mendipathar, Mendipathar, North Garo Hills, Meghalaya
	OR
	Indian Institute of Entrepreneurship, Near Games Village, Lalmati, Guwahati – 781029, Assam

TECHNICAL AGENCY

MADHUKAR LIVELIHOOD FOUNDATION

Email: shweta@madhukar.com, website: www.madhukarfoundation.com

CONTENTS

S. No.	CLAUSE	PAGE NUMBER
1.	PREAMBLE SCOPE OF WORK QUALIFICATION CRITERIA LANGUAGE OF THE TENDER PURCHASE OF TENDER DOCUMENT	4
2.	SCOPE OF WORK	5
3.	QUALIFICATION CRITERIA	5
4.	LANGUAGE OF THE TENDER	6
5.	PURCHASE OF TENDER DOCUMENT	7
6.	PREBID MEETING	7
	CLARIFICATION IN THE TENDER DOCUMENT	7
8.	AMENDMENT OF TENDER DOCUMENT	7
9.	AUTHORISATION OF THE TENDERER	8
	SITE VISIT	8
11.	SPECIFIC INSTRUCTIONS TO BIDDERS/CONTRACTORS SUBMISSION OF TENDER IN TWO COVER SYSTEM	8
12.	SUBMISSION OF TENDER IN TWO COVER SYSTEM	9
	FORMAT AND SIGNING OF BIDS	11
14.	SEALING AND MARKING OF THE BIDS EARNEST MONEY DEPOSIT	11
15.	EARNEST MONEY DEPOSIT	12
	VALIDITY	13
	OPENING AND EVALUATION OF THE TENDER	13
18.	PRICE OFFER	14
19.	EVALUATION OF THE PRICE	14
	AWARD OF CONTRACT	14
21.	SECURITY DEPOSIT	15
22.	AGREEMENT	15
	ISSUE OF WORK ORDER	15
	DEFECT IDENTIFICATION & RECTIFICATION	16
25.	EMPLOYMENT OF TECHNICAL ASSISTANTS	16
26.	PAYMENT TERMS	16
27.	PENALTY	17
28.	FORCE MAJEURE	18
29.	TERMINATION OF CONTRACT	18
	GENERAL CONDITIONS	19
31.	ARBITRATION JURISDICTION OF THE COURT	19
32.	JURISDICTION OF THE COURT	19

ANNEXURES

S. No.	ANNEXURE	PAGE NUMBER
1	SITE LAYOUT, SITE PLAN, SECTION WISE BUILDING	22
	DRAWING, ELEVATION, COLUM, BEAM & TRUSSES &	
	BOQ	
II	PART-I (COVERING LETTER)	60
III	DETAILS OF TENDERER	62
IV	ANNUAL TURNOVER STATEMENT	63
V	LIST OF WORKS EXECUTED IN LAST 3 YEARS	64
VI	DECLERATION OF NOT HAVING BLACKLISTED	65
VII	DECLERATION FOR NOT HAVING TAMPERED THE	66
	TENDER DOCUMENT	
VIII	BID SECURITY DECLARATION FORM	67
IX	PART-II (COVERING LETTER)	68
IX (A)	PRICE BID	69
Χ	COMPREHENSIVE PRICE BID	104
ΧI	CHECKLIST OF DOCUMENTS	105

TENDER FOR THE CONSTRUCTION OF INDUSTRIAL WORK SHED BUILDINGS AND AMENITIES FOR OYSTER MUSHROOM CLUSTER

1. PREAMBLE

Ministry of MSME, Government of India has formulated "Scheme of Fund for Regeneration of Traditional Industries (SFURTI)", for the development of traditional and village industries in order to organize the traditional industries and artisans for their growth and long term sustainability, Indian Institute of Entrepreneurship (IIE), Guwahati is one of the Nodal Agencies for the development of clusters under the scheme, undertaking the role of programme fund management, in addition to monitoring and evaluation of project implementation as per the SFURTI guideline of Ministry of MSME, Government of India.

The scheme specifies the following institutional arrangement at the operational level:

- a Special Purpose Vehicle (SPV) be formed to develop and manage the cluster
- an Implementing Agency (IA) is appointed to undertake scheme implementation
- a Technical Agency (TA) is designated to assist and guide the scheme implementation

"Oyster Mushroom Cluster, North Garo Hills, Meghalaya" is one of the approved clusters under the SFURTI scheme of MSME.

M/s. Megha Food Cooperative Society, having registered office at the office of MMCS, P.O. Mendipathar, Mendipathar, North Garo Hills, Meghalaya – 794110, is the Special Purpose Vehicle (SPV) of the Cluster. M/s. Mendipathar Multipurpose Cooperative Society is the Implementing agency of the cluster and M/s. Madhukar Livelihood Foundation is the designated Technical agency for the cluster.

The scheme envisages establishment of upgraded production infrastructure, as the Common Facility Center (CFC), for the production, processing & value addition, packaging and marketing of Oyster Mushroom products and stipulates the building construction and machinery procurement for the establishment of CFC should adhere the General Financial Rules (GFR) of Government of India. Accordingly, the tender procedures are being undertaken for the construction of CFC building works and procurement of machineries.

M/s. Megha Food Cooperative Society, the Special Purpose Vehicle (SPV) of Oyster Mushroom Cluster proposes to establish a Common Facility Centre (CFC) at land patta no. 228 measuring 2 acres (as per Book No. 86341), situated in Jampara, Mendipathar, North Garo Hills, Meghalaya with

the financial assistance from Government of India under SFURTI. The estimated cost of the project is INR 137.00 lakh.

In this context, M/s. Mendipathar Multipurpose Cooperative Society, the Implementing Agency (IA) of "Oyster Mushroom Cluster, North Garo Hills, Meghalaya" having its administrative office at the office of MMCS, Mendipathar, North Garo Hills, Meghalaya – 794110, invites sealed tenders from Civil contractors in "Two Cover System" for the "Construction of Industrial Work Shed buildings and amenities for the Common Facility Center for Oyster Mushroom Cluster" through transparent bidding process. The Tender notification has been published fixing the date of opening of tender as 16.06.2021 at 11:00 AM.

2. SCOPE OF WORK

- a) The successful tenderer should undertake construction of industrial work shed buildings including Spawn Lab and amenities at land patta no. 228 measuring 2 acres (as per Book No. 86341), situated in Jampara, Mendipathar, North Garo Hills, Meghalaya as per the drawings and Estimate/Bill of Quantity (BoQ) given in Annexure-I.
- b) Tender documents may be purchased on payment of non-refundable fee of INR 1500.00 per set in the form of account payee demand draft/ cashier's cheque, drawn on a scheduled commercial bank in India, in favour of Mendipathar Multipurpose Cooperative Society, payable at Mendipathar. The same fee can also be paid along with the EMD with the tender document, if using downloaded tender documents from the web site mentioned.
- c) The successful tenderer must complete the construction of industrial work shed buildings and amenities within 90 days from the date of receipt of Work Order. The timeline for the cumulative percentage of work to be completed based on the value of work shall be as given below:

Days	Percentage of work to be completed
1 st 30 days	Min. 20% of total contract value
2 nd 30 days	Min. 50% of total contract value
3 rd 30 days	100% of total contract value

3. QUALIFICATION CRITERIA

S. No.	Clause	Qualification Criteria	Supporting Documents
1	3 (a)	The tenderer should be a registered legal entity	In case of Private / Public Limited Companies,
2	3 (b)	The tenderer should be a Civil contractor	i) Valid registration of GST is required
3	3 (c)	The tenderer should have at least 5 years of experience (as on 31st March 2021) as Civil contractor	i) Work orders issued by clients ii) Performance / Completion certificate issued by clients iii) List of construction works executed in last 5 years as per Annexure-V
4	3 (d)	The tenderer should have been awarded and successfully completed at least three works of similar nature in the last 5 years (as on 31st March 2021)	 i) Work orders issued by clients ii) Performance/ Completion certificate issued by clients Similar experience of the Bidder related to this assignment. Experience in designing, building and construction of an housing project, Industrial Parks/Zones, industrial unit, processing unit, Integrated Area Development, township, multistorey buildings, community housing including Roads & Drainage, Water Supply, Sewerage and electrical works,
5	3 (e)	The tenderer should have reported an Average Annual Turnover of Rs.3.00 Crores in the last five consecutive financial years i.e. 2016-17, 2017-18, 2018-19, 2019-20 and 2020-21	 i) The average annual turnover statement duly certified by Chartered Accountant as per Annexure IV ii) The Annual Report/ certified copies of Balance Sheet, Profit & Loss statement along with schedules for the last 5 consecutive financial years
6	3 (f)	The tenderer should not have	The declaration form as per

been blacklisted for supply of	Annexure VI should be enclosed
any items or services by any	
Government department/	
agency	

4. LANGUAGE OF THE TENDER

The Tender prepared by the tenderer as well as all correspondences and documents relating to the Tender shall be in English language only. If the supporting documents are in a language other than English/Assamese/ Garo/ Khasi, the notarized translated English version of the documents should also be enclosed.

5. PURCHASE OF THE TENDER DOCUMENT

- a) Tender documents may be purchased on payment of non-refundable fee of INR 1500/- per set in the form of account payee demand draft/ cashiers cheque, drawn on a scheduled commercial bank in India, in favour of Mendipathar Multipurpose Cooperative Society, payable at Mendipathar. The same fee can also be paid along with the EMD with the tender document, if using downloaded tender documents from the web sites mentioned.
- b) Tenderer may also download the tender documents from the web site www.mbda.gov.in or northgarohill.gov.in or www.iie.gov.in and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned above. The tenderer should give a declaration for not having tampered the Tender document downloaded from Internet (as per Annexure VII).
- c) The tender document can be downloaded from 26.05.2021 to 15.06.2021.
- d) Tenderers shall ensure that their tenders, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, are dropped in the tender box located at "Mendipathar Multipurpose Cooperative Society, Mendipathar, North Garo Hills, Meghalaya-794110" or at "Indian Institute of Entrepreneurship, Near Games Village, Lalmati, Guwahati 781029" on or before the closing date and time, failing which the tenders will be treated as late and rejected.
- e) TENDER BY POST/ HAND/ COURIER RECEIVED ON OR BEFORE THE DUE DATE AND TIME SHALL BE ACCEPTED. POSTAL DELAY/ DELAY BY COURIER SERVICE ETC. SHALL NOT BE CONDONED AFTER THE DUE DATE AND TIME.

f) The tender documents are not transferable.

6. PREBID MEETING

A pre-bid meeting for providing clarifications to the bidder will be held ON-LINE unless specified otherwise, on 01.06.2021 at 11.00 am in the office of M/s. Mendipathar Multipurpose Cooperative Society, P.O. Mendipathar, North Garo Hills, Meghalaya during which the prospective tenderers can get clarifications about the tender. The link for the meeting will be sent one day in advance to the prospective bidders. The tenderers shall send their queries – both technical and commercial in writing over email (mmcsmushroom@gmail.com) at least two days prior to the pre-bid meeting date. The tenderers are advised to check www.mbda.gov.in or northgarohills.gov.in or www.iie.gov.in for up-to-date information like change in date / venue etc., of pre-bid meeting as IA may not be able to identify and communicate with the prospective bidders at this stage.

In addition to pre-bid conversation history any offline queries / clarifications / information will be uploaded on mmcs.org.in against the Tender ID under tab 'Pre-Bid'. Any modification to the Tender, which may become necessary as a result of the pre-bid meeting, will be uploaded on the website against the Tender ID. Bidders are requested to update themselves by visiting www.mbda.gov.in or northgarohills.gov.in or www.iie.gov.in frequently. It may be noted that no queries will be entertained after the expiry of pre-bid meeting. Accordingly, it is requested that bidder along with their associates shall take part in the pre-bid meeting to ensure that tender requirements are clearly understood by all the stakeholders. Non attending of pre-bid meeting is not a disqualification.

7. CLARIFICATION ON THE TENDER DOCUMENT

The tenderers may ask for queries in any of the clauses in the tender document before 48 hours of the pre-bid meeting. Such queries may be sent in writing to "M/s. Mendipathar Multipurpose Cooperative Society, Mendipathar, North Garo Hills, Meghalaya- 794110" or by e-mail to mmcsmushroom@gmail.com. IA will upload the clarification on www.mbda.gov.in and northgarohills.gov.in. It is binding on the part of tenderers to check the above said websites for any amendments or clarifications posted during the entire tender process. It may be noted that no queries will be entertained after the expiry of pre-bid meeting.

8. AMENDMENT OF TENDER DOCUMENT

IA whether on its own initiative or as a result of a query, suggestion or comment of an Applicant or a Respondent, may modify the tender document by issuing an addendum or a corrigendum at any time before the opening of the tender, with the concurrence of the tender committee. Any such addendum or corrigendum will be uploaded on www.mbda.gov.in or northgarohills.gov.in or www.iie.gov.in and the same will be binding on all Applicants or Respondents or Tenderers, as the case may be.

9. AUTHORISATION OF THE TENDERER

The Tender should be signed on each page by the tenderer or by the person who is duly authorized for the same by the tenderer.

10.SITE VISIT

The tenderer, on his/her own responsibility, risk and cost, is advised to visit and examine the site of works (land patta no. 228 measuring 2 acres (as per Book No. 86341), situated in Jampara, Mendipathar, North Garo Hills, Meghalaya) and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for the work(s) as mentioned in the Annexure (I).

11.SPECIFIC INSTRUCTIONS TO BIDDERS / CONTRACTORS FOR QUOTING OF RATES

- a) The contractors are requested to read the detailed specification and quote the rates clearly in the Price bid. Quoting the rates in the Price bid will only be taken up for comparison and shall be final.
- b) The tenders invited are based on item wise rates mentioned in the estimate of works/BoQ. Any lumpsum deductions or increase or rebate offered either in the tender or in the covering letter or at any portion of the tender will be ignored and only the rates offered in the Price bid alone will be taken as valid rates and taken up for tender comparison. Rates or Lumpsum amounts for items not called for shall not be included in the tender. Any alteration made by tenderer in the contract form, the conditions to Contract, the drawings, specification, or quantities accompanying the same will not be recognized and if any such alterations are made the tender will be void.

- c) The Tenderer/ contractor shall employ an independent Architect and Structural Engineer to provide detail architectural, design, documentation & engineering services. Such services will include but not limited to civil engineering drawings, structural drawings, MEP engineering drawings, interior design drawings, 3D design etc. The civil contractor will engage the structural engineer who will prepare the structural drawings for columns beams and trusses and take into account the soil conditions requirements for the earthquake zone and wind velocity. The drawings shall be certified for compliance of all applicable standard and las for the area. Roofing will be waterproof and to sustain the load of 20 mm hailstorm or higher as maybe required and applicable for the area. The outline drawings of the building shall be provided to the Tenderer.
- d) The tenderer / contractor will make his/her/their own arrangements to procure and use ISI Brand Cement and ISI Brand steel and other materials as required for the work.
- e) It should be clearly understood that the rate quoted by the tenderer / contractor is inclusive of incidental charges such as conveyance, loading, unloading, stacking at site and testing charges etc., complete.
- f) The tenderer/ Contractor shall employ independent chartered engineer/ architect for issuance of phase wise completion certificate, final completion certificate and defects rectification certificate.
- g) The tendered/ contractor shall employ technical expert for detail design, planning and documentation of process flow of each section planned in the oyster mushroom CFC.
- h) The tenderer / Contractor should strictly follow above instructions without fail.

12.SUBMISSION OF TENDER IN TWO COVER SYSTEM

- a) Every page of the terms and conditions of the tender document should be signed and enclosed with the tender, in token of having accepted the tender conditions. Failing which the tender will be rejected summarily.
- b) Tenders should be submitted in two parts:
 - i. Part I will cover technical bid and
 - ii. Part II will cover price bid

- c) Tenderers should ensure submission of all documents pertaining to Part-I and Part II proposals separately as per the Check list given in Annexure -XI.
- d) Tenderers are requested to place Part I and Part II documents in separate sealed covers. Part I cover to be superscripted as "Part I Technical bid" and Part II cover to be superscripted as "Part II Price bid" respectively, mentioning the name and address of the Tenderer in each of the both covers. These two sealed covers (Part I and Part II) must be placed in a single outer cover superscripted as "Tender for the construction of work shed buildings and amenities for Oyster Mushroom Cluster" and addressed to "M/s. Mendipathar Multipurpose Cooperative Society, Mendipathar, North Garo Hills, Meghalaya- 794110" or "Indian Institute of Entrepreneurship, Near Games Village, Lalmati, Guwahati 781029" mentioning the name and address of the Tenderer in the outer cover. Tenders shall be submitted in sealed cover and unsealed tenders would summarily be rejected.
- e) Tenders should be dropped only in the tender box kept at the office of "Mendipathar Multipupose Cooperative Society, Mendipathar, North Garo Hills, Meghalaya- 794110" or "Indian Institute of Entrepreneurship, Near Games Village, Lalmati, Guwahati 781029" on or before 02.00 PM on 15.06.2021. Tenders will not be received by hand.
- f) Alternatively, the tenders can be submitted through registered post so as to reach the above address on or before 02.00 PM on 15.06.2021. Tenders received after the specified time will not be considered and IA will not be liable or responsible for any postal delays.
- g) A tender once submitted shall not be permitted to be altered or amended.

13.FORMAT AND SIGNING OF BIDS

- a) The bidder shall prepare three copies of the bid (one original and two duplicate), clearly making them "Original Bid" and "Duplicate copy of Bid" respectively. In the event of any discrepancy between them, the original shall govern.
- b) The original and the copy of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- c) Any interlineations, erasures or overwriting in the bid shall be valid only if they are initialed by the person or persons signing the bid.

- d) The front page of the bidding documents, containing the signature and date of the officials dispatching the documents and the seal of that office must be written in original by the bidder along with the original copy of the bid, failing which the bid is liable to be rejected.
- e) PRICE BID TO BE SUBMITTED IN ORIGINAL ONLY.

14. SEALING AND MARKING OF THE BIDS

- a) The bidder shall seal the original and the duplicate copy of the bid in separate envelopes, duly marking the envelopes as "Original" and Duplicate" respectively. These envelopes shall then be sealed in an outer envelope. (In case more than two copies are required as per specific stipulation in the Schedule of Requirements, the copies of the bids shall be marked accordingly, like "Original", "Duplicate", "Triplicate" and so on. Each copy of the bid shall be sealed in a separate envelope and these envelops shall then be sealed in an outer envelope).
- b) The inner and outer envelopes shall be:
 - i. addressed to the Mendipathar Multipurpose Cooperative Society at the address given in the Clause 12(e).
 - ii. bear the TENDER NUMBER and the words "DO NOT OPEN BEFORE" (The time and date of bid opening, as specified in the Clause 12(e) shall be indicated here).
 - iii. Each inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "Late" or if the tender is cancelled.
 - iv. If the outer envelope is not sealed and marked as required by Clause 13 (b), MMCS will not assume any responsibility for the bid's misplacement or premature opening.
 - v. Bids sent by Telegram, Telex, cable or facsimile are not acceptable and will be rejected.

15.EARNEST MONEY DEPOSIT

a) EMD of Rs. 2,74,000/- (Rs Two Lakh Seventy Four Thousand only) equivalent to 2% of the estimated project cost for General category and in case of SC/ST will be 1,37,000/- (Rs One

Lakh thirty-Seven Thousand only) equivanelt to 1% of the estimated project cost to be paid in the form of Demand Draft of a scheduled bank in the name of secretary, Mendipathar Multipurpose Cooperative Society, valid for 60 days from the date of opening of the tender. EMD of the unsuccessful bidders shall be refunded without any interest at the earliest after finalization of the purchase of concerned item.

- i. The EMD will be returned to the BIDDER(s) whose offer is not accepted by Mendipathar Multipurpose Cooperative Society within one month from the date of the placing of the final order(s) on the selected BIDDER(s). In case of the BIDDER(s) offer is accepted the EMD will be returned on submission of Bank Guarantee as Security Deposit (SD). However, if the return of EMD is delayed for any reason, no interest / penalty shall be payable to the BIDDERs.
- ii. The successful BIDDER, on award of contract/ order, must send the contract/ order acceptance in writing, within 15 days of award of contract / order failing which the EMD will be forfeited.
- iii. The EMD shall be forfeited: In case a successful BIDDER fails to furnish the Security Deposit.
- b) The tenderer should submit "BID SECURITY DECLARATION" as per the format given in Annexure VIII, failing which the bid is liable for rejection.
- c) If the tenderer emerges as the successful bidder and after subsequent issuance of letter of acceptance by the IA, failure to sign the agreement, to remit the Security Deposit or to execute the contract as per tender conditions, will result in blacklist of the firm upto a maximum period of 3 years and the EMD/ Bid Security shall be forfeited.

16.VALIDITY

- a) The rate quoted in the Tender should be valid for the acceptance by the IA for a minimum period of 90 days from the date of opening of the Tender.
- b) The accepted rate of the successful tenderer is valid till the entire contract is fully completed. Escalation in the rates will not be entertained under any circumstances.

17.OPENING AND EVALUATION OF THE TENDER

- a) The tender box will be closed at 2.00 PM as per the office clock on 15.06.2021 and the received tenders in the tender box will only be opened. Tenders received after specified date and time will not be accepted. The Tender will be opened by the Tender committee on 16.06.2021 at 11.00 AM in the presence of the available Tenderers/ representatives of the Tenderers who choose to be present. The Tenderers or their authorized agents are allowed to be present at the time of opening of the tenders.
- b) Tender Committee will inform the attested and unattested corrections, before the Tenderers and sign all such corrections in the presence of the Tenderers. If any of the Tenderers or agents not present then, in such cases the Committee will open the tender of the absentee Tenderer and take out the unattested corrections and communicate it to them. The absentee Tenderer should accept the corrections without any question whatsoever.
- c) If the date fixed for opening of the tender happens to be a Government holiday, the sealed tenders will be received up to 02.00 PM on the next working day and opened at 11.00 AM on 16.06.2021.
- d) The Technical bid will be evaluated by the tender committee in terms of the qualification Criteria. The committee reserves the right to disqualify any of the tender in case the Committee is not satisfied with the documents furnished.
- e) After the completion of evaluation of technical bids, the tenderers declared as qualified by the Committee, will be informed the date of opening of Price bid (Part II).

18.PRICE OFFER

- a) The Price bid should be kept only in the Part II cover.
- b) The price bid should be prepared as per Annexure-X.
- c) The price should be neatly and legibly written both in figures and words.
- d) In case of discrepancy between the prices quoted in words and figures lower of the two shall be considered.
- e) If a bidder quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- f) Incomplete bid shall be summarily rejected.

- g) Part-II bid should not contain any commercial conditions. Variation in the commercial terms and conditions of the tender will not be accepted.
- h) The price bid shall be inclusive of all seen and unseen cost considering the timeline of work to be completed mentioned in clause 2 (c) above including off season prices of materials etc.

19.EVALUATION OF THE PRICE

- a) The Tender committee will examine for complete, properly signed and error-free nature of the Price bid (Part II)
- b) The comparison of the rates offered shall be based on the total all inclusive rates offered (i.e. sum of all inclusive rate offered for all the tendered items).

20.AWARD OF CONTRACT

- a) The Tenderer who has quoted lowest price (L1) will be issued the 'Letter of Acceptance' by the Implementing Agency.
- b) In unavoidable circumstances, the committee may decide upon resorting to Negotiation with the lowest evaluated responsive bidder. In such cases, the Tenderer who has quoted lowest price (L1) will be invited for negotiations and after finalizing the negotiated rate, Letter of Acceptance will be issued.

21.SECURITY DEPOSIT

- a) On receipt of the Letter of Acceptance from IA, the successful tenderer should remit a Security Deposit (SD) of 110% of the advance amount in the form of Account payee Demand Draft from any Indian Nationalized/Scheduled Commercial Bank or irrevocable Bank Guarantee with a validity period of one year in favour of "Mendipathar Multipurpose Cooperative Society", payable at Mendipathar, within 10 (Ten) working days from the date of receipt of letter of acceptance.
- b) Any other amount pending with IA will not be adjusted under any circumstances, against the Security Deposit if so requested.
- c) Security Deposit amount remitted will not earn any interest.

22. AGREEMENT

The successful tenderer should execute an agreement as may be drawn up to suit the conditions on a non-judicial stamp paper of value, as prescribed in law on the date of remittance of Security Deposit and shall pay for all stamps and legal expenses incidental thereto. In the event of failure to execute the agreement, within the time prescribed, the SD amount remitted by the tenderer will be forfeited besides cancelling the Tender.

23.ISSUE OF WORK ORDER

After payment of Security Deposit and successful execution of the agreement, Work Order will be released within 10 days by the IA. The successful tenderer should complete the construction of industrial work shed buildings and amenities within 90 days from the date of receipt of Work Order.

24.DEFECT IDENTIFICATION AND IT'S RECTIFICATIONS

- a) Defect Liability period shall be 12 months from the date of the completion of work. Any defect arising in the work in guarantee period due to faulty workmanship and faulty materials should be rectified by contractor at his own cost.
- b) Any deficiency in concreting such as cracking, excessive honeycombing, exposure of reinforcement or other fault which entail replacement of the defective part by fresh concrete and whatsoever remedy reasonable required without hampering the structural safely and architectural concept, all at the cost of contractor.
- c) The successful tenderer should submit bank guarantee equivalent to 110% of the advance amount valid for 12 months towards Defect Liability.

25.EMPLOYMENT OF TECHNICAL ASSISTANTS

- a) The tenderer shall employ qualified technical persons at his cost to supervise the work and the tenderer should ensure the presence of the technical persons at the site of work during working hours, monitoring all items of works and paying extra attention to such works as may demand special attention.
- b) A movement register should be opened and maintained for Technical persons employed by the Contractor. The Technical persons should note the arrival and the departure timings every

day along with their initials in a register. Such Register should be produced during inspection of the Inspecting Officers (Tender committee members).

26.PAYMENT TERMS

- a) 10% of contract value will be paid, as advance against bank guarantee on execution of agreement. The Tenderer should produce Bank guarantee for the amount equal to 110% of the advance amount, which should be valid for a minimum period of 12 months. If necessary, the bank guarantee should be extended for the required period as requested by the IA.
- b) 30% of the contract value will be paid on completion of Foundation level works and submission of Stage level completion certificate by a Chartered Engineer, based on the inspection report by Tender Committee.
 - (OR) Alternatively, the bidder may opt for 40% of Contract value on completion of Foundation level works and submission of Stage level completion certificate by a Chartered Engineer, based on the inspection report by Tender Committee, instead of claiming first installment of 10% as advance payment against bank guarantee.
- c) 20% of the contract value will be paid on completion of lintel level works and submission of Stage level completion certificate by a Chartered Engineer, based on the inspection report by Tender Committee.
- d) 20% of the contract value will be paid on completion of roof level works including truss and sheet laying works and submission of Stage level completion certificate by a Chartered Engineer, based on the inspection report by Tender Committee.
- e) The balance 20% and SD will be released only after satisfactory completion of the entire contract based on the inspection report by Tender Committee and submission of Chartered Engineer's work completion & valuation certificate and bank guarantee equivalent to 110% of the advance amount valid for 12 months towards Defect Liability.
- f) IA also reserves the right to recover any dues from the tenderer, which is found on later date, during audit/excess payment, after final settlement is made to them. The successful tenderer is liable to pay such dues to the IA immediately on demand, without raising any dispute/protest.

27.PENALTY

- a) Failure to execute the entire contract within the stipulated time as mentioned in Clause 23, due to delay on the part of the Contractor from the date of issue of work order/ advance payment, as the case may be, will attract a penalty of 1% per week, on the full value of the contract upto a maximum of 5%. Delays, on the part of Contractor, beyond that period will result in cancellation of the Contract.
- b) Implementing agency reserves the right to inspect the site at any point of time during the contract period to ensure the progress and quality of work carried out. During the inspection, if any discrepancies found in the quality of work / material used, the IA, with the approval of the tender committee, reserves the right to order for any rework(s) / replace any item(s) of material, as the case may be, in order to ensure the quality of work / progress as per the contract terms.
- c) All the materials used for construction shall be first use, new, high quality material. Old or Used materials will not be accepted and if found, the decision of Committee, either for rework / replace / deduction in payment shall be binding on the contractor.
- d) Any delay on the part of IA should be intimated to the IA in writing and sorted out immediately without affecting the progress of works.
- e) The bidder must mention its <u>official email ID</u>, <u>detailed courier</u>/ <u>postal address and contact</u>

 <u>number</u> in the bid document. All necessary official communications related to the contract will be sent by the IA on these addresses only throughout the period of contract.

28.FORCE MAJEURE

- a) Force Majeure means an event beyond the control of the bidder and not involving the bidder's fault of negligence and not foreseeable. Such event may include but not limited to the acts of Nature such as fire, flood, epidemic, etc., and other events such as wars, revolutions, quarantine restrictions, etc.
- b) If a Force Majeure situation arises, the bidder shall promptly notify IA of such conditions and the causes thereof through e-mail within 24 hours of such event. Unless otherwise, directed by IA in writing, the bidder shall continue to perform his obligations under the Contract to a reasonably practical extent and shall seek all reasonable alternative means for effective performance of the Contract in time.

- c) The bidder, to the extent rendered unable to perform its obligations or part thereof under the Agreement as a consequence of the Force Majeure Event shall be excused from performance of the obligations. Provided that, the excuse from performance shall be of no greater scope and of no longer duration than is reasonably warranted by the Force Majeure Event.
- d) The bidder should bear its costs, if any, incurred as a consequence of the Force Majeure Event.
- e) The bidders shall be granted, extension of time specified in the contract for the performance of any obligation by such period not exceeding the period during which the relative performance was affected by the Force Majeure Event and permissible under Applicable Law.

29.TERMINATION OF CONTRACT

IA reserves the right to terminate the contract at any time during the validity period on account of non-fulfillment of contract or for any of the reasons.

30.GENERAL CONDITIONS

- a) Conditional tender in any form will not be accepted.
- b) Any notice regarding any matters, to the contractor shall deemed to be sufficiently served, if given in writing to his usual or last known place of business.
- c) Tender committee reserves the right to relax or waive or amend any of the tender conditions.
- d) The successful tenderer shall not outsource/off load either full or part of the work to any other agency / individual.
- e) If the performance of the tenderer is not as per the schedule, then tender committee reserves the right to cancel / reallocate full or part of the contract, at any stage of the contract execution.

31.ARBITRATION

a) In case of any dispute in the tender, including interpretation, if any, on the clauses of the tender or the agreement to be executed, the matter shall be referred by IA / Tenderer to an Arbitrator to be appointed by the Parties hereto by mutual agreement. If no such Arbitrator

CIVIL TENDER

could be appointed by mutual consent, the matter may then be referred to the Director, IIEG

for nominating an Arbitrator, the Arbitration proceedings being governed by the Arbitration

and Conciliation (Amendment) Act 2015.

b) The venue of the Arbitration shall be at the Mendipathar Multipurpose Cooperative Society,

Mendipathar, North Garo Hills, Meghalaya-794110. The decision of the Arbitrator shall be final

and binding on both the parties to the Arbitration.

c) The Arbitrator may with the mutual consent of the parties, extend the time for making the

award. The award to be passed by the Arbitrator is enforceable in the court at Guwahati only.

32.JURISDICTION OF THE COURT

Any dispute arising out of non-fulfillment of any of the terms and conditions of this Agreement or

any other dispute arising out of the arbitration award will be subject to the jurisdiction of the Courts

in the City of Guwahati only.

We agree to the above terms and conditions.

SIGNATURE OF THE TENDERER:

DATE:

NAME IN BLOCK LETTERS:

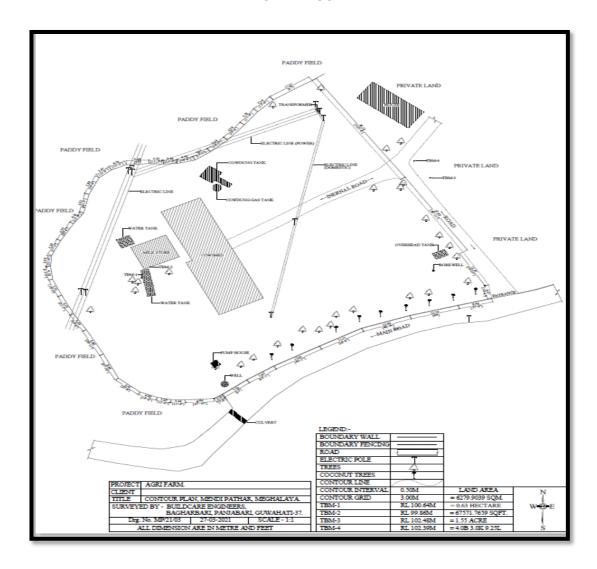
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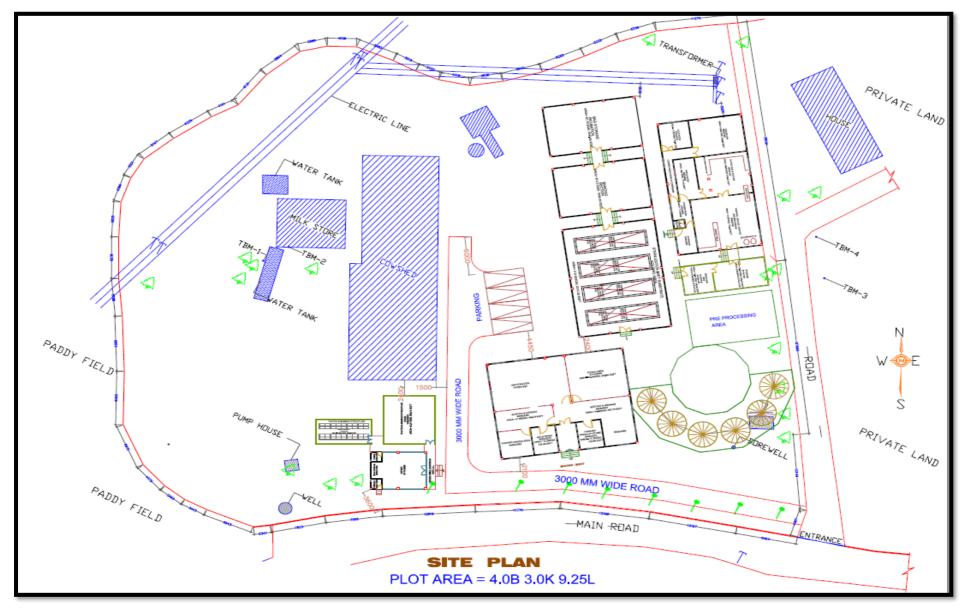
ADDRESS:

CIVIL TENDER

ANNEXURE I

SITE LAYOUT

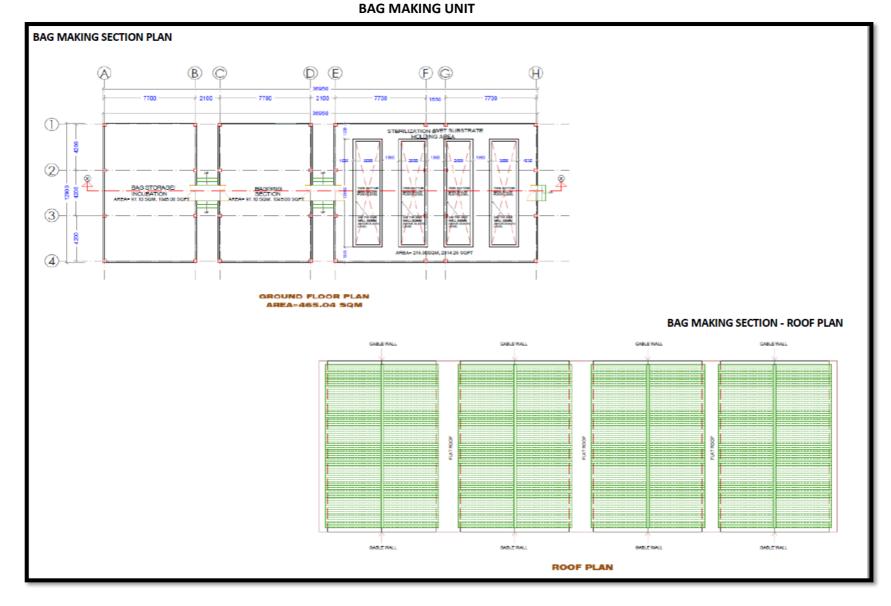


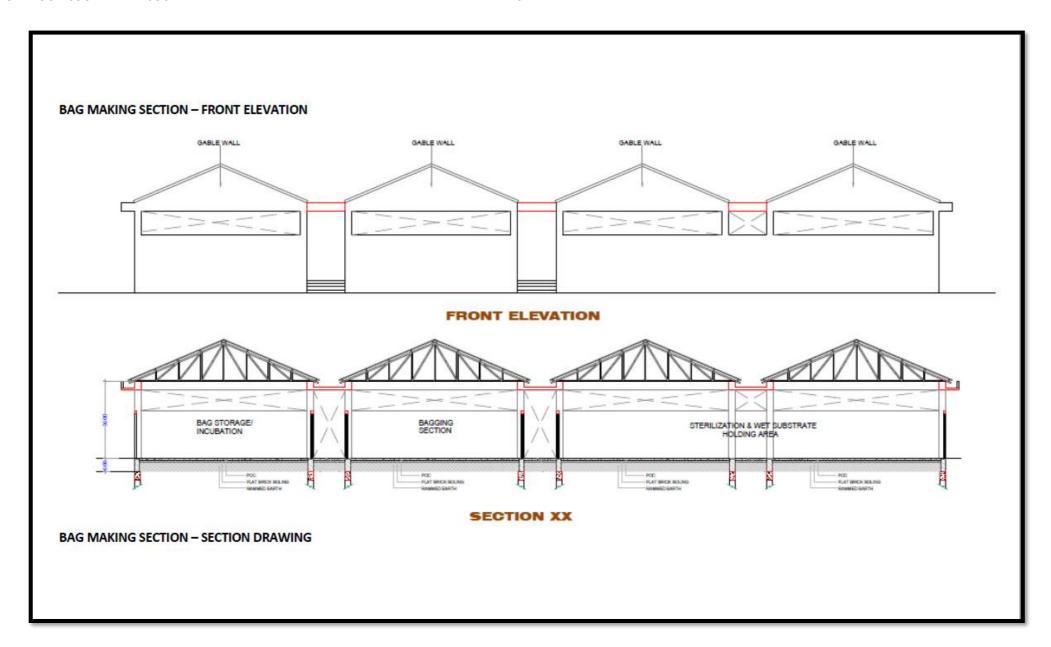


PROPOSED SITE PLAN

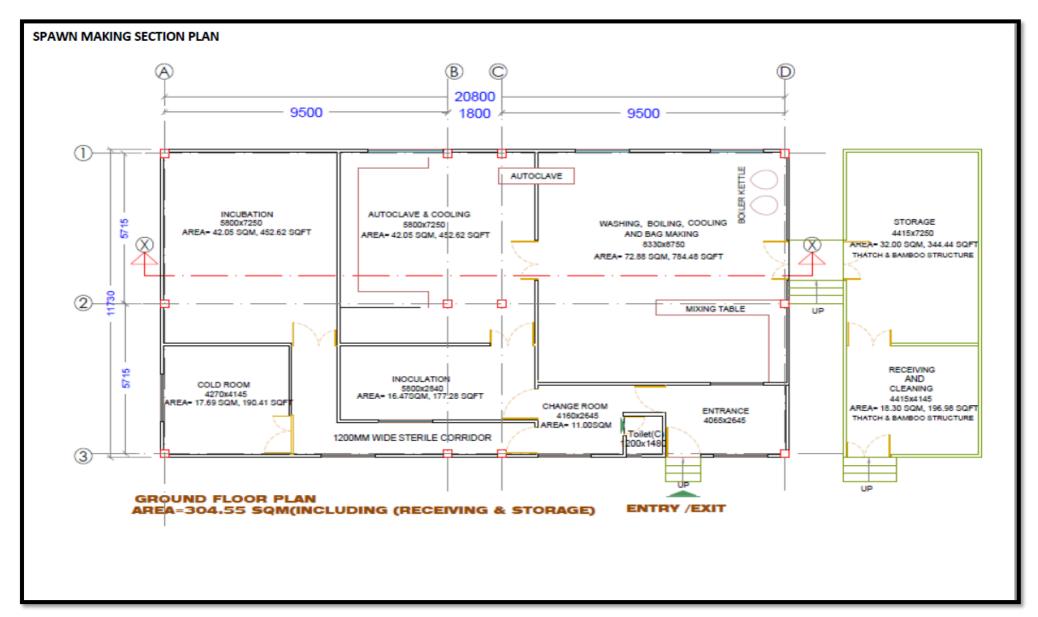
Signature of the tendrer with Seal

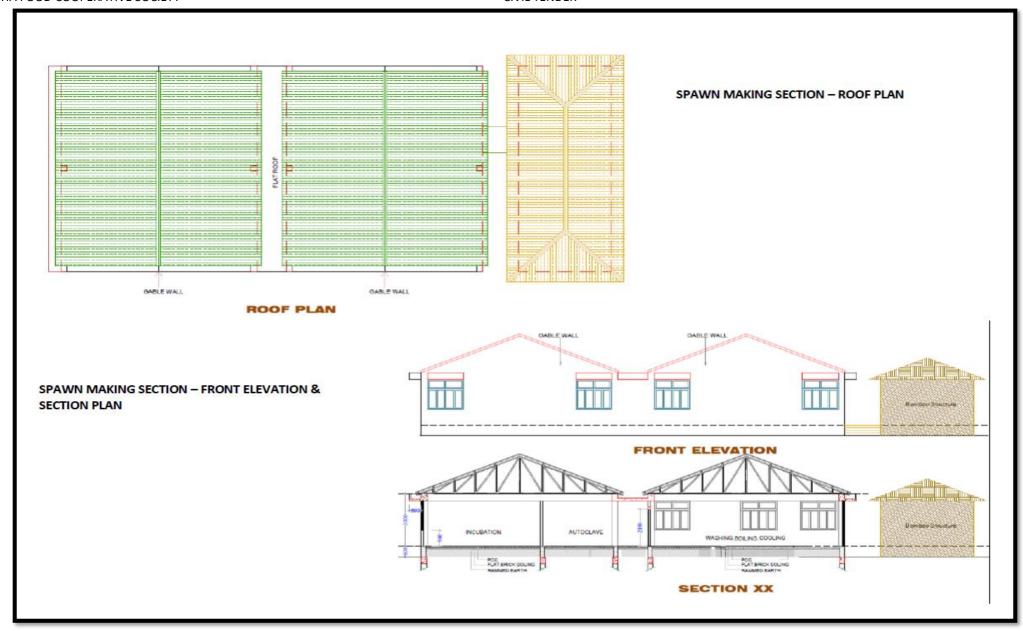
CIVIL TENDER SECTION WISE ELEVATION, FLOOR PLAN AND SECTIONS



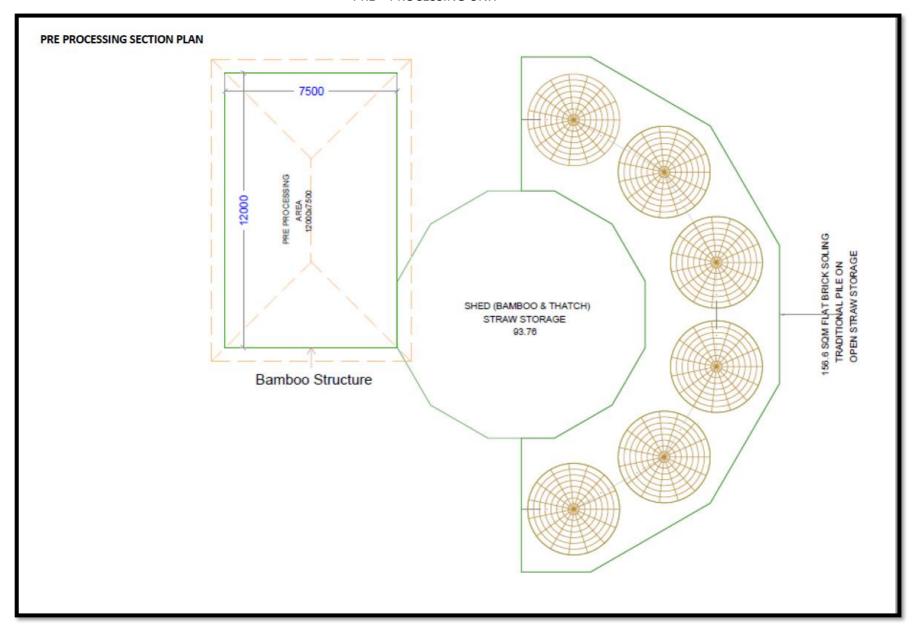


CIVIL TENDER SPAWN MAKING UINT

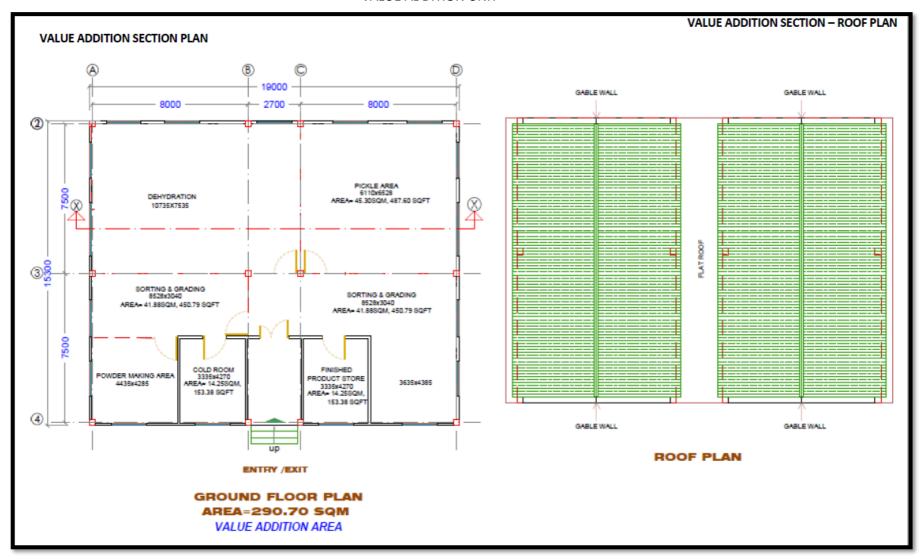


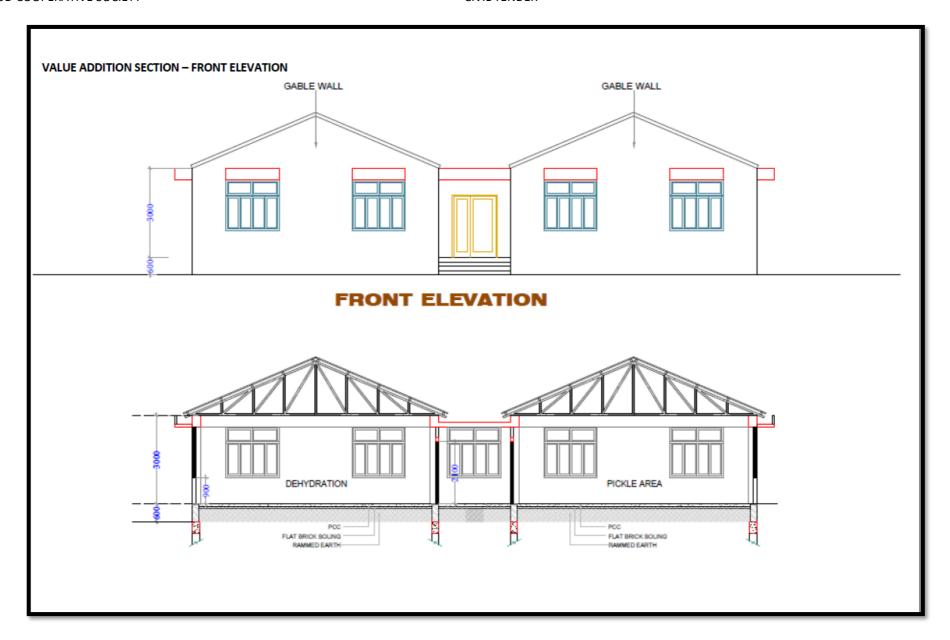


CIVIL TENDER PRE – PROCESSING UNIT

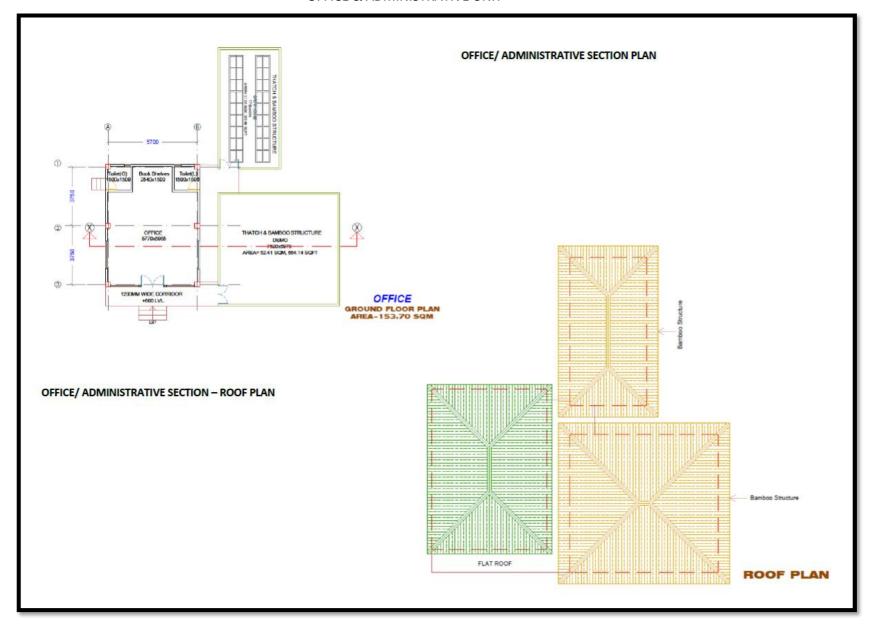


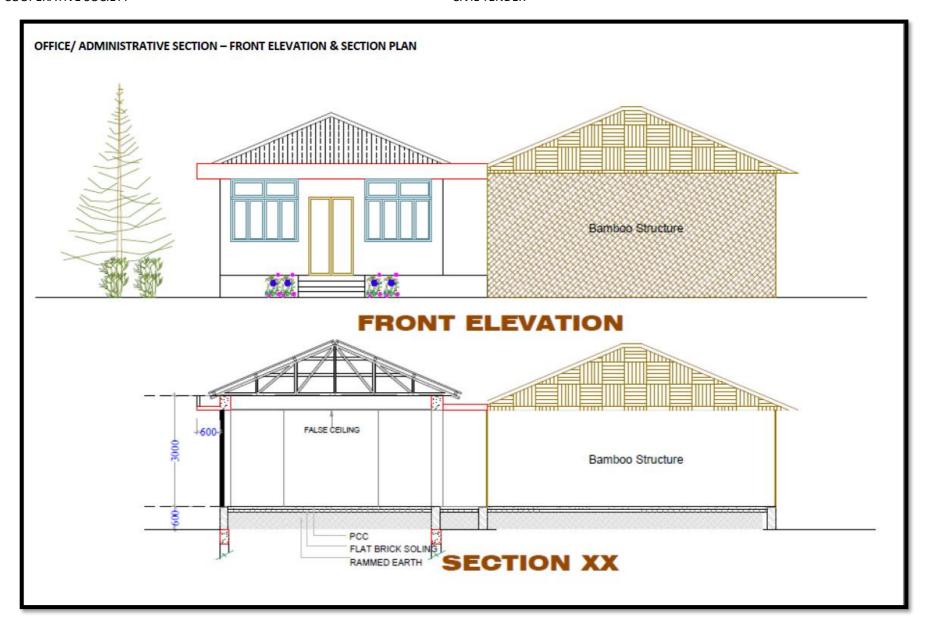
VALUE ADDITION UNIT





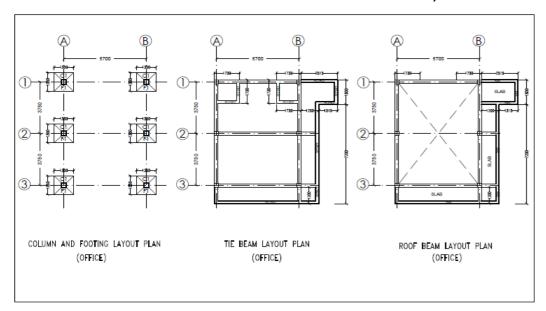
CIVIL TENDER OFFICE & ADMINISTRATIVE UNIT





CIVIL TENDER

COLUMN, BEAM AND TRUSSES



SCHEDULE OF COLUMN:

COLUMN	COLUMN REINFORCEMENT		STIRRUPS	
MARKING SIZE		UP TO ROOF FL LVL.	CONFINING	BALANCE
C1	300x300	4#16	#8 @ 100c/c	#8 @ 150c/c

SCHEDULE OF FOOTING:

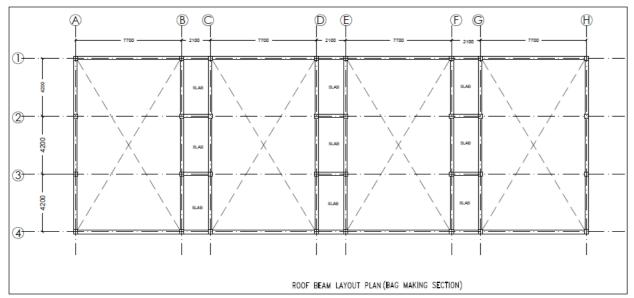
SL NO	FOOTING DESCRIPTION	FOOTING SIZE(LXB)	DEPTH		REINFORCEMENT OF FOOTING		
	DECORAL FICK	0.22(2.2)	D	d1	d2	LONG BARS	SHORT BARS
1.	F1	1350X1350	1500	200	200	#10@150C/C	#10@150C/C
2.	F2	1950X1950	1500	400	250	#10@150C/C	#10@150C/C

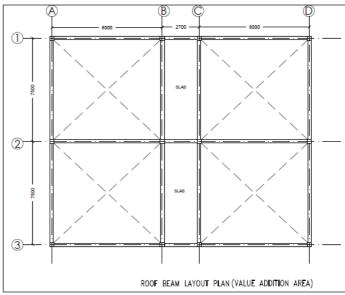
SCHEDULE OF COMBINE FOOTING:

	FOOTING FOOTING REINFORCEMENT OF FOOT DESCRIPTION SIZE(LXB) SLAB THK				NT OF FOOTING
	DEGGINI FIGH	(,	SLAB IRK	LONG BARS	SHORT BARS
1.	FC1	1950X3300	600	#10@150C/C	#10@150C/C

SCHEDULE OF SLAB:

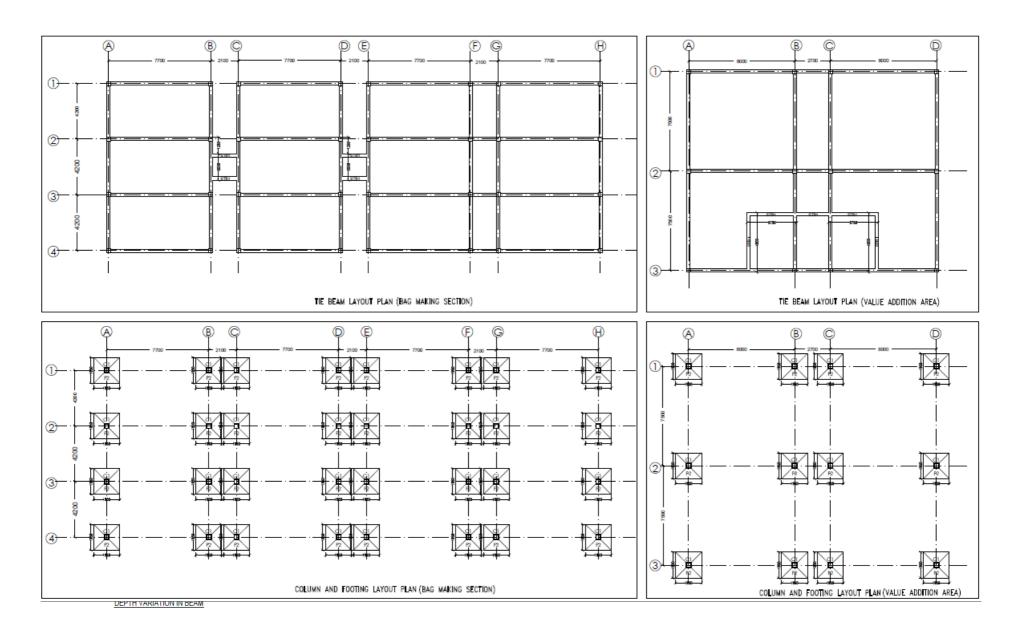
SL NO	DESCRIPTION	SLAB THK	REINFORCEMENT OF SLAB				
			SHORTER SPAN LONGER SPAN SHORTER SPAN LONGER SPAN TOP BARS BOTTOM BARS TOP BARS BOTTOM BARS				
1.	SLAB	100	#8@150C/C	#8@150C/C	#8@150C/C	#8@150C/C	

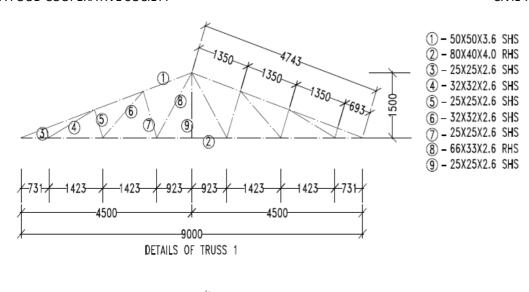


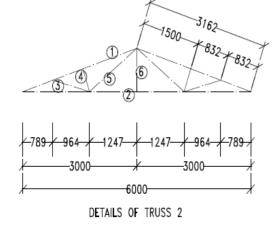


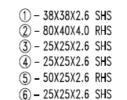
Page **32** of **151**

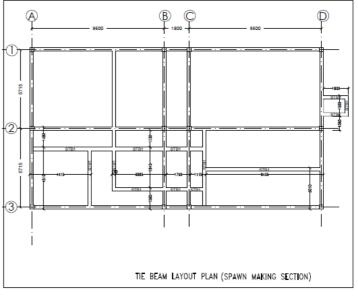
Signature of the tendrer with Seal

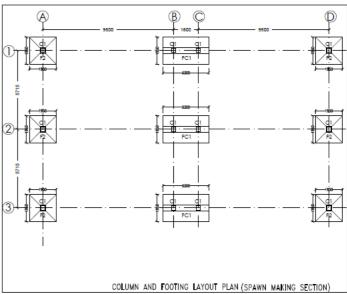












SITE PICTURES





BILL OF QUANTITIES

	ABSTRACT OF	ESTIMATED COST BASED ON ASSAM PWD S	SCHED	ULE OF RATES	FOR CIVIL WORK	(S 2013-14
SI. No.	APWD It. No./Ref	DESCRIPTION	Unit	Quantity	Rate in Rs.	Amount in Rs.
	1	Training and Office room				
1.1		Civil Works				
1.2		Internal Electrical works				
	2	Spawn Making Section				
2.1		Civil Works				
2.2		ThatchStructure				
2.3		Internal Electrical works				
	3	Value Addition Area				
3.1		Civil Works				
3.2		Internal Electrical works				
	4	Bagmaking Section				
4.1		Civil Works				
4.2		Internal Electrical works				
	5	Preprocessing & Hay Stack				
5.1		Civil Works				
5.2		Internal Electrical works				
	6	Demo Hall				
6.1		Civil Works				
6.2		Internal Electrical works				
	7	Grow House				
7.1		Civil Works				
7.2		Internal Electrical works				
8		TOTAL (A)				
9		GST @ 7% on Schedule Items				
10		Total (B)				
11		Contingencies @ 1% of Total (B)				
12		Architect and engineering services and	d supe	rvision @ 5%	, 0	
13		GRAND TOTAL			Ī	

Estimated cost of construction of the GROW HOUSE for OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Civil Works 2013-14.

GROW HOUSE

 $(68.04+74.08)=142.12 \text{ M}^2$

1. Are	ea of Grou	= (68.04 + 74.08))=142.1	2 M ² .		
Ite BOQ	m No. APWD	Description of work	Unit	Qty.	Rate in Rupees	Amount in Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.			·	·
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	68.42		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least 750mm under ground and tied with wire or cane @ 1500 to 2000 c/c at least 3000 TO 4500 above plinth level.	Each	28.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to weather, tied with necessary bamboo kamis on both sides @300mm apart tied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows of bamboo tarja on bamboo frames.	Sq.m	108.27		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.				
	(b)	150 mm thick.	Sqm	183.76		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun grass of 75 mm thick (fine work) stiffened with bamboo slips of size 30mm x 6mm and tied with galvd. tying wire complete.	RM	79.08		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm x 38mm including tying to the purlins and rafters with cane slip or galvd. tying wire.				
	(a)	Fine work	Sqm	183.76		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	183.76		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane sling / Galvd. tying wire.				
	(a)	(a) With Bhaluka bamboo.	RM	115.08		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.	Sqm	26.46		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	183.76		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	183.76		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	142.12		
	•	TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

COOP	EKATIVE	SOCIETY			CIVIL TE	ENDER
		BAGMAKING	SECTIO	N		
1. Are	ea of Grou	ind floor = 476	.65 M ² .			
ITEM NO		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN RUPEES
BOQ	APWD			,		
1		EARTH WORK				
1.1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directedand specified in the following classification of soils including bailing out water where necessary as directed and specified.				
-	(A)	Up to a depth of 2.00m below the existing ground level.				
	(a)	In ordinary soil	cum	148.56		
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150 mm thick including necessary, carriage, watering,ramming etc. complete as directed and specified including payment of land compensation, Forest Royalty, Sales Tax and other duties and taxes as may be necessary. (c) with river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.	cum	187.25		
2		NOMINAL MIX. (P.C.C. WORKS)				
2.1	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footings, tie beams, steps, walls, brick works etc. as directed and specified including dewatering if necessary andcuring complete (shuttering where necessary shall be measured and paid separately).				
	a)	In prop. 1 cement : 3 sand : 6 coarse aggregate byvolume				
2.2	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1: 1.5: 3 with graded stone agg.Of 10mm down nominal size including providingapproved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	cum	22.95		
3		REINFORECED CEMENT CONCRETE WORKS				
3.1	2.2.1 (I)	Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) Using Mixer Machine				
3.1.1	(A) N)	In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. Without using admixture, plasticiser				
	(b)	M20 grade concrete	cum	46.53		
3.2	(B)	In super structure from plinth level up to 1st floor level.				•
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing shelf and support, balcony, lintel, sill band, beam, girder bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.				
	N)	Without using admixture, plasticiser		1		Г
	(b)	M20 grade concrete	cum	45.31		
4.1	2 2 1	PLYBOARD SHUTTERING (FORMWORK) Descriding form work of 12mm thick Plumond Poord to get				
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so asto give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in:				

4.12 3.2.1.3 Colorums, Pillars, Pores & State of squared excitagibles cycle document cycle	4 1 1	PERATIVI	E SOCIETY			CIVIL TI	ENDER
conflorer girlates, becausers, linels and horizontalities. 4.1.3 3.2.1.3 Flat Surfaces such as soffits of suspended thours, sook, and the surface of the su	4.1.1	3.2.1.1	polygonal in plan or any shape like Tee/L etc. havingplane	sqm	449.83		
4.13 3.2.13 Plat Surfaces such as soffits of suspended floorscooks and the file. 5 In Floor set upto 200mm in flickness. 5 INACORARY WORK MASOMARY MASOMARY MASOMARY WORK MASOMARY WORK MASOMARY WORK MASOMARY MASOMARY WORK MASOMARY MASOM	4.1.2	3.2.1.2			1		
handings, cannelever slabs, chalgis, balconies and the little. (a) Thore set upto 20 mm in thickness. 5				sqm	500.16		
Signature Sign	4.1.3	3.2.1.3	landings, cantelever slabs, chajjas, balconies				
S.1 4.1.1 Providing soling in foundation and under floor with stock best and paused after preparing the subgrade as directed and hald tolevel and in paused after preparing the subgrade as directed including all laborar and materials and if accessary development complete. Supplementarials			(a) Floors etc. upto 200mm in thickness.	sqm	100.54		
quality picked jhama brick, sand packed and laid obevel and in pacial after pregaring the subgrane as directed including all labour and materials and if a necessary develoring, complete. 5.2	5		MASONARY WORK				
Solution Substructure upto plinth level including dewatering in recessary (b) In proportion 1:4 Such state the recessary (b) In proportion 1:4 Such sast fixed properties as directed in super structure above plinth up to 1s floor level protraining MS radifor such above plinth up to 1s floor level protraining MS radifor such above plinth up to 1s floor level protraining MS radifor such above plinth up to 1s floor level protraining MS radifor such accountments in prop. 1-14 (Lement : 4 saud) including comments are prop. 1-14 (Lement : 4 saud) including 15 mm thick center plastering in prop. 1-15 (Lement : 5 sand) finishing with a floating cost of neat center flinth using centent slavy ge 2.75 kg, per sq. metre of floor area and curing complete. Solution Sol	5.1	4.1.1	quality picked jhama brick, sand packed and laid tolevel and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.	sqm	305.95		
S.2.1 (I) In Sub-structure upto plinth level including debarating in Eccessary (b) In proportion 1:4 (iii) (ii	5.2	4.1.4	including racking out joints and curing complete as				
S.3 4.1.8 Sections broke negged wall in cement morat including racking out joins and curing complete as directed in super structure above plinth up to 1st floor level (prorusding M.S. rod/Tor stee of column to be embeded in cement moratar and will be measured and paid separately) (A) 112 mm thick brick wall (a) in cement moratar in prop-parties) (A) (cement) sand) (a) in cement moratar in prop-parties) (A) (cement) sand) (cement) (a) in cement moratar in prop-parties) (cement) (5.2.1		(I) In Sub-structure upto plinth level including dewatering if necessary				
out joints and curing complete as directed in super structura above plisht up to 1st floor level (provariling M.S. red.Tor usee of column to be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall (a) In cement mortar in proportion 1:4.1 cement's autor in prop. 1:41 (element's 4 sand) including 15 mm thick cement plastering in proportion 1:2 (1 cement's 2 sand) finishing with a floating count of neat cement finish using cement slurry @ 2.75 kg, per sq. metre of floor area and curing complete. 5.1. CHENT CONCRETE FLOORING 6.1 5.1.4 6 6 mm thick cement concrete in prop. 1:12 (lement's 2 causes and 1 causes and 1 causes and 2 causes and 2 causes and 2 causes angergate of 5 sime and down) and 15 mm thick wearing layer in cement concrete in prop. 1:12 (lement's causes and 2 causes angergate of 5 sime and down) and 15 mm thick wearing layer in cement concrete in prop. 1:12 (lement's causes and 2 causes angergate of 5 sime of 2.75 kg, per squine motive of floor complete as directed. 7.1 6.2.2 15 mm thick Cement plaster in single cont on single or half brick wall for interior plastering up to 1 st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished ven and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 5.1 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1 st floor level including arises, internal rounded angles, chamfers and / or rounded angles, or texceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side (b) In cement mortar 1:4 5.1 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1 st floor level (including arises, internal rounded angles, because of the cause				cum	69.00		
Security	5.3	4.1.8	out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor stee of column to be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall		ı		
5.4 5.3.2 Bick-on-flat floor with 1st class brick and grouted with cement mortar inpop. 1-15 (Lement : 4 sand) finishing with a floating coat of neat cement finish using cement sulprive 2.75 kg, per sq. metro of floor area and curing complete. 6 FLOORING AND FLOOR FINISH 5.1 CEMENT CONCRETE FLOORING 6.1 5.1.4 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:36 (Lement 3 coarse same : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:36 (Lement 3 coarse same : 6 coarse aggregate of 52mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:32 (Lement : coarse sam finished with a floating coat of neat cement flinish (using cement surry for bond @ 2.75 kg, per square metre of floor area) including curing etc. 7 CEMENT PLASTERING 7.1 6.2.2 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side 7.2 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side 7.2 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side backing coat 15 mm and finishingcoat 5mm thick) b) In cement mortar 1:4 7.3 6.2.5 Extra over item no 6.2.1 to 6.2.3 for plastering on cellingand sofits of stairs up to 1st floor level (including using on walls) including curing complete as directed. B) In cement mortar 1:4 8. ROOFING 8.1 8.1.3 8.1.3 Providing Pr				sam	227 10		
S.1. GEMBNT CONCRETE FLOORING	5.4	5.3.2	Brick-on-flat floor with 1st class brick and grouted with cement mortar in prop. 1:4 (1 cement : 4 sand) including 15 mm thick cement plastering in proportion 1:2 (1 cement : 2 sand) finishing with a floating coat of neat cement finish using cement slurry @ 2.75 kg. per sq. metre of floor area and curing	Sqm			
5.1. CEMENT CONCRETE FLOORING 6.1 5.1.4 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:36 (Icement :3 coarse sand : 6 coarse aggregate of 25mm and down)and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (Icement : coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2:75 kg, per square metre of floor area) including curing etc. complete as directed. 7				sqm	402.00		
6.1 5.1.4 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:36 (I cement :3 coarse sand : 6 coarse aggregate of 25mm and down)and 15 mm thick wearing layer in cement concrete in prop. 1:12 (I cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. 7.1 6.2.2 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 sqm 252.30 7.2 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, chamfers and /or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5 mm thick) b) In cement mortar 1:4 sqm 313.02 7.3 6.2.5 Extra over item no 6.2.1 to 6.2.3 for plastering on cellingand soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed. 8 ROOFING 8.1 8.1.35 Providing Pre Painted Galvalume Sheet Roofing (PPGL)at all levels including fitting and fixing self drilling, self tapping screws complete (Roof requivalent as directed by the Departement	6		FLOORING AND FLOOR FINISH				
layer of cement concrete in prop. 1:3:6 (Leement:3 coarses sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (Cement:1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. sqm 75.00 7 CEMENT PLASTERING 7.1 6.2.2 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 sqm 25.2.30 7.2 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side 6.2.3 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5mm thick) b) In cement mortar 1:4 sqm 313.02 5. Extra over item no 6.2.1 to 6.2.3 for plastering on cellingand soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as sqm 100.54 8 ROOFING 8.1 8.1.35 Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses, purlins etc. to bemeasured and paid separately.) TATABlue scope/ Dynaroof / Durakolor /Wonder Roof or equivalent as directed by the Departement		5.1	CEMENT CONCRETE FLOORING				
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70 COOP	CRATIVE	SUCIETY			CIVIL I	ENDER
8.2	8.1.36	Providing Pre Painted Galvalume Sheet (PPGL) accessories Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tappingscrews complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick	R.m	44.95		Ι
9		WOOD WORKS		150		
9.1	9.18.1	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.) (b) 35mm thick	sqm	15.75		
10		GRILL				
10.1	10.2	Providing, fitting and fixing M.S. grill of required patternfor windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nutsor screws. I. Plain grill (c) Fixed to Brickwork/P.C.C/R.C.C.	kg.	692.00		I
11		ALUMINIUM WINDOWS				
11.1	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, jointsmitred and welded (manufactured to relevant ISspecifications) and providing and fixing handles, anglecleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
11.1.1	(a)	2 track sliding windows				
		(i) 6mm clear glass	sqm	0.00		
11.1.2	(b)	3 Track sliding window				
		(i) 6mm clear glass	Sq.m	34.56		
12	13.3	PAINTING PLASTER OF PARIS & WALL PUTTY				
12.1	13.3.1	Providing surface preparation for walls, celling etc.using average 1.50 mm thick plaster of paris including clearing rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and and plaster of paris paste, making thesurface even and smooth complete at all levels as specified and directed.	Sqm	257.97		
12.2	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)				
	(i)	Thickness = 1.5 mm thick	sqm	313.02		
		WALL PAINTING				
12.3	13.2.3(a)	Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth.	Sqm	570.99		
12.4	13.2.3(b)	b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shadeon new wall surface (two coats) to give an even shade after throughly brooming the surfaces to remove all dirt and remains of loose powdered materials.	Sqm	570.99		
12.5	13.4.5	Extra over for painting on celling and on sloping roof.				
-	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE	sqm	102.30		
12.6	13.7.2	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by throughly cleaning oil, grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.				
		a). With ready mixed "red-lead/ red oxide" primer.	sqm	69.12		

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	12.7	13.7.4	Painting two coats (excluding priming coat) on new steeland				
			other metal surface with enamel paint of approved brand and				
			• • • • • • • • • • • • • • • • • • • •				
			manufacture(Asian paint/ Berger paint/ ICI paint/ J & N				
			paint/ Nerolac) to give an even shade				
			including cleaning the surface of all dirt, dust and other				
			foreign matter.				
			5				
			(i).Surfaces over 100mm in width or girth.				
			a). General purpose (Asian paint/ Berger paint/ ICI				
			paint/ J & N paint/ Nerolac).	sqm	69.12		
	13		DOOR AND WINDOW FITTINGS	-			
		15.2	ALUMINIUM FITTINGS				
	13.1	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of				
			approved make, resonably smooth, free from sharpedges				
			and corners, flaws and other defects and withcounter sunk				
			holes for screws including necessary aluminium screws etc.				
			complete.(anodised to bright				
			natural matt & satin finished)				
	13.1.1	A	Sliding door bolts				
		(ii)	250mm x16mm sliding door bolt.	Each	5		
	12.2			Lacii	3		
	13.2	В	Tower bolt				
		(iii)	200mm x 10mm tower bolt.	Each	10		
	13.3	C	Door handles				
			150 mm	Each	10	·	
	14		STEEL AND IRON WORKS				
	14.1	18.1	REINFORCEMENT				
	17.1	18.1.1	Supplying, fitting and fixing in position reinforcement bars				
		10.1.1					
			conforming to relevant I.S. Code for R.C.C. work/				
			R.B. walling including straightening, cleaning, cuttingand				
			bending to proper shapes and length as per details, supplying				
			and binding with 20G annealed black wire and placing ir				
			position with proper blocks, supports, chairs, spacers etc				
			complete.				
			(No extra measurement for lap, hook, chair, anchor etc.will be				
			entertained in the measurement as they are included in the rate				
			(Upto 1st floor level)				
			b) Other ISI approved TMT reinforcement bar				
			(SAI/BISCON/THERMAX)	Qtl	94.42		
	14.2	18.3	ROOF TRUSS				
		18.3.2	Providing, fitting, hoisting and fixing of roof trusses fabricated				
			out of combination of any two or all of the following sections				
			(i) Square section (ii) Rectangular Hollow section of				
			specification RSH/SHS and (iii) M.S. circular hlollow section				
			of Grade 210 including purlins, bottom runners and providing				
			M.S. cleat, M.S. angle base plank, bolts and nuts with red				
			oxide primer including fitting bottom runner and cleat etc				
			for fixing				
			ceiling joist as per design complete as directed as per				
			specifications.				
		(b)	Using other ISI marked approved brand tube	Otl	37.25		
	14.3	18.7	DOOR FRAMES	ζ			
	14.5	18.7.2	Providing, fitting and fixing powder coated pressed steeldoor				
		10.7.2	frame made of 1.25mm/ 1.6mm thick sheet of various sizes				
			with necessary hinge jamb, lock jamb, head and steel base ties				
			at the bottom of the frame. Thewhole frame shall be welded or				
			rigidly fixed together bymechanical means with base ties of				
			pressed mild steel angle of size 20x20x1.25mm thick. Frame				
			to be filled upwith 1:4:8 P.C.C. after fitting the frame with				
			brick/ concrete works etc.complete as directed by the				
			department for all levels. (P.C.C. to be				
			measured and paid for seperately).				
			services and pare for superatory).				
			(a) 1.25mm thick sheet				
			(iii) Size 125mm x 60mm (Single rebate)	R.m	28.50		
	15		PLINTH PROTECTION WORKS AND PERIPHERY				
	15.1	19.2	Providing plinth protection with bricks flat laid in cemen		I		
	13.1	17.2	mortar 1: 4 and finished with 15mm thick cement plastering				
			•				
			prop. 1:2 with a floating coat of neat				
			cement finish.	sqm	46.35		
	15.2	19.5	Providing drain with brick work in cement mortar inproportion				
			1:5 with half brick thick side walls and 100mm thick C.C				
			(1:3:6) base over one brick flat soling including 15mm thick				
			cement plastering in prop. 1:3 finished with a floating coat of				
			cement slurry as directed with necessary shttering for sides and				
			earth work inexcavation of foundation trenches and refilling				
			the sidesafter completion of work etc. as specified.				
		Ī					
			1				
			ii). 300mm wide and average 250mm deep with bed				
			= -	R.m	107.20		
	16		slope 1 in 150 with initial depth of 100mm.	R.m	107.20		
	16	26	slope 1 in 150 with initial depth of 100mm. ANTI TERMITE TREATMENT	R.m	107.20		
	16	26	slope 1 in 150 with initial depth of 100mm.	R.m	107.20		

16.1	26.1.1	Pre construction anti - termite treatment at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plintly beam, wall, trenches etc. by applying the emulsion @ 5 (five				
		litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				
		a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (tricel or euivalent) andwater, i.e. 1% solution.	C	72.00		
		TOTAL COST OF BUILDING CIVIL WORKS	Sqm	72.00	<u> </u>	
					SAY	

1. Ar	ea of Grou	nd floor = 51.61 M^2 .				
Ite BOQ	em No.	Description of work	Unit	Qty.	Rate in Rupees	Amount in Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick	Oilit	Qty.	Rupees	Nupees
1	1.3	including necessary carriage, watering, ramming etc. complete as				
		directed and specified including payment of land compensation, forest				
		royalty, sales tax and other duties and taxes as may be necessary.				
	(b)	With hill sand obtained by truck carriage loading and unloading, and				
		carriage to the site of work.	Cum	25.44		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least				
		750mm under ground and tied with wire or cane @ 1500 to 2000 c/c				
		at least 3000 TO 4500 above plinth level.	Each	16.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to				
		weather, tied with necessary bamboo kamis on both sides @300mm				
		apart tied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows				
		of bamboo tarja on bamboo frames .				
	0.4.44	·	Sq.m	101.18		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.				
	(b)	150 mm thick.	Sqm	62.06		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun	Эціп	02.00		
Э	0.1.12	grass of 75 mm thick (fine work) stiffened with bamboo slips of size				
		30mm x 6mm and tied with galvd. tying wire complete.	RM	12.93		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm	IVIVI	12.93		
U	0.1.13	x 38mm including tying to the purlins and rafters with cane slip or galvd.				
		tying wire.				
	(a)	Fine work	Sqm	62.06		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	62.06		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane				
		sling / Galvd. tying wire.				
	(a)	(a) With Bhaluka bamboo.	RM	155.16		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas				
		placed at 150 mm apart and kamis 200mm to 230mm apart including	C	15.40		
40	0.1.10	tying all members with galvd tying wire.	Sqm	15.40		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	62.06		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	62.06		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar	JqIII	02.00		
12	3.3.1	in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion				
		1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	51.61		
	1	TOTAL COST OF BUILDING CIVIL WORKS	34.111	31.01		
		TO THE GOOT OF BOILDING OFFICE WORKS		-	SAY	

		SPAWN MAKING	G SECTI	ION		
1. Are	ea of Grou		17.50 M ² .			
ITEM N		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
BOQ	APWD					
	Α	CIVIL WORKS				
1		EARTH WORK				
1.1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
	(A)	Up to a depth of 2.00m below the existing ground level.				
	(a)	In ordinary soil	cum	58.95		
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150 mm thick including necessary, carriage, watering ramming etc. complete as directed and specified including payment of land compensation, Forest Royalty, Sales Tax and other duties andtaxes as may be necessary. (c) with river sand or silt(predominantly non plastic) by truck carriage				
		including loading and unloading	cum	111.38		
2		NOMINAL MIX. (P.C.C. WORKS)				
2.1	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footings, tie beams, steps, walls, brick works etc. as directed and specified including dewatering if necessary and curing complete (shuttering where necessary shall be measured and paid separately).				
2.1.1	a)	In prop. 1 cement : 3 sand : 6 coarse aggregate by volume	cum	23.35		
2.2	2.1.3	Providing and laying 25mm thick damp proof coursewith cement concrete in prop 1: 1.5: 3 with graded stone agg. Of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	sqm	12.00		
3		REINFORECED CEMENT CONCRETE WORKS				
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm downgraded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
L	(I)	Using Mixer Machine				
3.1.1	(A)	In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth Without using admixture, plasticiser				
	(b)	M20 grade concrete	cum	19.72		
	\-/	· ·	- G111	17.72		

3.2.1 (ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, statircase (except spiral statircase and landing) including preparing the top surface and finishing of N) Without using admixture, plasticiser Cum 20.12					
landing, shelf and support, balcony, lintel, sill band beam, girder, bressumer, cantilever, statircase (except spiral statircase and flanding) including preparing the top surface and finishing of N) Without using admixture, plasticiser (b) M20 grade concrete 4 PLYBOARDSHUTERING (FORMWORK) 4.1 3.2.1 Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in: 4.1.1 3.2.1.1 Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face 4.1.2 3.2.1.2 Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. sqm 177.3d 4.1.3 3.2.1.3 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5 MASONARY WORK 5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering; complete. (a) Brick work in cement morter with 1st class brick including acking out joints and curing complete as directed. (1) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M. rod/Tor steel of columno be embeded in cement mortar and will be measured and paid separately)					
N) Without using admixture, plasticiser		landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including			
(b) M20 grade concrete cum 20.12					
4.1 3.2.1 Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in: 4.1.1 3.2.1.1 Columns, Pillars, Posts & Strutt of square/ rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face scantilever girders, bressumers, lintels and horizontal ties. 4.1.2 3.2.1.2 Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. sqm 177.3d			cum	20.12	
to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in: 4.1.1 3.2.1.1 Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face struct of square/ rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face cantilever girders, bressumers, lintels and horizontal ties. (a) Fordepth not exceeding 1.0M. 4.1.2 3.2.1.3 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5 MASONARY WORK 5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a) Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)	. ,	,			
strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in: 4.1.1 3.2.1.1 Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face tect. having plane vertical face etc. having plane vertical face tect. having plane vertical face etc. having plane vertical face squall very girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. sqm 177.3¢ Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajias, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5 MASONARY WORK 5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a) Brick on flat soling. sqm 311.39 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (1) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.5 rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)	4.1 3.2.1	2.1 Providing form work of 12mm thick Plywood Board so as			
rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face cetc. having plane vertical face cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. sqm 177.36 4.1.3 3.2.1.3 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5 MASONARY WORK 5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a) Brick on flat soling. sqm 311.39 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (1) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same			
cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. 4.1.3 3.2.1.3 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5 MASONARY WORK 5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling. sqm 311.39 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face	sqm	185.97	
4.1.3 3.2.1.3 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5 MASONARY WORK 5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a) Brick on flat soling. sqm 311.39 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		cantilever girders, bressumers, lintels and			
roofs, landings, cantelever slabs, chajjas, balconiesand the like. (a) Floors etc. upto 200mm in thickness. sqm 75.03 5			sqm	177.36	
5.1 4.1.1 Providing soling in foundation and under floor with stone-best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling. sqm 311.39 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		roofs, landings, cantelever slabs, chajjas, balconiesand the like.			
5.1 4.1.1 Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a) Brick on flat soling. sqm 311.39 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S. rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)			sqm	75.03	
best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling. 5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)	-				
5.2 4.1.4 Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. 5.2.1 (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.			
including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		.,	sqm	311.39	
dewatering if necessary (d) In proportion 1:6 cum 20.25 5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		including racking out joints and curing complete as directed.			
5.3 4.1.8 Ist class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)		dewatering if necessary			<u>, </u>
racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately)			cum	20.25	
(b) In cement mortar in proportion 1:5.(1 cement:5 sand) sqm 253.93		racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall (b) In cement mortar in proportion 1:5.(1 cement:5 sand)	sqm	253.93	
6 FLOORING AND FLOOR FINISH					
6.1 5.7.1.2 Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mmon walls and skirtings over cement mortar bed10 mmthick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls). b) Executive range Somany/Orient/Nitco/Asian Make		size, shape and thickness not less than 8mmon walls and skirtings over cement mortar bed10 mmthick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls). b) Executive range Somany/Orient/Nitco/Asian Make			
i) Of size 200mmx300mm and above sqm 9.14		1) Of size 200mmx300mm and above	sqm	9.14	

<u> </u>			VE SUCIETY			CIVIL TEND	EK
	6.2	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of				
			specified size, shape and thickness not less than 18mm				
			on floors, skirtings, risers and treads of steps over 15				
			mm thick base of cement mortar inprop. 1:3 (1 cement				
			* * *				
			: 3 coarse sand) including cutting where necessary				
			finished with flush pointing with Fix-A-Tile				
			(Choksey/Sika/Pedelite/Rouf) / white cement slurry				
			mixed with approved pigment to match shade oftiles,				
			mixed with approved pigment to match theshade of				
			the tiles, complete at all levels as specified and directed.				
			(Coloured pigment should be in conformity with colour				
			of tiles and as approved and				
			directed by the Department)				
			1				
			a) Normal range				
			_				
			Somany/ Orient/Nitco /Varmora/VITA/ Marbito/				
			Make				T
		(ii)	Of size 600mmx600mm and above	sqm	122.85		
	6.3	5.3.2	Brick-on-flat floor with 1st class brick and grouted with				
			cement mortar in prop. 1:4 (1 cement : 4 sand)including				
			15 mm thick cement plastering in proportion 1:2 (1				
			cement : 2 sand) finishing with a floating coat of neat				
			cement finish using cement slurry @ 2.75 kg. per sq.				
			metre of floor area and curing complete.				
			metre of floor area and curning complete.		122.05		
L				sqm	122.85		
L	6.4	5.11	ANTISKIDTILES				
		5.11.1	Providing Antiskid Tiles of approved quality size, shape				
			not less than 8mm on floor, skirting over a cement mortar				
			bed 15mm thick of 1:3 (1 cement: 3 coarse sand)				
			approved make fix with Fix-A-Tile				
			(Choksey/Sika/Pedelite/Rouf)/ white cement				
			complete at all level as specified and directed.				
			(A) ĈERAMIC				
			i)Normal range (Sizes 300 mm x 300mm and				
			(a)Orient made: Galaxy Brown, Galaxy creama, Galaxy				
			Pink, Galaxy Green, Pulsar Beige, Pulsar Blue, Pulsar				
			Tink, Galaxy Green, Tuisar Beige, Tuisar Blue, Tuisar				
			Dove Pulsar Pink Ruri Brown Ruri				
			Dove, Pulsar Pink, Burj Brown, Burj	sam	1.90		
	6.5	5.1	Green, Burj Slate	sqm	1.80		
	6.5	5.1	Green, Burj Slate CEMENT CONCRETE FLOORING	sqm	1.80		
	6.5	5.1 5.1.4	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down)	sqm	1.80		
_	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate	sqm	1.80		
_	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate	sqm	1.80		
-	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry	sqm	1.80		
_	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area)	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area)	sqm	1.80		
	6.5		Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area)				
			Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING				
	7	5.1.4	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on single or half				
	7	5.1.4	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level				
	7	5.1.4	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding				
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	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4				
	7	5.1.4	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floorlevel including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floorlevel including arises, internal rounded angles, chamfers and /	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floorlevel including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floorlevel including arises, internal rounded angles, chamfers and / or rounded angles not	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth	sqm	17.60		
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	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick)	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing	sqm	17.60		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floorlevel including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick) b) In cement mortar 1:4	sqm	17.60 439.62		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floorlevel including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floorlevel including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick) b) In cement mortar 1:4 Extra over item no 6.2.1 to 6.2.3 for plastering on celling	sqm	17.60 439.62		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floorlevel including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick) b) In cement mortar 1:4	sqm	17.60 439.62		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick) b) In cement mortar 1:4 Extra over item no 6.2.1 to 6.2.3 for plastering on celling and soffits of stairs up to 1st floor level (instead of	sqm sqm	17.60 439.62		
	7 7.1	6.2.2	Green, Burj Slate CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement: 1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENTPLASTERING 15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick) b) In cement mortar 1:4 Extra over item no 6.2.1 to 6.2.3 for plastering on celling and soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as	sqm	17.60 439.62		

FOOD CC		VE SOCIETY			CIVIL TENI	JEK	
	8.1.35	Providing Pre Painted Galvalume Sheet Roofing(PPGL)					
8.1		at all levels including fitting and fixing self drilling, self					
		tapping screws complete (Roof trusses,purlins etc. to be					
		measured and paid separately.) TATA Blue scope/ Dyna					
		roof / Durakolor /Wonder Roof or equivalent as directed					
		by the Departement					
		(") 0.45		270.54			
8.2	8.1.36	(ii) 0.45 mm thick	sqm	279.54			
0.2	8.1.30	Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all					
		levels including fitting and fixing self drilling, self tapping					
		screws complete.					
		TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof					
		or equivalent as directed by the Departement					
		(ii) 0.45 mm thick	R.m	24.66			
9		WOODWORKS					
9.1	9.18.1	Providing, fitting and fixing factory made Santro Flush					
		door shutters having core & cross bands fabricated from					
		seasoned 1st class timber, 25mm core battens, 2.5mm to					
		3.5mm uniformly thick crossbands, styles & rails made					
		from hardwood timber of width not less than 50mm, fixed					
		to the door frames (chowkath) with necessary hinges, screws, bolts etc.as specified and directed at all levels					
		(Door fixtures and fittings to be measured and paid					
		seperately.)					
		seperatery.)					
		(b) 35mm thick	sqm	26.78			
10		GRILL					
10.1	10.2	Providing, fitting and fixing M.S. grill of required pattern					
		for windows/ clerestory windows/ opening with M.S. flats					
		at required spacing in frame					
		all round, squre or round M.S. bars with round headed					
		bolts and nuts or screws.					
		I. Plain grill					
		(c) Fixed to Brickwork/P.C.C/R.C.C.	kg.	594.00			
11	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS	kg.	594.00			
11 11.1	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket,	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as	kg.	594.00			
11.1		(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.	kg.	594.00			
	11.1.2	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows					
11.1.1	(a)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass	kg.	0.54			
11.1		(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window	sqm	0.54			
11.1.1 11.1.2	(a)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass					
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass	sqm	0.54			
11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department.	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department.	sqm	0.54			
11.1.1 11.1.1 11.1.2	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)	sqm Sq.m	0.54 29.16			
11.1.1 11.1.1 11.1.2	(a) (b)	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department.	sqm	0.54			
11.1.1 11.1.2 12.1	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING	sqm Sq.m	0.54 29.16			
11.1.1 11.1.2 12.1	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)	sqm Sq.m	0.54 29.16			
11.1.1 11.1.2 12.1	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on newsurface to	sqm Sq.m	0.54 29.16			
11.1.1 11.1.2 12.1	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on newsurface to give an even shade after throughly brushing the surfaces	sqm Sq.m	0.54 29.16			
11.1.1 11.1.2 12.1	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on newsurface to give an even shade after throughly brushing the surfaces free from mortar droppings and other foreign matter and	sqm Sq.m	0.54 29.16			
11.1.1 11.1.2 12.1	(a) (b) 13.3 13.3.4	(c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sectionsof approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 2 track sliding windows (i) 6mm clear glass 3 Track sliding window (i) 6mm clear glass PAINTING PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on newsurface to give an even shade after throughly brushing the surfaces	sqm Sq.m	0.54 29.16			

					CIVIL TEINL	
		(a). Acrylic Emulsion Paint approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J& N				
		paint/Nerolac)	sqm	439.62		
		,	~ 1			
12.3	13.4.5	Extra over item no 13.4.1 above for painting with				
		acrylic emulsion paint of approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J & N				
		paint/ Nerolac) on celling and on sloping roof.				
		(i).Acrylic Emulsion Paint approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J& N				
		paint/ Nerolac)	sqm	75.03		
12.4	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE	CE	1		- I
12	13.7.2					
	13.7.2	Applying primary coat over new steel and othermetal				
		surface over 100m in width or girth after preparing the				
		surface by throughly cleaning oil, grease, dirt and other				
		foreign matter and scoured with wire brushes, fine				
		steels, wood				
		scrapers and sand paper.				
		a). With ready mixed "red-lead/ red oxide" primer.	sqm	59.40		
12.5	1274		sqiii	<i>J</i> 7 7 7 1 1 1 1 1 1 1 1 1 1		<u>-i</u>
12.5	13.7.4	Painting two coats (excluding priming coat) on new stee				
		and other metal surface with enamel paint of approved				
		brand and manufacture(Asian paint/ Berger paint/ ICI				
		paint/ J & N paint/ Nerolac) to give an even shade				
		including cleaning the surface of all dirt, dust and other				
		foreign matter.				
		(i).Surfaces over 100mm in width or girth.				
		()		1		
		a). General purpose (Asian paint/ Berger paint/ ICI		50.40		
		paint/ J & N paint/ Nerolac).	sqm	59.40		
12.6	13.9	SPECIAL WEATHER PROOF COLOURING				
	13.9.5	Finishing wall with water proofing weather coat smooth				
		anti-fungal exterior painting of Ace brand of Asian Paints				
		and of required shade on old/new wall surface after				
		cleaning and clearing the surface etc. including				
		I scattolding complete as directed at all				
		scaffolding complete as directed at all	cam	1/1 01		
12		levels (two coats)	sqm	141.91		
13	45.0	levels (two coats) DOOR AND WINDOW FITTINGS	sqm	141.91		
13	15.2	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS	sqm	141.91		
	15.2 15.2.1	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of	sqm	141.91		
	_	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges	sqm	141.91		
	_	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of	sqm	141.91		
	_	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter	sqm	141.91		
	_	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium	sqm	141.91		
	_	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt &	sqm	141.91		
	_	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium	sqm	141.91		
13.1	15.2.1	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)	sqm	141.91		
	15.2.1 A	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts				
13.1.1	15.2.1 A (ii)	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt.	sqm	141.91		
13.1	15.2.1 A (ii) B	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt	Each	d		
13.1.1 13.1.1 13.2	A (ii) B (iii)	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt.				
13.1.1	15.2.1 A (ii) B	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles	Each Each	6 20		
13.1.1 13.1.1 13.2 13.3	A (ii) B (iii)	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm	Each Each	d		
13.1.1 13.1.1 13.2	A (ii) B (iii)	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure	Each Each	6 20		
13.1.1 13.1.1 13.2 13.3	A (ii) B (iii)	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm	Each Each	6 20		
13.1.1 13.1.1 13.2 13.3 13.4	A (ii) B (iii)	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure	Each Each Each	6 20		
13.1.1 13.2 13.3 13.4 13.5 14	A (ii) B (iii) C	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure t) Door stopper with rubber stopper	Each Each Each	6 20		
13.1.1 13.2 13.3 13.4 13.5	A (ii) B (iii) C	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure t) Door stopper with rubber stopper STEEL AND IRON WORKS REINFORCEMENT	Each Each Each	6 20		
13.1.1 13.2 13.3 13.4 13.5 14	A (ii) B (iii) C	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure t) Door stopper with rubber stopper STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcementbars	Each Each Each	6 20		
13.1.1 13.2 13.3 13.4 13.5 14	A (ii) B (iii) C	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure t) Door stopper with rubber stopper STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcementbars conforming to relevant I.S. Code for R.C.C.work/ R.B.	Each Each Each	6 20		
13.1.1 13.2 13.3 13.4 13.5 14	A (ii) B (iii) C	levels (two coats) DOOR AND WINDOW FITTINGS ALUMINIUMFITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free fromsharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished) Sliding door bolts 250mm x 16mm sliding door bolt. Tower bolt 200mm x 10mm tower bolt. Door handles 150 mm 1) Hydraulic door closure t) Door stopper with rubber stopper STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcementbars conforming to relevant I.S. Code for R.C.C.work/ R.B. walling including straightening, cleaning, cutting and	Each Each Each	6 20		
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		18.3.2	Providing, fitting, hoisting and fixing of roof trusses							
			fabricated out of combination of any two or all of the							
			following sections (i) Square section (ii) Rectangular							
			Hollow section of specification RSH/SHS and (iii)							
			M.S. circular hlollow section of Grade 210 including							
			purlins, bottom runners and providing M.S. cleat,							
			M.S. angle base plank, bolts and nuts with red oxideprimer							
			including fitting bottom runner and cleat etc.for fixing							
			ceiling joist as per design complete as directed as per							
			specifications.							
L										
		(b)	Using other ISI marked approved brand tube	Qtl		31.94				
	14.3	18.7	DOOR FRAMES							
		18.7.2	Providing, fitting and fixing powder coated pressed steel							
			door frame made of 1.25mm/ 1.6mm thick sheet of							
			various sizes with necessary hinge jamb, lock jamb, head							
			and steel base ties at the bottom of the frame. The whole							
			frame shall be welded or rigidly fixed together by							
			mechanical means with base ties of pressed mild steel							
			angle of size 20x20x1.25mm thick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick							
			concrete works etc.complete as directed by the							
			department for all levels. (P.C.C. to be measured and paid							
			for seperately).							
			for seperatory).							
			(a) 1.25mm thick sheet							
			* 7	D	1	5175			1	
-	45		(iii) Size 125mm x 60mm (Single rebate) PLINTH PROTECTION WORKS AND PERIPHERY	R.m		54.75				
_	15	40.0			ı	-			T	
	15.1	19.2	Providing plinth protection with bricks flat laid incement							
			mortar 1: 4 and finished with 15mm thick							
			cement plaster in prop. 1:2 with a floating coat ofneat cement finish.	sqm		30.36				
F	15.2	19.5	Providing drain with brick work in cement mortar in	sqiii		30.30				
	13.2	17.5	proportion 1:5 with half brick thick side walls and 100mm							
			thick C.C (1:3:6) base over one brick flat soling including							
			unen ere (11010) case over one erren nat somig merading							
			15mm thick cement plastering in prop. 1:3 finished with							
			15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary							
			15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides							
			a floating coat of cement slurry as directed with necessary							
			a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as							
			a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified.		T				T	
			a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope	R m		71.66				
	16		a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope 1 in 150 with initial depth of 100mm.	R.m		71.66				
	16	26	a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope 1 in 150 with initial depth of 100mm. ANTITERMITETREATMENT			71.66				
	16 16.1		a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope 1 in 150 with initial depth of 100mm. ANTITERMITE TREATMENT PRE CONSTRUCTION ANTI-TERMITE TREATMEN			71.66				
		26 26.1.1	a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope 1 in 150 with initial depth of 100mm. ANTITERMITE TREATMENT PRE CONSTRUCTION ANTI - TERMITE TREATMEN Pre construction anti - termite treatment at the bottom of			71.66				
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	16.1	26.1.1 B 1.1.3	a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope 1 in 150 with initial depth of 100mm. ANTITERMITETREATMENT PRE CONSTRUCTION ANTI-TERMITETREATMEN Pre construction anti - termite treatment at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plinth beam, wall, trenches etc. by applying the emulsion @ 5 (five) litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (tricel or euivalent) and water, i.e. 1% solution. SANITARY WORKS Providing fitting and fixing vitreous water closet squatting pan (Indian type W.C Orissa pattern) withall fittings and fixtures complete including cutting andmaking good to the walls and floors whereever required. (Flushing Cistern to be paid separately) Vitreous water closet squatting pan Indian type W.COrissa pattern of size 580 x 450 mm a) White ii)Hindware make Supplying, fitting and fixing PVC flushing cistern withall internal fittings with CI brackets including fitting and	Sqm		27.00				

100000	OI LIVAT	ii) Hindware make	1		CIVIL ILIND	L
1		II) Hilldware make				ļ
_	i					
		a) White				
		(i) Sleek+ PVC cistern	Each	1		
3	1.13	Providing vitreous China wash basin with CI/MS				
		brackets, C.P brass chain with plug,PVC waste pipe				
		including painting of fittings and brackets, cutting and				
		making good the walls wherever required. (Pillar cock				
		stop cocks, waste coupling are to be				
		paid separately)				
	1.13.2	BASIN (without pedestal)				
		(B) Hindware Make				
		(a) White				
		(i) Alto 510 x 400 (Cat. No.10091)	Each	1		
4	1.18	Providing fitting and fixing Mirror with plastic frameof				
		size 500x400mm complete as directed and				
		specified.	Each	1		
5	1.22	Providing, fitting and fixing CP soap tray / soap dish				
		complete as directed and specified.				
		(i) Jaquar Make				
		(a) Continental (Cat.No.ACN-1331N)	Each	1		
6	1.24	Providing, fitting and fixing CP towel rail complete	Lacii		1	
	1.2	as directed and specified.				
		(b) Sona make				
		(iii) Towel rail diplomat 600mm long (Cat.No.TR-				
		0605)	Each	1		
7	1.26	Providing, fitting and fixing Chrome Plated towel	Lucii	1		
,	1.20	ring complete as directed and specified.				
		(b) Sona make				
		(i) Towel ring round (Cat.No.TR-06051)	Each	1		
8	1.27	Providing, fitting and fixing Chrome Plated robe	Lucii			
0	1.27	hook complete as directed and specified.				
		(b) Agmeco make				
		-	г.		1	1
- 0	1.22	(vi) Dolfee (Cat.No.DE-00211)	Each	1		
9	1.32	Providing, fitting and fixing Chrome Plated waste				
		coupling complete as directed and specified. (b) Sona				
		(i) Rupa 32mm (HT/ FT) (Cat.No.WS-0801)	Each	1	1	
10	1.34	Providing, fitting and fixing Chrome Plated bottletrap	Eacii	1		
10	1.54	pipe complete as directed and specified.				
		(a) Sona make		_		
		(i) Pipe for bottle trap 300mm long (Cat. No.BT-				
		0761)	Each	1		
11	1.37.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2				
		(Supreme/Prince) or other ISI approved including joining				
		fitting and fixing wiyh clamps etc.as necessary complete at all levels including below				
		G.L as directed and specified.				
	(a)	In exposed surfaces or in trenches.				
	(ii)	110mm dia.	R.m	8.00		
12	1.37.3	Supplying fiting and fixing 87.5 degree PVC bend with		0.00	1	
12	1.37.3	door of (Supreme/Prince) or other ISI approvedincluding				
		joining, fitting and fixing etc. as necessary complete at al				
		levels including below				
		G.L. as directed and specified.				
	(a)	In exposed surfaces or in trenches.				
	(ii)	110mm dia.	Each	2		
13	1.37.6	Supplying fiting and fixing PVC single tee with door o			l	<u> </u>
		(Supreme/Prince) or other ISI approved including joining				
		fitting and fixing etc. as necessary completeat all levels				
		including below				
		G.L. as directed and specified.				
		a) In exposed surfaces or in trenches.				
		(ii) 110mm dia.	Each	2		
14	1.39	Providing fitting and fixing PVC cowel of ISI make		•	•	•
		complete as directed and specified.				
	(ii)	110mm dia. PVC cowel of ISI make	Each	1		
15	1.42	C.P. Grating	20011	<u> </u>	1	1
	1.74	C.1 . C.111115				

C INTERNAL WATER SUPPLY WORKS 3.1.6 Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brasshreaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe R.m 6.00			IVE SOCIETY			CIVIL	ILINDEN	1
3.1.6 Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brassthreaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe R.m 6.00		(ii)	110 mm dia	Each	2			
(CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brassthreaded fittings is 6 fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe 1.1.1		С	INTERNAL WATER SUPPLY WORKS					
1.1.1 (c) 25 mm nominal outer dia pipe R.m 6.00 1.1.2 (f) 50 mm nominal outer dia pipe R.m 6.00 1.2 B Concealed pipe with cutting chases & making good the walls 1.2.1 (a) 15 mm nominal outer dia pipe R.m 4.00 1.2.2 (b) 20 mm nominal outer dia pipe R.m 4.00 1.2.3 Supplying fitting and fixing C.P. bib cock 15mm diaof approved brand directed and specified. (G.I. & C.P pipes will be measured separately) (IV) Agmeco brand (v) Bib Cock Two way with Flange CAT No.CC 00203/CATNo.CN 00203 Each 1 3 3.3.2 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand	1	3.1.6	(CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brassthreaded fittings i/c fixing the pipe with clamps at 1.00m spacing					
1.1.2	1.1	Α	In exposed surfaces or in trenches.					
1.2 B Concealed pipe with cutting chases & making good the walls 1.2.1 (a) 15 mm nominal outer dia pipe R.m 4.00 1.2.2 (b) 20 mm nominal outer dia pipe R.m 4.00 2 3.2.1 Supplying fitting and fixing C.P. bib cock 15mm diaof approved brand directed and specified. (G.I. & C.P pipes will be measured separately) (IV) Agmeco brand (v) Bib Cock Two way with Flange CAT No.CC 00203/CAT No.CN 00203 3 3.3.2 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand 3.1 (a) 15mm dia(Male/Female) Each 2 3.2 (b) 15mm dia(Concealed) Each 1 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	1.1.1	(c)	25 mm nominal outer dia pipe	R.m	6.00			
1.2.1	1.1.2	(f)	50 mm nominal outer dia pipe	R.m	6.00			
1.2.2 (b) 20 mm nominal outer dia pipe R.m 4.00 2 3.2.1 Supplying fitting and fixing C.P. bib cock 15mm diaof approved brand directed and specified. (G.I. & C.P pipes will be measured separately) (IV) Agmeco brand (v) Bib Cock Two way with Flange CAT No.CC 00203/CAT No.CN 00203 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand 3.1 (a) 15mm dia(Male/Female) Each 2 3.2 (b) 15mm dia(Concealed) Each 1 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	1.2	В	· · · · · · · · · · · · · · · · · · ·				,	
3.2.1 Supplying fitting and fixing C.P. bib cock 15mm diaof approved brand directed and specified. (G.I. & C.P pipes will be measured separately) (IV) Agmeco brand (v) Bib Cock Two way with Flange CAT No.CC 00203/CAT No.CN 00203 3.3.2 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand 3.1 (a) 15mm dia(Male/Female) 3.2 (b) 15mm dia(Concealed) 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	1.2.1	(a)	15 mm nominal outer dia pipe	R.m	4.00			
approved brand directed and specified. (G.I. & C.P pipes will be measured separately) (IV) Agmeco brand (v) Bib Cock Two way with Flange CAT No.CC 00203/CAT No.CN 00203 3 3.3.2 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified. (G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand 3.1 (a) 15mm dia(Male/ Female) Each 2 3.2 (b) 15mm dia(Concealed) Each 1 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	1.2.2	(b)	20 mm nominal outer dia pipe	R.m	4.00			
(v) Bib Cock Two way with Flange CAT No.CC 00203/CAT No.CN 00203 Each 1 3 3.3.2 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand 3.1 (a) 15mm dia(Male/Female) Each 2 3.2 (b) 15mm dia(Concealed) Each 1 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	2		approved brand directed and specified. (G.I. & C.P pipes will be measured separately)					
3 3.3.2 Supplying fitting and fixing chrome plated (C.P.)stop-cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately) (II) Agmeco Brand 3.1 (a) 15mm dia(Male/ Female) Each 2 3.2 (b) 15mm dia(Concealed) Each 1 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS			5		1		1	
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3.1 (a) 15mm dia(Male/ Female) Each 2	3	3.3.2	cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured					
3.2 (b) 15mm dia(Concealed) Each 1 4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS		(II)	Agmeco Brand					
4 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS		(a)	` ′	Each	2			
of approved brand as specified and directed. (III) Agmeco (classic) (a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	3.2	(b)	,	Each	1			
(a) Flat Each 1 TOTAL COST OF BUILDING CIVIL WORKS	4	3.5.1						
TOTAL COST OF BUILDING CIVIL WORKS		(III)	Agmeco (classic)					
		(a)	= ====	Each	1			
SAY	,		TOTAL COST OF BUILDING CIVIL WORKS					
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		VALUE ADDITION B	UILDIN	IG		
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ITEM NO		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
BOQ	APWD					
1		EARTH WORK				
1.1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplusearth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.				
	(A)	Up to a depth of 2.00m below the existing ground level.				
	(a)	In ordinary soil	cum	57.62		
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150 mm thick including necessary, carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, Forest Royalty, Sales Tax and other duties and taxes as may be necessary. (c) with river sand or silt (predominantly non plastic) by truck carriage including loading and unloading	cum	130.82		
2	2.1.1	NOMINAL MIX. (P.C.C. WORKS)				
2.1	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footings, tie beams, steps, walls, brick works etc. as directed and specified including dewatering if necessary and curing complete (shuttering where necessary shall be measured and paid separately).				
2.1.1	a)	In prop. 1 cement : 3 sand : 6 coarse aggregate by volume	cum	26.40		
2.2	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1: 1.5: 3 with graded stone agg. Of10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	sqm	10.55		
3	2.2.1	REINFORECED CEMENT CONCRETE WORKS				
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
	(I)	Using Mixer Machine				
3.1.1	(A) N)	In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. Without using admixture, plasticiser				
	(b)	M20 grade concrete	cum	18.79		
3.2	(B)	In super structure from plinth level up to 1st floor level.				
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. Without using admixture, plasticiser				
	(b)	M20 grade concrete	cum	22.87		
4		PLYBOARD SHUTTERING (FORMWORK)				
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in:				

0 <u>00 C0</u>	OPERAT	IVE SOCIETY			CIVIL TENI	DER
4.1.1	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	sqm	175.30		
4.1.2	3.2.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.	•	1		
		(a) For depth not exceeding 1.0M.	sqm	177.62		
4.1.3	3.2.1.3	Flat Surfaces such as soffits of suspended floors, roofs,landings, cantelever slabs, chajjas, balconies and the like.				
		(a) Floors etc. upto 200mm in thickness.	sqm	99.12		
5		MASONARY WORK				
5.1	4.1.1	Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.	sqm	351.94		
5.2	4.1.4	Brick work in cement morter with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary				
		(d) In proportion 1:6	cum	18.29		
5.3	4.1.8	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall	cum	10.25		
		(b) In cement mortar in proportion 1:5.(1		100.05		
6		cement:5 sand)	sqm	190.86		
6.1	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete tall levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)				
		a) Normal range				
		Somany/ Orient/Nitco /Varmora/VITA/ Marbito/ Make				
	(ii)	Of size 600mmx600mm and above	sqm	145.35		
6.2	5.3.2	Brick-on-flat floor with 1st class brick and grouted with cement mortar in prop. 1:4 (1 cement : 4 sand) including 15mm thick cement plastering in proportion 1:2 (1 cement : 2 sand) finishing with a floating coat of neat cement finish using cement slurry @ 2.75 kg. per sq. metre of floor area and curing complete.	sqm	145.35		
	5.1	CEMENT CONCRETE FLOORING				
6.3	5.1.4	65 mm thick cement concrete floor consisting of 50 mmunder layer of cement concrete in prop. 1:3:6 (1cement : 3coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2(1cement :1 coarse sand : 2 coarse aggregate of size10mmdown) laid in panels and finished with a floating coatof neatcement finish (using cement slurry for bond @ 2.75 kg. persquare metre of floor area) including curing etc.	sqm	36.72		
7 7 1	622	CEMENT PLASTERING				
7.1	6.2.2	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level includingarises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4	sqm	286.44		
7.2	6.2.3	20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed.	~ J-**	22011		

OPERATI	IVE SOCIETY			CIVIL TEND	EK
	A) On rough side (backing coat 15 mm and finishing coat5mm				
	· · ·		1		
	*	sqm	188.73		
6.2.5	Extra over item no 6.2.1 to 6.2.3 for plastering on celling andsoffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed.	sqm	99.12		
	ROOFING				
8.1.35	Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick	sqm	308.49		
8.1.36	Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement				
		K.III	31.60		
9.18.1	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed tothe door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)				
	(b) 35mm thick	sqm	10.71		
	GRILL				
10.2	windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nuts or screws.				
	-	kg.	1.102.00		
	ALUMINIUM WINDOWS	116.	1,102.00		
11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) andproviding and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
(a)	2 track sliding windows				
(1.)	(i) 6mm clear glass	sqm	0.00		
(b)	-	Sa m	55 NS		T
	PAINTING	~ q.m	22.09		
13.3	PLASTER OF PARIS & WALL PUTTY				
13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)				
(i)	Thickness = 1.5 mm thick	sqm	475.17		
	Wall painting (two coats) with acrylic emulsion paint approved				
15.4.1	brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after throughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.		T 1		T
	manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	sqm	286.44		
13.4.5	Extra over item no 13.4.1 above for painting with acrylic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on celling and on sloping roof.				
	6.2.5 8.1.35 8.1.36 9.18.1 10.2 (a) (b) 13.4 13.4.1	A) On rough side (backing coat 15 mm and finishing coat5mm thick) b) In cement mortar 1:4 6.2.5 Extra over item no 6.2.1 to 6.2.3 for plastering on celling andsoffits of stairs up to 1st floor level (instead of plastering on walls including curing complete as directed. ROOFING 8.1.35 Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick 8.1.36 Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges/ Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS 9.18.1 Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed tothe door frames (chowkath) with necessary hinges, screws,bolts etc. as specified and directed at all levels (Door fixturesand fittings to be measured and paid seperately.) (b) 35mm thick GRILL 10.2 Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and muts or screws. 1. Plain grill (c) Fixed to Brickwork/P.C.C.R.C. ALUMINIUM WINDOWS 11.1.2 Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welledd manufacture (activative passet, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all le	A) On rough side (backing coat 15 mm and finishing coat5mm thick) b) In cement mortar 1:4 ct. 2.5 Extra over item no 6.2.1 to 6.2.3 for plastering on celling andsoffits of staris up to 1st floor level (instead of plastering on walls) including curing complete as directed. ROOPING 8.1.35 Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses, purlins etc. to be measured and paid separately.) Soppe Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick 8.1.36 Providing Pre Painted Galvalume Sheet (PPGL) accessories Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick R.m WOOD WORKS 9.18.1 Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 95mm, fixed tothe door frames (chowkath) with necessary hinges, screws,boits etc. as specified and directed at all levels (Door fixturesand fittings to be measured and paid seperately.) (b) 35mm thick SRILL 10.2 Providing, fitting and fixing and sugar or round M.S. bas with round headed bolts and nuts or screws. 1. Plain grill (c) Fixed to Brickwork/P.C.C/R.C.C. ALUMINUM WINDOWS 11.1.2 Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant 18 specifications) and providing and fixing handles, angle clear, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. 4 2 track sliding windows (i) 6mm clear glas	A) On rough side (backing coat 15 mm and finishing coat5mm thick) b) In cement mortar 1:4 b) In cement mortar 1:4 c) 1.5 Extra over item to 2.1 to 6.2.3 for plastering on celling andsoffits of stairs up to 1st floor level (instead of plastering on walls including curing complete as directed. ROOFING 8.1.35 Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping serves complete (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope Dyna nor / Durakolor / Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick 8.1.36 Rodfully / Ganter / Plashing) at all levels including fitting and fixing self drilling, self tapping serves complete. TATA Blue scope/ Dyna roof / Durakolor / Wonder Roof or equivalent as directed by the Departement (iii) 0.45 mm thick 8.1.36 Rodfully / Ganter / Plashing) at all levels including fitting and fixing self drilling, self tapping serves complete. TATA Blue scope/ Dyna roof / Durakolor / Wonder Roof or equivalent as directed by the Departement (iii) 0.45 mm thick 8.1.81 Rodfully / Rodfull	A) On rough side (backing coat 15 mm and finishing coat/min hick) 6.2.5 Extra over item on 6.2.1 to 6.2.3 for plastering on celling andsoffic of stairs up to 1st floor level (instead of plastering on walls including curing complete as directed. 8.1.35 Providing Per Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self affilling, self rapping screws complete (Roof trusses, purifies etc. to be measured and paid separately.) 8.1.36 Providing Per Painted Galvalume Sheet (PPGL) accessories (self-stair) as directed by the Departement (as directed by the Department (C) d

OOD CO	OPERATI	VE SOCIETY			CIVIL TEND	ER
		(i).Acrylic Emulsion Paint approved brand and manufacture (Asian				
		paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)				
			sqm	99.1	2	
	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE				
12.4	13.7.2	Applying primary coat over new steel and other metal surface over				
		100m in width or girth after preparing the surface by throughly				
		cleaning oil, grease, dirt and other foreign matter and scoured with				
		wire brushes, fine steels,				
		wood scrapers and sand paper.				
		a). With ready mixed "red-lead/ red oxide" primer.	sqm	110.10	5	
12.5	13.7.4	Painting two coats (excluding priming coat) on new steel and other	oqm	110.11	1	1
12.5	15.7.4	metal surface with enamel paint of approved brand and				
		manufacture(Asian paint/ Berger paint/ ICI paint/J & N paint/				
		Nerolac) to give an even shade including cleaning the surface of all				
		dirt, dust and other foreign matter.				
		,				
		(i).Surfaces over 100mm in width or girth.				
		a). General purpose (Asian paint/ Berger paint/ ICI paint/ J& N		1		
		paint/ Nerolac).	sqm	110.10	5	
	13.9	SPECIAL WEATHER PROOF COLOURING			1	
12.6	13.9.5	Finishing wall with water proofing weather coat smooth antifungal				
12.0	13.9.3	exterior painting of Ace brand of Asian Paints and of required				
	1	shade on old/new wall surface after cleaning and clearing the				
	1	surface etc. including scaffolding complete as				
	1	directed at all levels (two coats)	sqm	188.73	3	
13		DOOR AND WINDOW FITTINGS	Jqm	100.7.		
	15.2	ALUMINIUM FITTINGS				
13.1	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved				
15.1	10.2.1	make, resonably smooth, free from sharp edges and corners, flaws				
		and other defects and with counter sunk holes for screws including				
		necessary aluminium screws				
		etc. complete.(anodised to bright natural matt & satin finished)				
13.1.1	A	Sliding door bolts				
	(ii)	250mm x16mm sliding door bolt.	Each		3	
13.2	В	Tower bolt				
	(iii)	200mm x 10mm tower bolt.	Each		8	
13.3	C	Door handles				
-5.5	-			1		
		150 mm	Each		8	
14		150 mm STEEL AND IRON WORKS	Each		8	
14	18.1	150 mm STEEL AND IRON WORKS REINFORCEMENT	Each		8	
		150 mm STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars	Each		8	
14	18.1	150 mm STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling	Each			
14	18.1	150 mm STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper	Each		8	
14	18.1	150 mm STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G	Each		8	
14	18.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks,	Each		8	
14	18.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.	Each		8	
14	18.1	The straight of the straight o	Each		8	
14	18.1	The street and length as per details, supplying and bending to proper shapes and length as per details, supplying and placing in position reinforcement bars conforming to relevant LS. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate)	Each		8	
14	18.1	The straight of the straight o	Each		8	
14	18.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)	Each			
14	18.1	The street and length as per details, supplying and bending to proper shapes and length as per details, supplying and placing in position reinforcement bars conforming to relevant LS. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate)	Each	43.3	0	
14	18.1	The state of the s		43.3		
14	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant L.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection ofspecification RSH/SHS		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Grade 210 including and (iii) M.S. circular hlollow section of Grade 210 including		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAL/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing		43.3		
14.1	18.1 18.1.1	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design		43.3		
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications.	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant Ls. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube		43.30		
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant L.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of specification RSH/SHS and (iii) M.S. circular hilollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant LS. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant LS. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant LS. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAL/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant L.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of specification RSH/SHS and (iii) M.S. circular hilollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with 1:4:8	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant LS. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick/ concrete works	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick/ concrete works etc.complete as directed by the department for all levels. (P.C.C.	Qtl			
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14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick/ concrete works etc.complete as directed by the department for all levels. (P.C.C. to be measured and paid for seperately).	Qtl			
14.1	18.1 18.1.1 18.3 18.3.2	STEEL AND IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS Providing, fitting, hoisting and fixing of roof trussesfabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of Specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications. Using other ISI marked approved brand tube DOOR FRAMES Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick/ concrete works etc.complete as directed by the department for all levels. (P.C.C.	Qtl			

15		PLINTH PROTECTION WORKS AND PERIPHERY				
15.1	19.2	Providing plinth protection with bricks flat laid in cement mortar 1: 4 and finished with 15mm thick cement plaster inprop. 1:2 with a floating coat of neat cement finish.	sqm	31.68		
15.2	19.5	Providing drain with brick work in cement mortar in proportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completionof work etc. as specified.				
		ii). 300mm wide and average 250mm deep with bed slope1 in 150 with initial depth of 100mm.	R.m	74.60		
16		ANTI TERMITE TREATMENT				
	26	PRE CONSTRUCTION ANTI - TERMITE TREATMENT				
16.1	26.1.1	Pre construction anti - termite treatment at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plinth beam, wall, trenches etc. by applying the emulsion @5 (five) litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				
		a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (tricel or euivalent) and water, i.e. 1% solution.	Sqm	27.00		
		TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

		GROW HOUSE				
1. Ar	ea of Grou	and floor = 31.00 M^2 .				
lte BOQ	em No.	Description of work	Unit	Qty.	Rate in Rupees	Amount in Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.		5.7	pccc	page
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	15.58		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least 750mm under ground and tied with wire or cane @ 1500 to 2000 c/c at least 3000 TO 4500 above plinth level.	Each	14.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to weather, tied with necessary bamboo kamis on both sides @300mm apart tied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows of bamboo tarja on bamboo frames.	Sq.m	74.10		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.				
	(b)	150 mm thick.	Sqm	39.38		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun grass of 75 mm thick (fine work) stiffened with bamboo slips of size 30mm x 6mm and tied with galvd. tying wire complete.	RM	8.95		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm x 38mm including tying to the purlins and rafters with cane slip or galvd. tying wire.				
	(a)	Fine work	Sqm	39.38		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	39.38		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane sling / Galvd. tying wire.				
	(a)	(a) With Bhaluka bamboo.	RM	107.40		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.	Sqm	9.00		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	39.38		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	39.38		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	31.00		
		TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

		DEMO HALL				
	a of Groun	d floor = 57.21 M^2 .				
	em No.				Rate in	
BOQ	APWD	Description of work	Unit	Qty.	Rupees	Amount in Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	25.58		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least 750mm under ground and tied with wire or cane @ 1500 to 2000 c/c at least 3000 TO 4500 above plinth level.	Each	24.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to weather, tied with necessary bamboo kamis on both sides @300mm aparttied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows of bamboo tarja on bamboo frames .		94.44		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.				
	(b)	150 mm thick.	Sqm	162.96		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun grass of 75 mm thick (fine work) stiffened with bamboo slips of size 30mmx 6mm and tied with galvd. tying wire complete.	RM	23.88		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm x 38mm including tying to the purlins and rafters with cane slip or galvd. tying wire.				
	(a)	Fine work	Sqm	162.96		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	162.96		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane sling / Galvd. tying wire.				
	(a)	(a) With Bhaluka bamboo.	RM	210.48		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.		32.72		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	162.96		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	162.96		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	57.21		
		TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

00 000	JD COOPERATIVE SOCIETY CIVIL TENDER							
<u> </u>		TRAINING & OFFICE		DING				
	ea of Grou							
ITEM N BOQ	O. APWD	DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN		
בטע	APWD	CIVIL WORKS						
1		EARTH WORK						
1.1	1.1	Earthwork in excavation for foundation trenches of walls						
		retaining walls, footings of column, steps, septic tank etc						
		including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling						
		dressing, watering and ramming etc. andremoval of surplus						
		earth with all lead and lifts as directed and specified in the						
		following classification of soils including bailing out water where necessary as directed and specified.						
		where necessary as uncered and specified.						
	(A)	Up to a depth of 2.00m below the existing ground						
		level.						
1.0	(a)	In ordinary soil	cum	25.63				
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150mm thick including necessary, carriage, watering, ramming etc.						
		complete as directed and specifiedincluding payment of land						
		compensation, ForestRoyalty, Sales Tax and other duties						
		and taxes as maybe necessary. (c) with river sand or silt (predominantlynon plastic) by truck carriage including						
		loading and unloading						
			cum	25.92				
2		NOMINAL MIX. (P.C.C. WORKS)						
2.1	2.1.1	Plain cement concrete works with coarse aggregate of size 13mm to 32mm in foundation bed for footings, tie beams						
		steps, walls, brick works etc. as directed and specified						
		including dewatering if necessary and curing complete						
		(shuttering where						
2.1.1	a)	necessary shall be measured and paid separately). In prop. 1 cement : 3 sand : 6 coarse aggregate by			I			
	/	volume	cum	6.14				
2.2	2.1.3	Providing and laying 25mm thick damp proof course with						
		cement concrete in prop 1: 1.5: 3 with graded stoneagg. Of 10mm down nominal size including providing approved						
		damp proof admixture in proportion as recommended by the						
		manufacturer including curing etc.complete as directed.						
3		REINFORECED CEMENT CONCRETE WORKS	sqm	3.20				
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete works						
		cement, coarse sand & 20mm down graded stone aggregate						
		including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced						
		cement concrete work (form work and reinforcement will be						
		measured and paid separately)						
	(I)	Using Miyar Machina						
3.1.1	(I) (A)	Using Mixer Machine In substructure up to plinth level						
3.2.1	(/	Foundation, footing, columns with base tie and plinth beam						
		pile cap, base slab, retaining walls, walls of septic tank						
		inspection pit and the like and other works not less than						
	N)	100mm thick up to plinth level. Without using admixture, plasticiser						
	(b)	M20 grade concrete	cum	7.17				
3.2	(B)	In super structure from plinth level up to 1st floor		1				
3.2.1	(;;)	level.						
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder,						
		bressumer, cantilever, staircase (except spiral staircase and						
		landing) including preparing the top surface and finishing of						
	N)	nosing. Without using admixture, plasticiser						
	(b)	M20 grade concrete	cum	9.12	T			
	` ′	-	,	7.12				

4		PLYBOARD SHUTTERING (FORMWORK)			
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in:			
4.1.1	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane vertical face	sqm	69.15	
4.1.2	3.2.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontalties.	Î		
		(a) For depth not exceeding 1.0M.	sqm	70.68	
4.1.3	3.2.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and thelike.			
		(a) Floors etc. upto 200mm in thickness.	sqm	32.04	
5.1	4.1.1	MASONARY WORK Providing soling in foundation and under floor with stone best quality picked jhama brick, sand packed andlaid to leve and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.			
5.2	4.1.4	(a).Brick on flat soling. Brick work in cement morter with 1st class brick	sqm	81.86	
5.2.1	4.1.4	including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary		T 610	
5.3	4.1.8	(d) In proportion 1:4 1st class brick nogged wall in cement mortar including	cum	6.19	
		racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall			
		(b) In cement mortar in proportion 1:5.(1 cement:5 sand)	sqm	61.36	
6		FLOORING AND FLOOR FINISH			
6.1	5.7.1.2	Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thickin prop. 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed (Cement plastering to be measured and paid separately) (Coloured pigment should be in conformity with colour o tiles and as approved and directed by the Department). (Walls means both interiorand exterior walls).			
		Somany/ Orient/Nitco/Asian Make i) Of size 200mmx300mm and above		20.07	1
6.2	5.7.2.1	Providing VITRIFIED floor tiles of approved quality o specified size, shape and thickness not less than 18mmor floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of thetiles, complete a all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department) a) Normal range Somany/Orient/Nitco/Varmora/VITA/Marbito/Make	sqm	20.97	
	(ii)	Of size 600mmx600mm and above	sqm	53.10	

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6.3	5.11.1	Providing Antiskid Tiles of approved quality size, shapenol less than 8mm on floor, skirting over a cement mortar bed 15mm thick of 1:3 (1 cement: 3 coarse sand)approved make fix with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/ white cement complete at all level as specified and directed. (A) CERAMIC				
		i)Normal range (Sizes 300 mm x 300mm and above)				
		(a)Orient made: Galaxy Brown, Galaxy creama, Galaxy				
		Pink, Galaxy Green, Pulsar Beige, Pulsar Blue,				
		Pulsar Dove, Pulsar Pink, Burj Brown, Burj				
		Green, Burj Slate	sqm	4.50	q	
	5.1	CEMENT CONCRETE FLOORING				
6.4	5.1.4	65 mm thick cement concrete floor consisting of 50 mmunder				
		layer of cement concrete in prop. 1:3:6 (1cement				
		: 3 coarse sand : 6 coarse aggregate of 25mm and down) and				
		15 mm thick wearing layer in cement concrete in prop. 1:1:2				
		(1cement :1 coarse sand : 2 coarse aggregate of size 10mm				
		down) laid in panels and finished with a floating coat of near				
		cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc.				
		complete as directed.				
		complete as directed.	sqm	12.60	n	
7		CEMENT PLASTERING	Sqiii	12.00	<u> </u>	
7.1	6.2.2	15 mm thick Cement plaster in single coat on single or half				
	V.=.=	brick wall for interior plastering up to 1st floor level including				
		arises, internal rounded angles, not				
		exceeding 80mm girth and finished even and smooth				
		including curing complete as directed.				
		A) On rough side				
		b) In cement mortar 1:4	sqm	71.00	0	
7.2	6.2.3	20 mm thick Cement plaster in two coats on single or half				
		brick walls for interior plastering up to 1st floor levelincluding				
		arises, internal rounded angles, chamfers and				
		/ or rounded angles not exceeding 80mm in girth and finished even and				
		smooth including curing complete as directed.				
		A) On rough side (backing coat 15 mm and finishingcoat				
		5mm thick)				
		b) In cement mortar 1:4	sqm	84.00	d	
7.3	6.2.5	Extra over item no 6.2.1 to 6.2.3 for plastering oncellingand	1			
		soffits of stairs up to 1st floor level (instead of plastering on				
		walls) including curing complete as directed.				
			sqm	33.00	0	
8		ROOFING				
8.1	8.1.35	Providing Pre Painted Galvalume Sheet Roofing(PPGL) at				
		all levels including fitting and fixing selfdrilling, self				
		tapping screws complete (Roof trusses, purlins etc. to be				
		measured and paid separately.) TATABlue scope/ Dyna roof / Durakolor /Wonder Roof orequivalent as directed by the				
		Departement				
		(ii) 0.45 mm thick	sqm	61.00	h	
8.2	8.1.36	Providing Pre Painted Galvalume Sheet (PPGL) accessories	Sqiii	01.00	1	
0.2	0.1.50	(Ridges / Valley / Gutter / Flashing) at all levels including				
		fitting and fixing self drilling, self tapping screws complete.				
		TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor				
		equivalent as directed by the Departement				
		(ii) 0.45 mm thick	R.m	21.00	q	
9		WOOD WORKS				
9.1	9.18.1	Providing, fitting and fixing factory made Santro Flush doo				
		shutters having core & cross bands fabricated fromseasoned				
		1st class timber, 25mm core battens, 2.5mm to 3.5mm				
		uniformly thick cross bands, styles & rails made fron				
		uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the				
		uniformly thick cross bands, styles & rails made fron				
		uniformly thick cross bands, styles & rails made fron hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolt etc. as specified and directed at all levels (Door fixtures and fittings to be				
		uniformly thick cross bands, styles & rails made fron hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolt etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)			,	,
		uniformly thick cross bands, styles & rails made fron hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolt etc. as specified and directed at all levels (Door fixtures and fittings to be	sqm	6.30	q	

ITEM N		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
BOQ	APWD					
10		GRILL				
10.1	10.2	Providing, fitting and fixing M.S. grill of required patternfor windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nutsor screws. I. Plain grill (c) Fixed to Brickwork/P.C.C/R.C.C.	kg.	281.00		
11		ALUMINIUM WINDOWS	Kg.	201.00		
11.1	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket roller, bolting device, locking arrangements, screws etc a required complete as specified and directed for all levels.				
11.1.1	(a)	2 track sliding windows		1 100		ı
11.1.2	(L)	(i) 6mm clear glass	sqm	1.08		
11.1.2	(b)	3 Track sliding window (i) 6mm clear glass	Ça m	12.96		
	12	PAINTING	Sq.m	12.90		
	13.3	PLASTER OF PARIS & WALL PUTTY				
12.1	13.3.4	Providing two coats of Birla White Wall Care Putty (Wate Resistant White Cement based putty for concrete/ morta walls and ceiling both internal andexternal) after removing al loosely adhering material from the wall surface with the help of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats it maximum 1.5mm)				
	(i)	Thickness = 1.5 mm thick	sqm	84.00		
	13.4	WALL PAINTING	sqiii	01.00		
12.2	13.4.1	Wall painting (two coats) with acrylic emulsion pain approved brand and manufacture (Asian paint/ Berger paint ICI paint/ J & N paint/ Nerolac) on new surfaceto give an ever shade after throughly brushing the surfaces free from morta droppings and other foreign matter and sand papered smooth. (a).Acrylic Emulsion Paint approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J &N				
12.3	13.4.5	paint/ Nerolac) Extra over item no 13.4.1 above for painting with acrylic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on celling and on sloping roof. (i).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)		71.00		
	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE				
12.4	13.7.2	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by throughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.				
		a). With ready mixed "red-lead/ red oxide" primer.	sqm	30.00		
12.5	13.7.4	Painting two coats (excluding priming coat) on new steeland other metal surface with enamel paint ofapproved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI				
		paint/ J & N paint/ Nerolac).	sqm	30.00		
	13.9	SPECIAL WEATHER PROOF COLOURING	1			I
				Ciar		

12.6	13.9.5	Finishing wall with water proofing weather coat smoothanti- fungal exterior painting of Ace brand of Asian Paints and of required shade on old/new wall surface after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	sqm	84.00		
BOQ	O. APWD	DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
13	AITT	DOOR AND WINDOW FITTINGS				
	15.2	ALUMINIUM FITTINGS				
13.1	15.2.1	Supplying, fitting, fixing anodised aluminium fittings o approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)				
13.1.1	(ii)	Sliding door bolts 250mm x16mm sliding door bolt.	Each	1		
13.2	В	Tower bolt	Eacii	1		
10.2	(iii)	200mm x 10mm tower bolt.	Each	6		
13.3	С	Door handles				
		150 mm	Each	6		
13.4		1) Hydraulic door closure	Each	2		
13.5		t) Door stopper with rubber stopper	Each	2		
14	18.1	STEEL AND IRON WORKS REINFORCEMENT				
14.1	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed blackwire and placing ir position with proper blocks, supports, chairs, spacers etc complete. (No extra measurement for lap, hook, chair, anchor etc.will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)				
	18.3	b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS	Qtl	5.82		
14.2	18.3.2	Providing, fitting, hoisting and fixing of roof trusses fabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollow section of specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications.				
	(b)	Using other ISI marked approved brand tube	Qtl	17.00		
14.3	18.7 18.7.2	Providing, fitting and fixing powder coated pressed steedoo frame made of 1.25mm/ 1.6mm thick sheet of various size with necessary hinge jamb, lock jamb, head and steel base tie at the bottom of the frame. Thewhole frame shall be welded o rigidly fixed together by mechanical means with base ties o pressed mild stee angle of size 20x20x1.25mm thick. Frame to be filled upwith 1:4:8 P.C.C. after fitting the frame with brick concrete works etc.complete as directed by the department fo all levels. (P.C.C. to be measured and paid for seperately).				
		(iii) Size 125mm x 60mm (Single rebate)	R.m	16.00		
15		PLINTH PROTECTION WORKS AND PERIPHERY				
15.1	19.2	Providing plinth protection with bricks flat laid in cemen mortar 1: 4 and finished with 15mm thick cement plasterin prop. 1:2 with a floating coat of neat cement finish.	sqm	40.00		
		1				1

15.0	10.5	D. 12. 1.1. 14. 1.11				
15.2	19.5	Providing drain with brick work in cement mortar in				
		proportion 1:5 with half brick thick side walls and 100mm				
		thick C.C (1:3:6) base over one brick flat soling including				
		15mm thick cement plastering in prop. 1:3 finished with a				
		floating coat of cement slurry as directed with necessary				
		shttering for sides and earth work in excavation of foundation				
		trenches and refilling the sidesafter completion of work etc. as specified.				
		specified.				
		ii). 300mm wide and average 250mm deep with bed				
		slope 1 in 150 with initial depth of 100mm.	R.m	71.80		
ITEM N		DESCRIPTION OF WORK	Unit		Dame na Damero	AMOUNTER
BOQ	APWD	DESCRIPTION OF WORK	UNII	QTY.	RATE IN RUPEES	AMOUNT IN
16	AFWD	ANTI TERMITE TREATMENT				
10	26	PRE CONSTRUCTION ANTI - TERMITE TREATMENT				
16.1	26.1.1	Pre construction anti - termite treatment at the bottom o				
10.1	20.1.1	foundation pits and walls on either side up to a height o				
		300mm from bottom of the excavation made for column plint				
		beam, wall, trenches etc. by applying the emulsion @ 5 (five				
		litres per square meter of the surface area before starting				
		construction work (supplying of necessary tools and				
		accessories by the				
		contractor) as per the direction of the Department				
		complete.				
		a) with aqueous emulsion having concentration 1:19 with				
		chloropirophose solution (tricel or euivalent) and water, i.e.				
		1% solution.	Sqm	14.00		
17		FIRE EXTINGUISHER				
17.1	29.2.2	Supply, Installation, Fixing of DRY CHEMICAL POWDER			<u> </u>	
		Fire Extinguisher confirming to IS: 2171 with ISI mark and				
		CO2 cartridge will be confirming to IS:				
		4947 with ISI mark, Powder will be confirming to IS: 4308		2.00		
		with ISI Mark (10 kg)	Each	2.00		
1	B 1.1	SANITARY WORKS				
1	1.1	Providing fitting and fixing vitreous water closet squatting pan (Indian type W.C Orissa pattern) with all fittings and				
		fixtures complete including cutting and making good to the				
		walls and floors whereever required.(Flushing Cistern to be				
		paid separately)				
	1.1.3	Vitreous water closet squatting pan Indian type W.COrissa				
	1.1.5	pattern of size 580 x 450 mm				
		a) White				
		ii)Hindware make	Each	2		
2	1.5	Supplying, fiting and fixing PVC flushing cistern with al	Eacii	2		
2	1.5	internal fittings with CI brackets including fitting and fixing				
		standard size CP flush pipe, union clamps etc. compete a				
		directed and specified (pipes will be				
		measured separately)				
		ii) Hindware make				
		a) White				
		(i) Sleek+ PVC cistern	Each	2		
3	1.13	Providing vitreous China wash basin with CI/MS brackets.				
		C.P brass chain with plug,PVC waste pipe including painting				
		of fittings and brackets, cutting and making good the walls				
		wherever required. (Pillar cock, stop cocks, waste coupling				
		are to be paid separately)				
	1.10.	DACINI (mish out no doct 1)				
	1.13.2	BASIN (without pedestal)				
		(B) Hindware Make				
		(a) White				
<u> </u>		(i) Alto 510 x 400 (Cat. No.10091)	Each	2		
4	1.18	Providing fitting and fixing Mirror with plastic frame of				
		size 500x400mm complete as directed and specified.	Foot	2		
	1 22		Each	2		
5	1.22	Providing, fitting and fixing CP soap tray / soap dish				
		complete as directed and specified.				
		(i) Jaquar Make				Г
		(a) Continental (Cat.No.ACN-1331N)	Each	2		
6	1.24	Providing, fitting and fixing CP towel rail complete as	_			
		directed and specified.				

1	l	(b) Sona make				
		(iii) Towel rail diplomat 600mm long (Cat.No.TR-0605)				
		(m) Tower tail apromat occurring (came to the occo)	Each	2		
7	1.26	Providing, fitting and fixing Chrome Plated towel ring			L	L
		complete as directed and specified.				
		(b) Sona make				
		(i) Towel ring round (Cat.No.TR-06051)	Each	2		
8	1.27	Providing, fitting and fixing Chrome Plated robe hook				
		complete as directed and specified.				
		(b) Agmeco make				
		(vi) Dolfee (Cat.No.DE-00211)	Each	2		
9	1.32	Providing, fitting and fixing Chrome Plated wastecoupling				
		complete as directed and specified.				
		(b) Sona		_	T	T
		(i) Rupa 32mm (HT/FT) (Cat.No.WS-0801)	Each	2		
10	1.34	Providing, fitting and fixing Chrome Plated bottle trap				
		pipe complete as directed and specified.				
		(a) Sona make				
		(i) Pipe for bottle trap 300mm long (Cat. No.BT-0761)	Each	2		
11	1.37.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2				
11	1.37.1	(Supreme/Prince) or other ISI approved including joining				
		, fitting and fixing wish clamps etc.as necessary				
		complete at all levels including below G.L as directed and				
		specified.				
	(a)	In exposed surfaces or in trenches.				
	(ii)	110mm dia.	R.m	15.00		
12	1.37.3	Supplying fiting and fixing 87.5 degree PVC bend with doo				
		of (Supreme/Prince) or other ISI approved including joining				
		, fitting and fixing etc. as necessary				
		complete at all levels including below G.L. as directed and				
1		specified.				
	(a)	specified. In exposed surfaces or in trenches.				
	(a) (ii)	In exposed surfaces or in trenches. 110mm dia.	Each	4		
13		In exposed surfaces or in trenches.	Each	4		
13	(ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining	Each	4		
13	(ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level	Each	4		
13	(ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and	Each	4		
13	(ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified.	Each	4		
13	(ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches.				
	(ii) 1.37.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia.	Each	4		
13	(ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make				
	(ii) 1.37.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified.	Each	4		
14	(ii) 1.37.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make				
	(ii) 1.37.6 1.39 (ii) 1.42	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating	Each Each	4 2		
14	(ii) 1.37.6 1.39 (ii) 1.42 (ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia	Each	4		
14	(ii) 1.37.6 1.39 (ii) 1.42 (ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS	Each Each	4 2		
14	(ii) 1.37.6 1.39 (ii) 1.42 (ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia	Each Each	4 2		
14	(ii) 1.37.6 1.39 (ii) 1.42 (ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass	Each Each	4 2		
14	(ii) 1.37.6 1.39 (ii) 1.42 (ii)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m	Each Each	4 2		
14	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe	Each Each	4 2		
14 15 1	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches.	Each Each	2 4		
14 15 1 1.1 1.1.1	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe	Each Each R.m	4 4 10.00		
14 15 1 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe	Each Each	2 4		
14 15 1 1.1 1.1.1	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making	Each Each R.m	4 4 10.00		
14 15 1 1.1.1 1.1.1 1.1.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.1 1.1.2 1.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.2 1.2 1.2.1 1.2.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a) (b)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.1 1.1.2 1.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe Supplying fitting and fixing C.P. bib cock 15mm dia of	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.2 1.2 1.2.1 1.2.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a) (b)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.Ppipes	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.2 1.2 1.2.1 1.2.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a) (b) 3.2.1	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe 20 mm nominal outer dia pipe Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.Ppipes will be measured separately)	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.2 1.2 1.2.1 1.2.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a) (b)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe 20 mm nominal outer dia pipe Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.Ppipes will be measured separately) Agmeco brand	Each Each R.m R.m	4 2 4 10.00 10.00		
14 15 1 1.1.1 1.1.2 1.2 1.2.1 1.2.2	(ii) 1.37.6 1.39 (ii) 1.42 (ii) C 3.1.6 A (c) (f) B (a) (b) 3.2.1 (IV)	In exposed surfaces or in trenches. 110mm dia. Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. 110mm dia. PVC cowel of ISI make C.P. Grating 110 mm dia INTERNAL WATER SUPPLY WORKS Providing and fixing Chlorinated Polyvinyle Chlorid (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe In exposed surfaces or in trenches. 25 mm nominal outer dia pipe 50 mm nominal outer dia pipe Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe 20 mm nominal outer dia pipe Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.Ppipes will be measured separately)	Each Each R.m R.m	4 2 4 10.00 10.00		

3	3.3.2	Supplying fitting and fixing chrome plated (C.P.) stop- cool of approved brand and size as mentioned below as directed and specified.(G.I. & C.P pipes will be measured and paid separately)				
	(II)	Agmeco Brand				
3.1	(a)	15mm dia(Male/ Female)	Each	4		
3.2	(b)	15mm dia(Concealed)	Each	2		
4	3.5.1	Supplying and fitting fixing C.P. pillar cock of 15mm dia of approved brand as specified and directed.				
	(III)	Agmeco (classic)				
	(a)	Flat	Each	2		
		TOTAL COST OF BUILDING CIVIL WORKS				
			•		SAY	

	BOQ for Engineering, Design and Achitect and			_	Ι.
S.No	Description	Unit	Qty	Rate	Amount
1	Architectural Drawings, Design and Documentation				
	Services ; based on the outline drawings provided				
	consists of further design development drawings and				
	Construction Documents culminating in the following				
	(as applicable to the project):				
	 Architectural Cover Sheet (Project Data, Maps, 				
	Notes, etc.)				
	 Architectural Site Plan and Details 				
	 Architectural Floor Plan (Dimensioned with notes, 				
	wall types, key notes, etc.)				
	 Door Types, Door & Hardware Schedules, Interior 				
	Door and Window Details, etc.				
	Exterior Door and Window Details				
	Roof Plan and Details				
	Building Sections Malla Captions				
	Walls Sections Building Elevations				
	Interior Elevations (Cabinet and Room)				
	Millwork Details				
	Reflected Ceiling Plan and Details				
	Equipment Plan and Notes				
	Project Manual/Specifications Book				
2	Civil Engineering Drawings: Topographic and Tree				
	Survey, plus Geotechnical Testing (Soils – if needed)	Lot	1		
	to be performed prior to commencement of the	Lot	'		
	work.				
3	Structural Engineering Drawings:				
	 Foundation Plan (with Details and Notes) 				
	• Framing Plans (Details, Roof and Special Conditions)				
4	MEP Engineering Drawings (Mechanical, Electrical				
	and Plumbing): • Mechanical Plan (HVAC with				
	Equipment Schedules and Details)				
	• Electrical Plans (Power, Lighting, Fixture Schedules,				
	and Details)				
	 Plumbing Plans (Wastewater, Venting, Domestic 				
	Water, Air, Vacuum and Medical Gases); also,				
	Plumbing Riser Diagrams with Plumbing Notes and				
	Schedules.				
5	Interior Design Drawings (Furniture, Art and	-			
	Accessories): • Floor Finish Plan and Finish Schedule				
	3D design of the final approved plan				
6.	CONSTRUCTION ADMINISTRATION & OTHER				
	REQUIREMENTS:				
	a Initial Cita Visit/Dua Cometuration followed by				
	Initial Site Visit/Pre-Construction followed by regular Site Visite based an completion of work to be				
	regular Site Visits based on completion of work to be	1.64	4		
	observed	Lot	1		
	Certificate of interim construction completion Final Japanetics (at completion of work)				
	Final Inspection (at completion of work) Contificate of final completion of construction				
	Certificate of final completion of construction The Consultant shall assent full responsibility to				
	The Consultant shall accept full responsibility to			L	

comprehend and verify the required Deliverables as stated in the Scope of Work and provide all information as described above. The Consultant shall be knowledgeable of the project site, its conditions, and all other constraints that may impact the fee. • The Consultant shall understand all administrative approvals that will be required for the project. • The Consultant shall complete the Design and support in Bid Documents in accordance with the Scope of Work, Budget, and Schedule. • To minimize errors and omissions, the Consultant shall perform a comprehensive internal Quality Control (QC) of all design documents prior to the issuance of all Conceptual Plan for preparation of Bid Documents. • The Consultants design and construction administration team shall remain consistent throughout the duration of the project. All drawing and construction reports to be certified by a registered Architect			
TOTAL	Lot	1	

SUMMARY OF ELECTRICAL WORKS FOR

PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR,
NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for
Electrical Works 2013-14

Amount

- 1 TOTAL INTERNAL ELECTRICAL WORKS OF OFFICE BUILDING
- 2 TOTAL INTERNAL ELECTRICAL WORKS OF VALUE ADDITION AREA BUILDING
- 3 TOTAL INTERNAL ELECTRICAL WORKS OF BAG MAKING SECTION BUILDING
- 4 TOTAL INTERNAL ELECTRICAL WORKS OF SPAWN MAKING SECTION BUILDING
- 5 TOTAL INTERNAL ELECTRICAL WORKS
- **6 TOTAL EXTERNAL ELECTRICAL WORKS**
- 7 Total Internal and External Electrical (Rs.)

MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14 **BAG MAKING SECTION** Description APWD SL Units Otv Rate Amount No. NO. SCHEDULE ITEMS A. PART - 2 Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable 2.1 Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductorfor voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/MS switch board (ISI marked) with phenolic laminated sheet cover ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete 2 1 1 Short point up to 3.00 metre. length. Each 2.1.2 Medium point up to 6.00 metre. Length. Each 20 2.1.3 10 Long point up to 10.00 metre. Length. Each 2.2 Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single 2 core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductorfor voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed 2 mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system including 5 pin 6 Amps flush type plug socket and 6 Amps F/T switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete, when placed elsewhere. 2.2.2 Medium point up to 6.00 metre. Length. Each Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated 3 24 single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm.dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia) Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) 2.4.1 Extra long point up to 15.00 metre. length. Each Extra long point up to 20.00 metre. Length. 2.4.2 Each 2.4.3 Extra long point up to 25.00 metre. Length. Each

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK,

Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
4	2.10		Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990				
			with flexible bright annealed electrolytic copper conductor for voltage grade				
			up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make				
			as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta				
			Gold medal Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush typeswitch (Anchor penta Gold medal				
			/Kolor kany.Kom/Havells or equivalent make as approved by the				
			Deptt.)make) earthing the 3rd pin of the socket as required on the switch board				
			in surface/ recessed P.V.C. conduit wiring system. When fitted on same				
			board of light and fan.	Each	1		
5.	2.7		Wiring for drawing sub-main line with P.V.C. insulated single core				
٥.	2.7		unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990				
			with flexible bright annealed electrolytic copper conductor for voltage grade				
			up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make				
			as approved by the Deptt.) PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by				
			the Deptt.) including earth continuity in surface recessed 20 mm. dia.				
			2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit wiring system.				
		2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm.				
			dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	70		
		2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	130		
6.	2.9		Wiring for drawing sub-main line with P.V.C. insulated single core				
			unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade				
			up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make				
			as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm				
			thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/				
			AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
		2.9.3	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	90		
		2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	85		
	PART	-15	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) (Havells,	& (SCH	NEIDEF	R NEO BRI	EAK, C&S,
	1	Т	INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY	THE DI	EPTT.)		
7.	15.8		MCB IN-comer TPN (Horizontal DB) Supplying with fitting and fixing sheet steel, phosphatised, powder painted				
			dust & vermin proof Double door IP-43 double door surface mounting TPN				
			MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc				
			fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and				
			directed by the deptt.				
		15.8.1	ABB, Schneider MG, legrand, Hager make)	г .		1	
		15.8.1.1 15.8.1.3	4 way TPN (4+12) double door 8 way TPN (4+24) double door	Each Each	1		
	PART		MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRANI		HAGER	R MAKE) 8	દ
			(SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL O	R EQUI	VALEN	T MAKE A	S PPROVED
			BY THE DEPTT.) MCB (Conform to IS / IEC 60898-1:200/ MCCB (Conform to IS/IEC 60947- RC	CCB (Co	nform to	IS/IEC 1264	40 / 61008)
8.	16.1		Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz	(- 0			,
			MCB of the following capacity complete with making necessary connection				
	 	16.1.2	as approved, specified and directed by the deptt. C Series				
	i	10.1.2	(Schneider MG, legrand, Hager make)				
			6 to 22 A	Each	12		
		16.1.2.1	6 to 32A				
	16.5	16.1.2.1 16.1.2.2	40A	Each	0		
9.	16.6		40A Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the				
9.	16.6		40A				
9.	16.6		40A Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as				

Sl	APW	D SI	Description	I Inita	04	Dete	Amount
No.	NO.	D SL	•	Units	Qty	Rate	Amount
	PART	-22	EARTHING				L
10.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction				
			of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt	Each	2		
11.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pitto provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		
12.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		20		
	PART	-32	U. G. CABLE AND CABLE WORKS				•
13.	32.11	22.114	Supply and laying of following size Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, unarmoured/Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 laid in air or through existing cable trench/ duct/ cable tray/ HDPE pipe including fitting required size of lugs at the both end of the cable by using crimping tool and making good damaged done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make).				
		32.11.4	Core - 3.5A2XFY				
TEN	IS APP		25 Sq.mm 3 and 1/2 core armoured cable BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDMAR	Metre I, GUW	50 AHATI-	3 ON DAT	 ED 09-09-20
14.		4		Each	2		
15.		10	Supplying, fitting fixing of LED Batten Tubes high quality aluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department.				
		b)	BN021C LED 20 PSU CW GR S2 [TL]	Each	40		
		0)					
		0)	Total of Schedule Items (A)				
16.		0)	Less 5% VAT added in SOR				
16. 17.							

Sl	APWD SL	Description	Units	Qty	Rate	Amount
No. NO.			Cints	Qij	Rate	Amount
	В.	NON-SCHEDULE ITEMS				
20.		MAIN LT PANEL-[BAG MAKING SECTION BUILDING]				
	Analysis	Supplying and installation of metal enclosed wall/floor mounted front				
		operated cubical type switch gear panel suitable for indoor installation				
		conforming to IS: 8623 (Part I & II). Panel should be made of sheet steeland				
		thickness not less than 2mm and structural steel having light section. The				
		panel shall be completely dust tight and vermin proof and shall be painted with				
		anti corrosive and anti condensation type two coats of primer and two coats				
		of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt				
		grade of required size. The panel should have provision of entry of cable at				
		the bottom and also provision of out going feeders from the bottom of the panel.				
		The panel shall be incorporated with double busbar system. The bus bar shall				
		be of high quality copper of uniform cross section. The panel shall consist of				
		the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector				
		switch etc.) connected as per drawing and shall be flush mounted on the front				
		of the panel.				
		of the paner.				
			Set	1		
		Incommer:				
	a)	160 A ,4P, MCCB, 25 KA - 1 No.				
	b)	Digital Ammeter - 1 No.				
	c)	Digital Voltmeter - 1 No.				
	d)	CT 160/5 -1 Sets.				
	e)	Switch Fuse Unit - 3 Nos				
	f)	Selector Switch - 2 Nos				
	g)	LED Indicating Lamp 1 Set				
	h)	Bus-Bars: 320 A TPN electrolytic Copper Bus Bar of uniform cross-				
		section (40mmx5mm) – 1 set				
		Outgoing:				
	i)	63A 4P MCCB 25 KA – 2 Nos.				
	j)	40 A 4P MCCB 25 KA – 2 Nos.				
	k)	40 A 4P MCB – 1 No.				
	1)	32 A 4P MCB – 4 Nos.				
	m)	32 A DP MCB – 8 Nos.				
	n)	25A DP MCB -1 No.				
21.		Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage	C - M	2		
22		grade Supply Fitting Fixing of Shock Treatment Chart	Sq.M	2		
22.		Supply, Fitting Fixing of Shock Treatment Chart	Each	2		
		Total Non-Schedule (D) GRAND TOTAL [SCHEDULE ITEMS (A)+NON-SCHEDULE(B)]			Rs.	

MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14 **SPAWN MAKING SECTION** SI APWD SL Description Units Otv Rate Amount No. NO. **SCHEDULE** ITEMS PART - 2 Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable 1 2.1 Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete 2.1.1 Short point up to 3.00 metre. length. Each Medium point up to 6.00 metre. Length. 2.1.2 19 2.1.3 Long point up to 10.00 metre. Length. Each 12 2 24 Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq.mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) 2.4.1 Extra long point up to 15.00 metre. length. Each 2.4.2 Each Extra long point up to 20.00 metre. Length. Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core 2.10 unsheathed industrial (Multistrand) cable FR conforming to IS- 694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and Each CIRCUIT WIRING 4. 2.7 Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid conduit wiring system. 2.7.1 With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. RM 70 With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 2.7.3 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. RM

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK,

5.	2.9		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
		2.9.3	With 4 x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	200		
		2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40				
	PART	-10	mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. FITTINGS AND ACCESSORIES (ALL PRODUCTS SHOULD E ENVIRONMENT EDIENDA VO	Metre. BE ENE	200 ERGY E		AND
	11.12		Supplying and fixing of polished Brass Bracket of 18 S.W.G, 25 cm long cast back plate and brass lamp holder complete including connection as approved by the Deptt.) as required Without Lamp. [BK]		1		
	PART	- 14	SWITCH GEAR & PROTECTION INDUSTRIAL SOCKETS, DB WITHOUT MCB & MCCB, MCE ETC. (C&S. Havelle, INDOASIAN, HDL, OR FOUNDALENT or appropried by				ANGE OVER
7.	14.1		(C&S, Havells, INDOASIAN, HPL OR EQUIVALENT as approved b Supplying fitting and fixing industrial Plug & Socket in surface mounting		epu.)M	AKE)	
	1111		SPN sheet steel powder painted MCB DB incorporated with MCB DIN rail, neutral link Earth bar of the following rating of DP MCB complete with making necessary connection etc. as specified and directed by the Deptt.				
		14.1.1	20A Capacity. (C&S, Havells, INDOASIAN, HPL or equivalent as	Each	2		
	PART	`-15	approved by the Deptt.)make) MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE)	& (SC	HNEID	ER NEO BR	EAK, C&S,
			Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY	тикі)FPTT)	
			MCB IN-comer SPN DB		<u> </u>)	
8.	15.8	15 0 1	MCB IN-comer TPN (Horizontal DB) Supplying with fitting and fixing sheet steel, phosphatised, powderpainted dust & vermin proof Double door IP-43 double door surface mounting TPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
		15.8.1 15.8.1.1	ABB, Schneider MG, legrand, Hager make) 4 way TPN (4+12) double door	Each	1		
	PART		MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRAN (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL CBY THE DEPTT.) MCB (Conform to IS / IEC 60898-1:200/ MCCB (Conform to IS/IEC 60947- Recomplete in the conform to IS/IEC 60947- Recomplete in the conformation in th	D, ANI DR EQU	JIVALE	ENT MAKE	AS PPROVED
9.	16.1	16.1.2	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt. C Series				
		16.1.2.1	(Schneider MG, legrand, Hager make) 6 to 32A	Each	12		
10.	16.3		Supplying with fitting and fixing DP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.	Eacii	12		L
		16.3.2	C Series (ABB, Schneider MG, legrand, Hager make)				
	D	16.6.2.2	40A	Each	1		
11.	PART 22.7	-22	EARTHING Supply, installation & testing of G.I. earth station with perforated 40 mm dia				
			and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt.		2		
12.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pitto provide low impedance ground in location of high soil resistivity as				

Sl No.	APWD SL NO.		Description	Units	Qty	Rate	Amount
13.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply				
			of G.I. nuts & bolts, screws etc including riveting, soldering & making				
			necessary connection as approved, specified and directed by the deptt.	R.M.	20		
	PART	- 27	CEILING FAN, EXHAUST FAN AND AIR CURTAIN	1			
14.	27.2		Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.) as required complete and as directed by the Department.				
		27.2.1	Domestic				
		27.2.1.12	Ventil Air DB 300 mm sweep (Havells make) [EF]	Each	1		
	TEMS . 019	APPROV	ED BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDM	IARI, (GUWAH	HATI-3 ON	DATED 09-09
15.		4	Supplying, installation, testing and Commission of the following indoor Decorative Recess mounted LED down lighter luminaries of model no LESP01R009XC / LESP01R009XN /LESP01R009XW / L00957R000 / L00940R000 / L00930R000 /LD90-111 - XXX-65-XX complete with all accessories such as ballast, starter etc. In the false ceiling type Armstrong /Gypsum or similar ceiling mounting with necessary support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required and as directed by the department (Jaquar / LT / Wipro make). [CL]	Each	8		
16.		10	Supplying, fitting fixing of LED Batten Tubes high quality aluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department.				
		a)	B118601000 [FL]	Each	5		
17.		10	Supplying, fitting fixing of LED Batten Tubes high quality aluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department.				
		b)	BN021C LED 20 PSU CW GR S2 [TL]	Each	21		
18.		6	Supplying fitting & fixing of LED Bulb non-dimmable in the existing batten / angle holder as required and as directed by the department (Jaquar or eqvt. make).				
		C)	Prima Series Bulb 9W	Each	1		
			Total of Schedule Items(A)				
19.			Less 5% VAT added in SOR	•			
			Total of Schedule Items less 5% VAT (B)				
20.			Add 7% GST				
		<u> </u>	Total of Schedule Items (C)				

Sl APWD SL NO.		Description	Units	Qty	Rate	Amount
	В.	NON-SCHEDULE ITEMS				
21.		MAIN LT PANEL-[SPAWN MAKING SECTION BUILDING]				
Aı	nalysis	Supplying and installation of metal enclosed wall/floor mounted front				
		operated cubical type switch gear panel suitable for indoor installation				
		conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel				
		and thickness not less than 2mm and structural steel having light section. The	:			
		panel shall be completely dust tight and vermin proof and shall be painted with				
		anti corrosive and anti condensation type two coats of primer and two coats				
		of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt				
		grade of required size. The panel should have provision of entry of cable at				
		the bottom and also provision of out going feeders from the bottom of the panel.				
		The panel shall be incorporated with double busbar system. The bus bar shall				
		beof high quality copper of uniform cross section. The panel shall consist of				
		the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector				
		switch etc.) connected as per drawing and shall be flush mounted on the front				
		of the panel.				
			a .			
		Incommer:	Set	1		
	a)	100 A ,4P, MCCB, 25 KA - 1 No.				
	b)	Digital Ammeter - 1 No.				
	c)	Digital Voltmeter - 1 No.				
	(d)	CT 100/5 -1 Sets.				
-	e)	Switch Fuse Unit - 3 Nos				
-	f)	Selector Switch - 2 Nos				
	g)	LED Indicating Lamp 1 Set				
	h)	Bus-Bars: 220 A TPN electrolytic Copper Bus Bar of uniform cross-				
	1.7	section (25mmx4mm) – 1 set				
		Outgoing:				
	i)	40 A 4P MCCB 25 KA – 1 No.				
	j)	40 A 4P MCB – 1 No.				
	k)	32 A 4P MCB – 12 Nos.				
	1)	25A DP MCB -3 Nos.				
22.		Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2		
23.		Supply, Fitting Fixing of Shock Treatment Chart	Each	2		
.3.		Total of Non-Schedule Item (B)	Еасп		1	
		Total of Non-Schedule Rem (D)				

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14

VALUE ADDITION AREA

			VALUE ADDITION AREA							
Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount			
A. PART - 2			A. SCHEDULE ITEMS							
1	2.1		Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) Gl/ MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete							
		2.1.1	Short point up to 3.00 metre. length.	Each	8					
		2.1.2	Medium point up to 6.00 metre. Length. Long point up to 10.00 metre. Length.	Each Each	11 9					
2	2.4		Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), Gl/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.)							
		2.4.1	Extra long point up to 15.00 metre. length.	Each	3					
3	2.10	2.4.2	Extra long point up to 20.00 metre. Length. Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS- 694: 1990 with flexible bright annealed electrolytic copper conductorfor voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and		1					
4.	2.7		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit wiring system.							
		2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	90					
		2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM						

Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
5.	2.9		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigidPVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
		2.9.3	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	80		
	PART	2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY			ER NEO BI	REAK, C&S,
			MCB IN-comer TPN (Horizontal DB)			·/	
6.	15.8	15 0 1	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door IP-43 double door surface mounting TPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.		1		ı
		15.8.1	ABB, Schneider MG, legrand, Hager make)	Fooh	1		
		15.8.1.1	4 way TPN (4+12) double door 8 way TPN (4+24) Double Door	Each Each	1		+
	PART		MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRAN (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL OBY THE DEPTT.) MCB (Conform to IS/IEC 60898-1:200/ MCCB (Conform to IS/IEC 60947- R	ND, AN	UIVALI	ENT MAKE	AS PPROVED
7.	16.1		Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		_		_
		16.1.2	C Series (Schneider MG, legrand, Hager make)				
		16.1.2.1	6 to 32A	Each	12		
8.	16.6	16.1.2.2	Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.	Each	0		1
		16.6.2 16.6.2.2	C Series (ABB, Schneider MG, legrand, Hager make) 40A	Each	1 1	T	
	PART		EARTHING	Each	1		
9.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the		2		
10.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pitto provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		
11.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		20		
	PART	-32	U. G. CABLE AND CABLE WORKS				
12.	32.11	32.11.4	Supply and laying of following size Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, unarmoured/Armour (Aluminium for singlecore up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steelstrip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 laid in air or through existing cable trench/ duct/cable tray/ HDPE pipe including fitting required size of lugs at the both end of the cable by using crimping tool and making good damageddone as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make). Core - 3.5A2XFY				
		32.11.4.1	25 Sq.mm 3 and 1/2 core armoured cable	Metre	70		

CIVIL TENDER

32.11.4.5 95 Sq.mm 3 and 1/2 core armoured cable Metre SI **Description** APWD SL Units Qty Rate Amount No. NO. ITEMS APPROVED BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDMARI, GUWAHATI-3 ON DATED 09-09-2019 Supplying, fitting fixing of LED Batten Tubes high quality aluminium 13. extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department. BN021C LED 20 PSU CW GR S2 [TL] Each Total of Schedule Items (A) 25. Less 5% VAT added in SOR Total of Schedule Items less 5% VAT (B) 26. Add 7% GST Total of Schedule Items (C) B. NON-SCHEDULE ITEMS MAIN LT PANEL-[VALUE ADDITION BUILDING] Supplying and installation of metal enclosed wall/floor mounted front Analysis operated cubical type switch gear panel suitable for indoor installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall be incorporated with double busbar system. The bus bar shall beof high quality copper of uniform cross section. The panel shall consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector switch etc.) connected as per drawing and shall be flush mounted on the front of the panel. Incommer: 250 A ,4P, MCCB, 36 KA - 1 No. a) b) Digital Ammeter - 1 No. Digital Voltmeter - 1 No. c) d) CT 250/5 -1 Sets. Switch Fuse Unit - 3 Nos e) f) Selector Switch - 2 Nos LED Indicating Lamp 1 Set g) Bus-Bars: 480 A TPN electrolytic Copper Bus Bar of uniform crosssection (30mmx10mm) - 1 set **Outgoing:** i) 125A 4P MCCB 25 KA - 1 No. 63A 4P MCCB 25 KA – 2 Nos. 40 A 4P MCCB 25 KA – 2 Nos. j) k) 40 A 4P MCB – 3 Nos. 1) 32 A 4P MCB - 2 Nos. m) 25A DP MCB -3 Nos. n) 28. Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage Sq.M grade Supply, Fitting Fixing of Shock Treatment Chart 29. Each Total of Non-Schedule Items (D) GRAND TOTAL [SCHEDULE ITEMS (C)+NON-SCHEDULE(D)] Rs.

Estimated cost of ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14

			EXTERNAL ELECTRICAL WORKS		·				
Sl No.	APWI	SL NO.	Description	Units	Qty	Rate	Amount		
	Α.		SCHEDULE ITEMS						
	PART-	22	EARTHING		T				
1.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt.		6				
2.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pit	Each	0				
			to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	6				
3.	22.10		Supply, installation & testing of Copper Plate earth station with 600 mmx600 mmx3 mm copper earth plate with necessary 40 mm dia. G.I. medium duty watering pipe with G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement with 300 mmx300 mmx6 mm C.I. hinged cover plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as						
			specified and directed by the deptt .	Set	4				
4.	22.13		Extra for using salt (5 K and Charcoal (96 K in G.I./Copper plate Earth Station pit to provide low impedance ground in location of highsoil resistivity as and when required and specified by the deptt.	Set	4				
5.	22.15		Supplying & laying of 6 SWG G.I. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.		150				
6.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and						
			directed by the deptt.	R.M.	120				
7.	22.24		Supplying & laying of 25X5mm size Copper strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of Brass nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		60				
	PART -	-32	U. G. CABLE AND CABLE WORKS	14.141.	00				
8.	32.1	32.1.2	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Niccol Havells/RPG/CCI/Polycab/Gloster/Finolex make).						
			6.00 Sq.mm 3 Core armoured U.G. cable	Metre	60				
		32.1.3	3 & 1/2 Core A2XFY 70 00 Sq. mm 3 & 1/2 Core armoured U.G. cable	Motes	40				
			70.00 Sq. mm.3 & 1/2 Core armoured U.G. cable 120.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre Metre	40				
			300.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	160				
			4 Core A2XWY A2XFY						
		32.1.4.4	16.00 sq mm 4 Core armoured UG cable	Metre	130				

Sl No.	APWI	SL NO.	Description	Units	Qty	Rate	Amount
9.	32.5		Supply and laying of following size Solid Aluminium conductor up to 10sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988, LT armoured U.G. cable laid in pucca flooring, roadcrossing, drain crossing as per site requirement and partially in air to connection as approved by the Depts. the control switch, through medium duty G.I. pipe (Tata/ Nezone make or equivalent as approved by the Deptt) bend and socket including excavation and refilling the trench and making good damage done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make)				
		32.5.2	Core - 3 A2XWY A2XFY	36.	٥		
		32.5.2.1	4.00 Sq.mm 3 Core U.G. cable in 25mm dia medium duty G.I. pipe	Metre	0		
			6.00 Sq.mm 3 Core U.G. cable in 32mm dia medium duty G.I. pipe Core - 3 & 1/2 A2XWY A2XFY	Metre	20		
			70.00 Sq.mm 3&1/2 Core U.G. cable in 50mm dia medium duty hot dip				
			galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	5		
		32.5.3.6	120.00 Sq.mm 3&1/2 Core U.G. cable in 65mm dia medium duty hot				
			dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	5		
		32.5.4.14	300.00 Sq.mm 4 Core U.G. cable in 100mm dia medium duty hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	30		
		32.05.04	Core - 4 A2XWY A2XFY	IVICUE	30		<u> </u>
			16.00 Sq.mm 4 Core U.G. cable in 40mm dia medium duty hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	10		
10.	32.18		Supplying including installation of cast iron cable marker as specified and directed by the deptt.	Each	20		
	PART-	34	CABLE KITS Supply including fitting and fixing of 1.1 KV PVC/XLPE cable		•		
		34.28.4	INDOOR/OUTDOOR end termination Kits (Raychem RPG make) HEAT SHRINK TYPE including all accessories for the following sizes including testing and commissioning as specified and directed by the Deptt. 185-300 Sq.mm., 3/3.5/4 Core cable.		2.00		
	PART -	36	OVER HEAD LINE				
12.	36.33		Supplying and fitting fixing of H.T. danger plate complete as required and as directed by the department.	Each	4		
	ART - E ECBC 6		SOLAR POWER	1	1		T
13.	ECBC	0.2	Supplying including installation, testing and commissioning of Solar Street light as per following specification and as directed by the Department.				
			15 W LED SOLAR STREET LIGHT[Confirming RDSO Specification No: RDSO/PE/SPEC/PS/0093-2008(Rev 0)]				
			SYSTEM SPECIFICATION				
			15 W LED based luminaries/fixture (1500 Lumens –typical).				
			LED Type: White High Powered LED's 5500-6500 K temperature.				
			Automatic Dusk to Dawn Operate ion. Independent standalone Solar Street Lighting System. Powered by a 12V, 80 Wp Solar PV Module confirming RDSO Part-I				
			Approval & IEC: 61215 Certification. (Model: TBP 1280/ 1280M). (make: TATA BP SOLAR or				
			equivalent) 12V, 75Ah @ C10, Tubular Plate Lead Acid Low Maintenance Battery				
			with PP Container (make: TATA BP SOLAR or equivalent).				
			Battery Box made of M.S fabricated with corrosion resistance paint.				
			6m height MS Pole with corrosion resistance paint. Manufacturers Criteria:				
			Must have ISO: 9001 & ISO: 14001 Certification.				
			(As per Annexure A: Clause no: b, Page 10)				
			Must have integrated production capacity of Solar PV Cell & Module. (As per Annexure A: Clause no: d, Page: 10)				
			(As per Annexure A: Clause no: d, Page: 10) SUGGESTED UNIT PRICE				
			Unit Cost Without Installation & Commissioning)	Each			
		-	Installation & Commissioning Charges	Each		-	
14.			Total of Schedule Items (A) Less 5% VAT added in SOR				
17.	Į .		Total of Schedule Items less 5% VAT (B)				
			Add 7% GST				
15.			Total of Schedule Items (C)				

Sl No.	APWD SL NO	Description	Units	Qty	Rate	Amount
	В.	NON-SCHEDULE ITEMS		l		
16.		MAIN LT FEEDER PANEL				
	Analysis	Supplying and installation of metal enclosed free standing floor readable mounted front operated cubical type switch gear panel suitable for OUTDOOR Type installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section with arrangement for sealing the covers and lockable doors. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint conforming to Degree of Protection for enclosure shall be IP-55. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall be incorporated with single copper busbarsystem. The bus bar shall be of high quality copper of uniform cross section. The panel shall consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector switch etc.) connected as per				
		drawing and shall be flush mounted on the front of the panel.	Set	1		
		Incommer:				
	a)	500 A ,4P, MCCB, 36 KA - 2 Nos.				
	b)	500 A, 4P, on-load Changeover switch - 1 No.				
	c)	Digital Ammeter - 2 Nos.				
	d)	Digital Voltmeter - 2 Nos. CT 500/5 -1 Sets.				
	e) f)	CT 500 -1 Sets.				
		Switch Fuse Unit - 6 Nos				
	g) h)	Selector Switch - 4 Nos				
	i)	LED Indicating Lamp 2 Sets				
	j)	Bus-Bars: 960 A TPN electrolytic Copper Bus Bar of uniform cross-section (60mmx10mm) – 1 set				
	k)	Outgoing: 250 A 4P MCCB 36 KA – 1 No.				
	1)	250 A 4P MCCB 36 KA – 1 No. 40 A 4P MCCB 25 KA – 1 No.				
	m)	100 A 4P MCCB 25 KA – 1 No.				
	n)	63 A 4P MCCB 25 KA – 1No.				
	0)	160 A 4P MCCB 25 KA – 1No.				
	p)	40 A 4P MCB – 2 Nos.				
17.	P	Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2		
18.		Supply, Fitting Fixing of Shock Treatment Chart	Each	4		
		Total of Non-Schedule Items (B)				
		GRAND TOTAL [SCHEDULE ITEMS (C)+NON-SCHEDULE(D)]			Rs.	

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical

Works 2013-14 OFFICE BUILDING Description APWD SL Units Rate Amount Otv No. NO. SCHEDULE ITEMS A PART - 2 Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated 2.1 single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco Anchor or Equivalent Make as approved by the Deptt.) in surface/recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including 6 Amp flush switch/ bell push (Anchor penta /Gold medal kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/ MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete Short point up to 3.00 metre. length. 2.1.1 Each 2.1.2 Medium point up to 6.00 metre. Length. Each 2.1.3 Long point up to 10.00 metre. Length. Each 2.2 Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco Anchor or Equivalent Make as approved by the Deptt.) in surface/recessed 2 mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system including 5 pin 6 Amps flush type plug socket and 6 Amps F/T switch (Anchor penta /Gold medal Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete, when placed elsewhere. 2.2.1 Short point up to 3.00 metre. length. Each 222 Medium point up to 6.00 metre. Length. Each Long point up to 10.00 metre. Length. 2.2.3 3 2.4 Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), GI/MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) Each 2.4.1 Extra long point up to 15.00 metre. length. 2.4.2 Extra long point up to 20.00 metre. Length. Each

MEGHA FOOD COOPERATIVE	COCIET\	ú

Sl No.		WD SL Description		Units	Qty	Rate	Amount
4	NO. 2.10		Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated singlecore unsheathed industrial (Multistrand) cable FR conforming to IS- 694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rdpin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and CIRCUIT WIRING Wiring for drawing sub-main line with P.V.C. insulated single core	Each	5		
5. 2.7			unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/AKG / Precision/Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/heavy ISI marked IS: 9537 PART III rigid PVC conduit wiring system.				
		2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	80		
		2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM			
	PART	Γ-10	FITTINGS AND ACCESSORIES (ALL PRODUCTS SHOULD ENVIRONMENT FRIENDLY)	BE EN	ERGY	EFFICIEN	NT AND
6.	11.12		Supplying and fixing of polished Brass Bracket of 18 S.W.G, 25 cm long cast back plate and brass lamp holder complete including connection as approved by the Deptt.)as required Without Lamp. [BK]		2		
7.	11.28		Supplying and fixing of Frosted glass shade of 100 mm dia (Nominal Size as required.	Each	2		
8.	11.32		Supplying and fixing of Call bell (Buzzer) including 5/6 ampcapacity button piano type bell push switch including connection as approved by the Deptt.)as required.	Each	1		
	PART	Γ-15	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKI C&S, Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPRO MCB IN-comer SPN DB MCB IN-comer (TPN VERTICAL DB)				BREAK,
9.	15.22		Supplying with fitting and fixing MCCB income and MCB outgoing sheet steel, phosphatised, powder painted double door IP-43 surface mounting vertical TPN MCB DB incorporated with bas-bar up to 250A, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
		15.22.1	ABB, Schneider MG, legrand, Hager make)				
			4 way TPN (4+12) double door	Each	1		
			8 way TPN (4+18) double door	Each			
	PART	- 16	MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRA (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL PPROVED BY THE DEPTT.) MCB (Conform to IS / IEC 60898-1:200/ MCCB (Conform to IS/IEC 61008)	OR EQ	UIVAL	ENT MAI	KE AS

10.	16.1		Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz				
			MCB of the following capacity complete with making necessary				
			connection as approved, specified and directed by the deptt.				
		16.1.2	C Series				
			(Schneider MG, legrand, Hager make)				
		16.1.2.1	6 to 32A	Each	12		
		16.1.2.2	40 A	Each			
11.	16.16	16.16.1	Supplying with fitting and fixing panel mounting open execution 25KA 415V 50Hz 4P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure of the following capacity complete with making necessary connection as approved by the Deptt. as specified and directed by the deptt. 25 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens make)				
		16.13.1.4	, , , , , , , , , , , , , , , , , , , ,	Each	1		
	PART-22		EARTHING				

	IAK		EARTHING				
SI	APW NO.	D SL	Description	Units	Qty	Rate	Amount
No. 12.	22.7						
12.	22.1		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I.				
			Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I.				
			reducing socket for funnel including locking arrangement 300 mmx300				
			mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit,				
			construction of brick chamber and plastering of both inner & outer surface				
			of wall as specified and directed by the deptt.	Each	2		
13.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Stationpit				
			to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		
1.4	22.20		1 1 1	Eacii			
14.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with				
			supply of G.I. nuts & bolts, screws etc including riveting, soldering &				
			making necessary connection as approved,				
			specified and directed by the deptt.	R.M.	20		
	PART	- 27	CEILING FAN, EXHAUST FAN AND AIR CURTAIN				
15.	27.1		Supplying including fitting fixing of following A.C. Ceiling fan complete				
			with all accessories like down rod, canopy etc. of following sweeps with				
			making necessary connection as approved by the Deptt.)as required				
			complete and as directed by the Department				
		27.1.2	[Without regulator].		1 1		
		27.1.2	Premium model 1200 mm Sweep (ORIENT PSPO make) / Premiummodel 1050 / 1200 mm Sweep SS-390 Deco Havells make) [F]				
			1050 / 1200 mm Sweep 35-390 Deco Havens make) [11]	Each	2		
16.	27.2		Supplying including fitting fixing of following A.C. Exhaust fan in the		L L		
			existing hole on the wall of following sweeps with making necessary				
			connection as approved by the Deptt.)as required complete and as				
			directed by the Department.				
		27.2.1	Domestic				
		27.2.1.12	1 \ /2 3	Each	2		
1TE 2019		PROVED	BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDMA	RI, GU	J WAHA	II-3 ON D	ATED 09-09-
	' I	4	Complete installation testing and Commission of the following indeed	l	1 1		
17.		4	Supplying, installation, testing and Commission of the following indoor Decorative Recess mounted LED down lighter luminaries of model no-				
			LESP01R009XC / LESP01R009XN /LESP01R009XW /				
			L00957R000 / L00940R000 / L00930R000 /LD90-111 - XXX-65-XX				
			complete with all accessories such as ballast, starter etc. In the false ceiling				
			type Armstrong Gypsum or similar ceiling mounting with necessary				
			support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required				
			and as directed by the department (Jaquar /				
			LT / Wipro make). [CL]	Each	3		
18.		10	Supplying, fitting fixing of LED Batten Tubes high qualityaluminium				
			extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC				
			insulated round copper conductor as required and				
		a)	as directed by the department. B118601000 [FL]	Each	5		
19.		10	Supplying, fitting fixing of LED Batten Tubes high qualityaluminium		<u>. J</u>		
1/.			extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC				
			insulated round copper conductor as required and				
			as directed by the department.	<u> </u>			
		b)	BN021C LED 20 PSU CW GR S2 [TL]	Each	5		
20.		6	Supplying fitting & fixing of LED Bulb non-dimmable in the existing				
			batten / angle holder as required and as directed by the department (
<u> </u>		C)	Jaquar or eqvt. make).	Eog!-	1 31		
		C)	Prima Series Bulb 9W	Each	2		

MEGHA FOOD COOPERATIVE SOCIETY

	Total of Schedule Items (A)						
29.	Less 5% VAT added in SOR						
	Total of Schedule Items less 5% VAT (B)						
30.	Add 7% GST						
	Total of Schedule Items (C)						
B.	NON-SCHEDULE ITEMS	NON-SCHEDULE ITEMS					
31.	Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2				
32.	Supply, Fitting Fixing of Shock Treatment Chart	Each	2				
	Total of Non-Schedule Items inclusive of GST (D)						
	GRAND TOTAL [SCHEDULE ITEMS (C)+NON-SCHEDULE(D)] Rs.						

PART – I ANNEXURE II

		Date:
From,		
Name:		
Address	S:	
Ph:		
Fax:		
E-mail:		
To,		
The Sec	cretay,	
M/s Me	endipathar Multipurpose Cooperative Society,	
P.O. Me	endipathar, Mendipathar, North Garo Hills,	
Meghal	aya – 794110	
C :		
Sir,		
Sub:	Tender for the construction of Industrial Work shed buildings and amenitie	s for Oyster
	Mushroom Cluster - Submission of Part I – Reg	
Ref:	Your Tender Notice Dt	

With reference to your tender notice, we submit herewith our sealed Tender for the construction of Industrial Work shed buildings and amenities for Oyster Mushroom Cluster, as specified by IA in this tender document.

We enclose the following documents:

- Tender conditions duly signed in each page and enclosed in token of accepting the Tender conditions
- 2) Authorization letter from the Company for the person to sign the tender.
- 3) Details of the Tenderer (as per Annexure-III)
- 4) Average annual turnover statement duly certified by a Chartered Accountant (as per Annexure-IV).
- 5) List of Building construction works executed in last 5 years as per Annexure-V
- 6) Declaration for not having black listed by any other Govt. agencies (as per Annexure-VI).
- 7) Declaration for not having tampered the Tender documents downloaded from the websites www.mbda.gov.in or northgarohills.gov.in or www.iie.gov.in (Annexure-VII).
- 8) Bid Security Declaration form (as per Annexure VIII)

- 9) The copy of certificate of incorporation/registration (If applicable)
- 10) Copy of Memorandum and Articles of Association (If applicable)
- 11) Copy of Registered Partnership deed, in case of Partnership Firm (If applicable)
- 12) Copy of Udyog Aadhaar, GST Registration Certificate & PAN Card
- 13) Work Orders issued by the clients.
- 14) Performance certificate issued by the clients.
- 15) The Annual Report / certified copies of Balance Sheet, Profit & Loss statement along with schedules for the last 5 consecutive financial years FY 2016-17, 2017-18, 2018-19, 2019-20 and 2020-21.
- 16) Latest I.T return.
- 17) Notarized translated English version of the documents in a language other than English/Assamese/ Garo/ Khasi, if any.

Encl: As stated above

Yours faithfully,

SIGNATURE OF THE TENDERER

ANNEXURE IIII DETAILS OF THE TENDERER

Name of the Tenderer	
Registered Office Address	Address:
	Telephone Number:
	Fax:
	Email:
	Website, if any:
Contact Person	Name:
	Designation:
	Phone:
	Mobile:
	Email:
Date of Incorporation	
Legal Status	Proprietorship/partnership/Pvt. Limited/Public Limited/
	Others (Pl. mention)
Brief profile of the tenderer	
Number of staffs on regular	Technical:
payroll	Administration:
PAN Number	
GST Registration Number	

SIGNATURE OF THE TENDERER (with seal and address)

ANNEXURE – IV ANNUAL TURNOVER STATEMENT

The Annual turnover of M/s	for the past five years are given below
and certified that the statement is true and correct	

S.No.	Year	Turnover
1.	2106-2017	
2.	2017-2018	
3.	2018-2019	
4.	2019-2020	
5.	2020-2021	
Average annual turnover of last 5		
years		

DATE:

SIGNATURE OF THE TENDERER

SIGNATURE OF CHARTERED ACCOUNTANT (with seal and Address)

ANNEXURE - V LIST OF CLIENTS FOR WHOM CIVIL CONSTRUCTION WORKS UNDERTAKEN IN THE PAST 3 YEARS

(Please provide the details for each project in separate sheet along with work Order/completion certificate from client)

S.No.	Name & Address of the Client	Details of the Work	Area in Sq. Ft	Year of Completion	Cost (Rs. In Lakh)	Work Order & Completion Certificate enclosed (Yes/No)

SIGNATURE OF THE TENDERER (with seal and address)

ANNEXURE – VI CERTIFICATE

	Date:
Certified that M/s/ the nad not been blacklisted by any Government Agencies.	e firm /company or its partners/ share holders
	SIGNATURE OF THE TENDERER (with seal and address)

ANNEXURE - VII DECLARATION FORM

	Date:
a)	I/We having our office at do declare that
	I/We have carefully read all the conditions of tender floated vide tender ref.no. SFURTI-I/MGH-
	MMCS/CIVIL-001/2021-22 for the construction of Industrial Work shed buildings and amenities
	for Oyster Mushroom Cluster and will complete the contract as per the tender conditions.
b)	I/We have downloaded the tender document from the internet site www.mbda.gov.in or
	northgarohills.gov.in or www.iie.gov.in and I /We have not tampered / modified the tender
	document in any manner. In case, if the same is found to be tampered / modified, I/ We
	understand that my/our tender will be summarily rejected and I /We am/are liable to be banned

from doing business with M/s. Mendipathar Multipurpose Cooperative Society or prosecuted.

SIGNATURE OF THE TENDERER (with seal and address)

ANNEXURE – VIII BID SECURITY DECLARATION FORM

Date:	

To

The Secretary,

M/s. Mendipathar Multipurpose Cooperative Society,

P.O. Mendipathar, North Garo Hills,

Meghalaya - 794110

Tender No. SFURTI-I/MGH-MMCS/CIVIL-001/2021-22 dated 03.05.2021

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be blacklisted from bidding for any contract for a maximum period of 3 years from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We have withdrawn / modified / amended or failure to sign the agreement or to remit the Security Deposit or to execute the contract as per tender conditions, during the period of bid validity specified in the tender document.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

SIGNATURE OF THE TENDERER (with seal and address)

PART-II

ANNEXURE - IX

From,	
Name: Addres Ph: Fax: E-mail:	
To, The Se	cretary,
M/s. M	lendipathar Multipurpose Cooperative Society,
P.O. M	endipathar, North Garo Hills,
Megha	laya - 794110
Sir,	
Sub:	Tender for the construction of Industrial Work shed buildings and amenities for Oyster Mushroom Cluster - Submission of Part II - Price Offer-Reg.
Ref:-	Our tender (Technical Bid) submitted for the "Construction of Industrial Work shed buildings and amenities for Oyster Mushroom Cluster"

In continuation of our above tender, we submit herewith the price offer for the "Construction of Industrial Work shed buildings and amenities for Oyster Mushroom Cluster" as specified by IA in this tender document.

We agree to abide by the terms and conditions stipulated by the IA and also agree to complete the entire contract, at the rates quoted by us. The rate quoted and approved by the IA in this tender will hold good as per IA tender conditions.

Yours faithfully,

SIGNATURE OF THE TENDERER

ANNEXURE - IX (A)

PRICE BID

ABSTRACT OF ESTIMATED COST BASED ON ASSAM PWD SCHEDULE OF RATES FOR CIVIL WORKS 2013-14							
SI. No.	APWD It. No./Ref	DESCRIPTION U	nit	Quantity	Rate in Rs.	Amount in Rs.	
	1	Training and Office room					
1.1		Civil Works					
1.2		Internal Electrical works					
	2	Spawn Making Section					
2.1		Civil Works					
2.2		ThatchStructure					
2.3		Internal Electrical works					
	3	Value Addition Area					
3.1		Civil Works					
3.2		Internal Electrical works					
	4	Bagmaking Section					
4.1		Civil Works					
4.2		Internal Electrical works					
	5	Preprocessing & Hay Stack					
5.1		Civil Works					
5.2		Internal Electrical works					
	6	Demo Hall					
6.1		Civil Works					
6.2		Internal Electrical works					
	7	Grow House					
7.1		Civil Works					
7.2		Internal Electrical works					
8		TOTAL (A)					
9		GST @ 7% on Schedule Items					
10		Total (B)					
11		Contingencies @ 1% of Total (B)					
12		Architect and engineering services and	supe	rvision @ 5%	, 0		
13		GRAND TOTAL	•				

Estimated cost of construction of the GROW HOUSE for OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Civil Works 2013-14.

GROW HOUSE

Area of Ground floor	$= (68.04+74.08)=142.12 M^2.$
----------------------	-------------------------------

Ite	m No.				Rate in	Amount in
OQ	APWD	Description of work	Unit	Qty.	Rupees	Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	68.42		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least 750mm under ground and tied with wire or cane @ 1500 to 2000 c/c at least 3000 TO 4500 above plinth level.	Each	28.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to weather, tied with necessary bamboo kamis on both sides @300mm apart tied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows of bamboo tarja on bamboo frames.	Sq.m	108.27		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.	·	•		
	(b)	150 mm thick.	Sqm	183.76		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun grass of 75 mm thick (fine work) stiffened with bamboo slips of size 30mm x 6mm and tied with galvd. tying wire complete.	RM	79.08		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm x 38mm including tying to the purlins and rafters with cane slip or galvd. tying wire.		,		
	(a)	Fine work	Sqm	183.76		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	183.76		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane sling / Galvd. tying wire.		•		
	(a)	(a) With Bhaluka bamboo.	RM	115.08		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.	Sqm	26.46		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	183.76		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	183.76		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	142.12		
	•	TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

COOPERATIVE SOCIETY CIVIL TENDER						
		BAGMAKING	SECTIO	N		
1. Are	ea of Grou	ind floor = 476	.65 M ² .			
ITEM N	O.	DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN RUPEES
BOQ	APWD					
1		EARTH WORK				
1.1	1.1	Earthwork in excavation for foundation trenches of walls				
		retaining walls, footings of column, steps, septic tank etc including refilling (return filling) the quantity as necessary				
		after completion of work, breaking clods in return filling				
		dressing, watering and ramming etc. and removal of surplus				
		earth with all lead and lifts as directed and specified in the				
		following classification of soils including bailing out water				
		where necessary as				
	(A)	directed and specified. Up to a depth of 2.00m below the existing ground				
	(A)	level.				
	(a)	In ordinary soil	cum	148.56		
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150 mm	cum	140.50		
1.2	1.5(0)	thick including necessary, carriage, watering, ramming etc				
		complete as directed and specified including payment of land				
		compensation, Forest Royalty, Sales Tax and other duties and				
		taxes as may be necessary. (c) with river sand or sil				
		(predominantly non				
		plastic) by truck carriage including loading and unloading.	cum	187.25		
2		NOMINAL MIX. (P.C.C. WORKS)				
2.1	2.1.1	Plain cement concrete works with coarse aggregate of sizes				
		13mm to 32mm in foundation bed for footings, tie beams,				
		steps, walls, brick works etc. as directed and specified				
		including dewatering if necessary andcuring				
		complete (shuttering where necessary shall be measured and paid separately).				
	a)	In prop. 1 cement : 3 sand : 6 coarse aggregate byvolume				
	a)	in prop. 1 cenicit. 3 said. 6 coarse aggregate byvolume	cum	22.95		
2.2	2.1.3	Providing and laying 25mm thick damp proof course with				
		cement concrete in prop 1: 1.5: 3 with graded stone agg.Of				
		10mm down nominal size including providingapproved damp				
		proof admixture in proportion as				
		recommended by the manufacturer including curing etc. complete as directed.	sqm	14.33		
3		REINFORECED CEMENT CONCRETE WORKS				
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete works				
		cement, coarse sand & 20mm down graded stone aggregate				
		including dewatering if necessary, and curing complete but				
		excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will				
		be measured				
		and paid separately)				
	(I)	Using Mixer Machine				
3.1.1	(A)	In substructure up to plinth level				
		Foundation, footing, columns with base tie and plinth beam.				
		pile cap, base slab, retaining walls, walls of septic tank,				
		inspection pit and the like and other works not less than 100mm thick up to plinth level.				
	N)	Without using admixture, plasticizer				
	(b)	M20 grade concrete	cum	46.53		
3.2	(B)	In super structure from plinth level up to 1st floor level.	I			
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing				
		shelf and support, balcony, lintel, sill band, beam, girder bressumer, cantilever, staircase (except				
		spiral staircase and landing) including preparing the top				
		surface and finishing of nosing.				
	N)	Without using admixture, plasticizer				
	(b)	M20 grade concrete	cum	45.31		
4	22:	PLYBOARD SHUTTERING (FORMWORK)				
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so asto				
		give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below				
		supporting floor to ceiling not exceeding 4.0M and removal of				
		the same for in situ reinforced concrete and plain concrete				
		work				
		in:				

		E SOCIETY			CIVIL	TENDER
4.1.1	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. havingplane vertical face	sqm	449.83		
4.1.2	3.2.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontalties.				
	<u> </u>	(a) For depth not exceeding 1.0M.	sqm	500.16		
4.1.3	3.2.1.3	Flat Surfaces such as soffits of suspended floors,roofs, landings, cantelever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness.		100.54		T
5		MASONARY WORK	sqm	100.54		
5.1	4.1.1	Providing soling in foundation and under floor with stone/ best				
		quality picked jhama brick, sand packed and laid tolevel and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.	sqm	305.95		
5.2	4.1.4	Brick work in cement morter with 1st class brick				
5.2.1		including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (b) In proportion 1:4	cum	69.00		1
5.3	4.1.8	1st class brick nogged wall in cement mortar including racking	cum	07.00		
3.3	4.1.0	out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor stee of column to be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall (a) In cement mortar in proportion 1:4.(1				
		cement:4 sand)	sqm	227.10		
5.4	5.3.2	Brick-on-flat floor with 1st class brick and grouted with cement mortar in prop. 1:4 (1 cement : 4 sand) including 15 mm thick cement plastering in proportion 1:2 (1 cement : 2 sand) finishing with a floating coat of neat cement finish using cement slurry @ 2.75 kg. per sq. metre of floor area and curing complete.	aam	402.00		
			sqm	402.00		
6		ELOOPING AND ELOOP EINIGH				
6	5.1	FLOORING AND FLOOR FINISH				
6.1	5.1 5.1.4	FLOORING AND FLOOR FINISH CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under				
6.1		CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down)and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed.	sqm	75.00		
6.1	5.1.4	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down)and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. CEMENT PLASTERING	sqm	75.00		
6.1		CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement:3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement:1 coarse sand: 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side				
6.1 7 7.1	6.2.2	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement:3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement:1 coarse sand: 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4	sqm	75.00		
6.1	5.1.4	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5mm thick)	sqm	252.30		
7.1 7.1	6.2.2	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5mm thick) b) In cement mortar 1:4				
7 7.1 7.2	6.2.2	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5mm thick) b) In cement mortar 1:4 Extra over item no 6.2.1 to 6.2.3 for plastering on cellingand soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed.	sqm	252.30		
7 7.1 7.2	6.2.3	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5mm thick) b) In cement mortar 1:4 Extra over item no 6.2.1 to 6.2.3 for plastering on cellingand soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed. ROOFING	sqm	252.30		
7 7.1 7.2	6.2.2	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement :3 coarse sand : 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) laid in panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed. CEMENT PLASTERING 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4 20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor levelincluding arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm and finishingcoat 5mm thick) b) In cement mortar 1:4 Extra over item no 6.2.1 to 6.2.3 for plastering on cellingand soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed.	sqm	252.30		

		SOCIETY			CIVIL	ENDER
8.2	8.1.36	Providing Pre Painted Galvalume Sheet (PPGL) accessories Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tappingscrews complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick	R.m	44.95		
•			K.III	44.93		
9		WOOD WORKS				
9.1	9.18.1	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.) (b) 35mm thick		15.75		
10		GRILL				
10.1	10.2	Providing, fitting and fixing M.S. grill of required patternfor windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nutsor screws. I. Plain grill (c) Fixed to Brickwork/P.C.C/R.C.C.	kg.	692.00		
11		ALUMINIUM WINDOWS	<u>'</u>			
11.1	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, jointsmitred and welded (manufactured to relevant ISspecifications) and providing and fixing handles, anglecleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
11.1.1	(a)	2 track sliding windows				
		(i) 6mm clear glass	sqm	0.00		
11.1.2	(b)	3 Track sliding window	-			
	(-)	(i) 6mm clear glass	Sq.m	34.56		
12		PAINTING	1			<u> </u>
	13.3	PLASTER OF PARIS & WALL PUTTY				
12.1	13.3.1	Providing surface preparation for walls, celling etc.using average 1.50 mm thick plaster of paris including clearing, rubbing with sand paper, filling gaps, depression etc. where necessary, with chalk powder and and plaster of paris paste, making thesurface even and smooth complete at all levels as specified and directed.		257.97		
12.2	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing al				
		loosely adhering material from the wall surface with the help of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)				
	(i)	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick		313.02		
		of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING		313.02		
12.3	13.2.3(a)	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth.	sqm	313.02 570.99		
12.3		of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered	sqm Sqm			
	13.2.3(a)	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth. b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shadeon new wall surface (two coats) to give an even shade after throughly brooming the surfaces to remove all dirt and remains of loose	sqm Sqm	570.99		
12.4	13.2.3(a) 13.2.3(b)	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth. b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shadeon new wall surface (two coats) to give an even shade after throughly brooming the surfaces to remove all dirt and remains of loose powdered materials. Extra over for painting on celling and on sloping roof.	sqm Sqm	570.99		
12.4	13.2.3(a) 13.2.3(b) 13.4.5 13.7	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth. b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shadeon new wall surface (two coats) to give an even shade after throughly brooming the surfaces to remove all dirt and remains of loose powdered materials.	Sqm Sqm	570.99 570.99		
12.4	13.2.3(a) 13.2.3(b)	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth. b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shadeon new wall surface (two coats) to give an even shade after throughly brooming the surfaces to remove all dirt and remains of loose powdered materials. Extra over for painting on celling and on sloping roof. PAINTING ON STEEL AND OTHER METAL SURFACE Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by throughly cleaning oil, grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper.	Sqm Sqm sqm	570.99 570.99 102.30		
12.4	13.2.3(a) 13.2.3(b) 13.4.5 13.7	of emery stone, puttyblade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick WALL PAINTING Applying one coat of cement primer of approved brand and manufacture on new wall surface after throughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surfaceeven and sand papered smooth. b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shadeon new wall surface (two coats) to give an even shade after throughly brooming the surfaces to remove all dirt and remains of loose powdered materials. Extra over for painting on celling and on sloping roof. PAINTING ON STEEL AND OTHER METAL SURFACE Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by throughly cleaning oil, grease, dirt and other foreign matter and scoured with wire brushes, fine	Sqm Sqm sqm	570.99 570.99		

Painting two coats (excluding priming coat) on new steeland other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	
manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac). sqm 69.12	
manufacture(Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac). sqm 69.12	
paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac).	
including cleaning the surface of all dirt, dust and other foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac). sqm 69.12	
foreign matter. (i).Surfaces over 100mm in width or girth. a). General purpose (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac). sqm 69.12	
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paint/ J & N paint/ Nerolac). sqm 69.12	
40 DOOD AND WINDOW FITTINGS	
13 DOOR AND WINDOW FITTINGS	
15.2 ALUMINIUM FITTINGS	
13.1 15.2.1 Supplying, fitting, fixing anodised aluminium fittings of	
approved make, resonably smooth, free from sharpedges	
and corners, flaws and other defects and withcounter sunk	
holes for screws including necessary aluminium screws etc.	
complete.(anodised to bright	
natural matt & satin finished)	
13.1.1 A Sliding door bolts	
(ii) 250mm x16mm sliding door bolt. Each 5	
· · · ·	
13.2 B Tower bolt	
(iii) 200mm x 10mm tower bolt. Each 10	
13.3 C Door handles	
150 mm Each 10	
14 STEEL AND IRON WORKS	-
14.1	
18.1.1 Supplying, fitting and fixing in position reinforcement bars	
conforming to relevant I.S. Code for R.C.C. work/	
R.B. walling including straightening, cleaning, cuttingand	
bending to proper shapes and length as per details, supplying	
and binding with 20G annealed black wire and placing in	
position with proper blocks, supports, chairs, spacers etc	
complete.	
(No extra measurement for lap, hook, chair, anchor etc.will be	
entertained in the measurement as they are included in the rate	
(Upto 1st floor level)	
b) Other ISI approved TMT reinforcement bar	
(SAI/BISCON/THERMAX) Qtl 94.42	
14.2 18.3 ROOF TRUSS	
18.3.2 Providing, fitting, hoisting and fixing of roof trusses fabricated	
out of combination of any two or all of the following sections	
(i) Square section (ii) Rectangular Hollow section of	
specification RSH/SHS and (iii) M.S. circular hlollow section	
of Grade 210 including purlins, bottom runners and providing	
M.S. cleat, M.S. angle base plank, bolts and nuts with red	
oxide primer including fitting bottom runner and cleat etc	
for fixing	
ceiling joist as per design complete as directed as per	
specifications.	
(b) Using other ISI marked approved brand tube Qt1 37.25	
14.3 18.7 DOOR FRAMES	•
18.7.2 Providing, fitting and fixing powder coated pressed steeldoo	
frame made of 1.25mm/ 1.6mm thick sheet of various sizes	
with necessary hinge jamb, lock jamb, head and steel base ties	
at the bottom of the frame. Thewhole frame shall be welded o	
rigidly fixed together bymechanical means with base ties o	
pressed mild steel angle of size 20x20x1.25mm thick. Frame	
to be filled upwith 1:4:8 P.C.C. after fitting the frame with	
brick/ concrete works etc.complete as directed by the	
department for all levels. (P.C.C. to be	
measured and paid for seperately).	
(a) 1.25mm thick sheet	
(iii) Size 125mm x 60mm (Single rebate) R.m 28.50	
15 PLINTH PROTECTION WORKS AND PERIPHERY	
15.1 19.2 Providing plinth protection with bricks flat laid in cemen	
15.1 Providing plinth protection with bricks flat laid in cemen mortar 1: 4 and finished with 15mm thick cement plastering	
mortar 1: 4 and finished with 15mm thick cement plasterin	
mortar 1: 4 and finished with 15mm thick cement plasterir prop. 1:2 with a floating coat of neat	1
mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish.	
mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 19.5 Providing drain with brick work in cement mortar inproportion	I
mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish.	-
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mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C. (1:3:6) base over one brick flat soling including 15mm thick	
mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 19.5 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C. (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of	
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mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 19.5 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work inexcavation of foundation trenches and refilling	,
mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and	
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mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 19.5 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work inexcavation of foundation trenches and refilling	,
mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work inexcavation of foundation trenches and refilling the sidesafter completion of work etc. as specified.	
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mortar 1: 4 and finished with 15mm thick cement plastering prop. 1:2 with a floating coat of neat cement finish. 15.2 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work inexcavation of foundation trenches and refilling the sidesafter completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bed slope 1 in 150 with initial depth of 100mm. R.m 107.20	
mortar 1: 4 and finished with 15mm thick cement plasterin prop. 1:2 with a floating coat of neat cement finish. 15.2 19.5 Providing drain with brick work in cement mortar inproportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work inexcavation of foundation trenches and refilling the sidesafter completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bed slope 1 in 150 with initial depth of 100mm. R.m 107.20	
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MEGHA FOOD COOPERATIVE SOCIETY

000		300.211			C	
16.1	26.1.1	Pre construction anti - termite treatment at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plinth beam, wall, trenches etc. by applying the emulsion @ 5 (five litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				
		a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (tricel or euivalent) andwater, i.e. 1% solution. TOTAL COST OF BUILDING CIVIL WORKS	Sqm	72.00		
	1	TO THE GOOD OF ECLEDITION OF THE WORK			SAY	

1. Are	ea of Grou	and floor $= 51.61 \mathrm{M}^2$.				
Ite	m No.				Rate in	Amount in
BOQ	APWD	Description of work	Unit	Qty.	Rupees	Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick				
		including necessary carriage, watering, ramming etc. complete as				
		directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
	(1-)			T		
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	25.44		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least	Cuiii	23.44		
2	14.5.	750mm under ground and tied with wire or cane @ 1500 to 2000 c/c				
		at least 3000 TO 4500 above plinth level.	Each	16.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to	Lacii	10.00		
3		weather, tied with necessary bamboo kamis on both sides @300mm				
		apart tied with galvanised wire/cane slit and fixed to bamboo posts etd				
		complete as directed including making provision for doos and windows				
		of bamboo tarja on bamboo frames .	Sq.m	101.18		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick	94	101.10		
4	0.1.11	with half spilt bamboo fillet and tying with galvd. wire complete.				
	(b)	150 mm thick.	Sqm	62.06		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun	·			
		grass of 75 mm thick (fine work) stiffened with bamboo slips of size				
		30mm x 6mm and tied with galvd. tying wire complete.	RM	12.93		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm				
		x 38mm including tying to the purlins and rafters with cane slip or galvd.				
		tying wire.				
	(a)	Fine work	Sqm	62.06		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	62.06		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane				
		sling / Galvd. tying wire.				
	(a)	(a) With Bhaluka bamboo.	RM	155.16		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas				
		placed at 150 mm apart and kamis 200mm to 230mm apart including	_			
	0.1.10	tying all members with galvd tying wire.	Sqm	15.40		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh	Carre	63.00		
11	0.1.24	bamboo slips of 35mm width	Sqm	62.06		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm. Brick-on-edge floor with 1st class brick and grouted with cement mortar	Sqm	62.06		
12	5.3.1	in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion				
		1:1 (1 cement :1 sand) finishing and curing complete.	C	F4 64		
			Sq.m	51.61		
		TOTAL COST OF BUILDING CIVIL WORKS			SAY	

	SPAWN MAKING SECTION								
_	a of Grou	nd floor = 24	17.50 M ² .	<u>. </u>					
ITEM No		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN			
BOQ	APWD	OWIL WORKS							
4	Α	CIVIL WORKS							
1.1	1.1	EARTH WORK							
1.1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc.							
		including refilling (return filling) the quantity as							
		necessary after completion of work, breaking clods in							
		return filling, dressing, watering and ramming etc. and							
		removal of surplus earth with all lead and lifts as							
		directed and specified in the following classification of soils including bailing out							
		water where necessary as directed and specified.							
	(A)	Up to a depth of 2.00m below the existing ground							
		level.							
	(a)	In ordinary soil	cum	58.95					
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than							
		150 mm thick including necessary, carriage, watering, ramming etc. complete as directed and specified including							
		payment of land compensation, Forest Royalty, Sales Tax							
		and other duties andtaxes as may be necessary. (c) with							
		river sand or silt(predominantly non plastic) by truck							
		carriage		111 20					
2		including loading and unloading NOMINAL MIX. (P.C.C. WORKS)	cum	111.38					
2.1	2.1.1	Plain cement concrete works with coarse aggregate of							
2.1	2.1.1	sizes 13mm to 32mm in foundation bed for footings, tie							
		beams, steps, walls, brick works etc. as directed and							
		specified including dewatering if necessary and curing							
		complete (shuttering where necessary shall be measured and paid separately).							
		and paraseparatery).							
2.1.1	a)	In prop. 1 cement : 3 sand : 6 coarse aggregate by volume	cum	23.35					
2.2	2.1.3	Providing and laying 25mm thick damp proof coursewith	cum	23.33					
2.2	2.1.3	cement concrete in prop 1: 1.5: 3 with graded stone agg.							
		Of 10mm down nominal size including providing							
		approved damp proof admixture in proportion as							
		recommended by the manufacturer including curing etc. complete as directed.							
			sqm	12.00					
3		REINFORECED CEMENT CONCRETE WORKS	-						
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete							
		works cement, coarse sand & 20mm downgraded stone aggregate including dewatering if necessary, and curing							
		complete but excluding cost of form work and							
		reinforcement for reinforced cement concrete work (form							
		work and reinforcement will be measured and paid							
		separately)							
	(I)	Using Mixer Machine							
3.1.1	(A)	In substructure up to plinth level							
	` ′	Foundation, footing, columns with base tie and plinth							
		beam, pile cap, base slab, retaining walls, walls of septic							
		tank, inspection pit and the like and							
	N)	other works not less than 100mm thick up to plinth Without using admixture, plasticiser							
	(b)	M20 grade concrete	Olim.	19.72	1				
	(0)	17120 Stade concrete	cum	19.72					

FOOD COOPERATIVE SOCIETY			CIVIL TENDER			
3.2	(B)	In super structure from plinth level up to 1st floor level.				
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including				
		preparing the top surface and finishing of				
	N)	Without using admixture, plasticiser		20.19		
4	(b)	M20 grade concrete PLYBOARDSHUTTERING (FORMWORK)	cum	20.12		
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so as				
		to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in:				
4.1.1	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape likeTee/L etc. having plane vertical face	sqm	185.97		
4.1.2	3.2.1.2	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.				
4.1.3	3.2.1.3	(a) For depth not exceeding 1.0M.	sqm	177.36		
4.1.3	3.2.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconiesand the like.				
_		(a) Floors etc. upto 200mm in thickness.	sqm	75.03		
5	4.1.1	MASONARY WORK Providing soling in foundation and under floor with stone				
3.1		best quality picked jhama brick, sand packedand laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete.		211 20		
5.2	4.1.4	(a).Brick on flat soling. Brick work in cement morter with 1st class brick	sqm	311.39		
3.2	7.1.7	including racking out joints and curing complete as directed.				
5.2.1		(I) In Sub-structure upto plinth level including dewatering if necessary				
		(d) In proportion 1:6	cum	20.25		
5.3	4.1.8	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of columnto be embeded in cement mortar and will be measured and paid separately) (A) 112 mm thick brick wall				
		(b) In cement mortar in proportion 1:5.(1 cement:5 sand)	cam	253.93		
6		FLOORING AND FLOOR FINISH	sqm	233.73		
6.1	5.7.1.2	Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mmon walls and skirtings over cement mortar bed10 mmthick in prop. 1:3 (1 cement: 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls). b) Executive range Somany/Orient/Nitco/Asian Make				
		i) Of size 200mmx300mm and above	sqm	9.14		

F <u>OOD</u> CC	OPERATI	VE SOCIETY	CIVIL TENDER			
6.2	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar inprop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade oftiles, mixed with approved pigment to match theshade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department) a) Normal range Somany/ Orient/Nitco /Varmora/VITA/ Marbito/ Make				
	(ii)	Of size 600mmx600mm and above	sqm	122.85		
6.3	5.3.2	Brick-on-flat floor with 1st class brick and grouted with cement mortar in prop. 1:4 (1 cement : 4 sand)including 15 mm thick cement plastering in proportion 1:2 (1 cement : 2 sand) finishing with a floating coat of neat cement finish using cement slurry @ 2.75 kg. per sq. metre of floor area and curing complete.		122.85		
6.4	5.11	ANTISKIDTILES	-		L	
	5.11.1	Providing Antiskid Tiles of approved quality size, shape not less than 8mm on floor, skirting over a cement mortar bed 15mm thick of 1:3 (1 cement: 3 coarse sand) approved make fix with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/ white cement complete at all level as specified and directed. (A) CERAMIC i)Normal range (Sizes 300 mm x 300mm and (a)Orient made: Galaxy Brown, Galaxy creama, Galaxy Pink, Galaxy Green, Pulsar Beige, Pulsar Blue, Pulsar Dove, Pulsar Pink, Burj Brown, Burj Green, Burj Slate	sqm	1.80		
6.5	5.1	CEMENT CONCRETE FLOORING	<u> </u>	17.1		
	5.1.4	65 mm thick cement concrete floor consisting of 50 mm under layer of cement concrete in prop. 1:3:6 (1cement: 3 coarse sand: 6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement:1 coarse sand: 2 coarse aggregate of size 10mm down) laidin panels and finished with a floating coat of neat cement finish (using cement slurry for bond @ 2.75 kg. per square metre of floor area) including curing etc. complete as directed.	sqm	17.60		
7 1	(22	CEMENTPLASTERING				
7.1	6.2.2	15 mm thick Cement plaster in single coat on singleor half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side				
		b) In cement mortar 1:4	sqm	439.62		
7.2	6.2.3	20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed. A) On rough side (backing coat 15 mm andfinishing coat 5mm thick) b) In cement mortar 1:4	sqm	141.91		
7.3	6.2.5	Extra over item no 6.2.1 to 6.2.3 for plastering on celling and soffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed.	_	75.03		
8		ROOFING	sqm	73.03		

FOOD CC	JOPERATI	VE SOCIETY			CIVIL TEND	EK
8.1	8.1.35	Providing Pre Painted Galvalume Sheet Roofing(PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses,purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement				
		(ii) 0.45 mm thick	sqm	279.54		
8.2	8.1.36	Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick	R.m	24.66		
9		WOODWORKS	TC.III	21.00		
9.1	9.18.1	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick crossbands, styles & rails made from hardwood timber ofwidth not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc.as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)				
		(b) 35mm thick	sqm	26.78		
10.1	10.2	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nuts or screws. I. Plain grill				
		(c) Fixed to Brickwork/P.C.C/R.C.C.	kg.	594.00		
11	11.12	ALUMINIUM WINDOWS				
11.1	11.1.2	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.				
11.1.1	(a)	2 track sliding windows				
	()	(i) 6mm clear glass	sqm	0.54		
11.1.2	(b)	3 Track sliding window	-			
40		(i) 6mm clear glass	Sq.m	29.16		
12 12.1	13.3	PAINTING PLASTER OF PARIS & WALL PUTTY				
12.1	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emerystone, putty blade or wire brush and moisteningthe wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm)				
	(i)	Thickness = 1.5 mm thick	sqm	581.53		
12.2	13.4	WALL PAINTING	oqiii	301.33		l
	13.4.1	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on newsurface to give an even shade after throughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth.				

.000 CC	JOPERATI	VE SOCIETY			CIVIL TEND	EK .
		(a). Acrylic Emulsion Paint approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J& N				
		paint/Nerolac)	sqm	439.62		
12.2	10.15					•
12.3	13.4.5	Extra over item no 13.4.1 above for painting with				
		acrylic emulsion paint of approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J & N				
		paint/ Nerolac) on celling and on sloping roof.				
		(i).Acrylic Emulsion Paint approved brand and				
		manufacture (Asian paint/ Berger paint/ ICI paint/ J& N		75.02		
		paint/ Nerolac)	sqm	75.03		
12.4	13.7	PAINTING ON STEEL AND OTHER METAL SURFA	CE			
	13.7.2	Applying primary coat over new steel and othermetal				
		surface over 100m in width or girth after preparing the				
		surface by throughly cleaning oil, grease, dirt and other				
		foreign matter and scoured with wire brushes, fine				
		steels, wood				
		scrapers and sand paper.				
		a). With ready mixed "red-lead/ red oxide" primer.				
		•	sqm	59.40		
12.5	13.7.4	Painting two coats (excluding priming coat) on new stee				
		and other metal surface with enamel paint of approved				
		brand and manufacture(Asian paint/ Berger paint/ ICI				
		paint/ J & N paint/ Nerolac) to give an even shade				
		including cleaning the surface of all dirt, dust and other				
		foreign matter.				
		(i).Surfaces over 100mm in width or girth.				
		<u> </u>		1		1
		a). General purpose (Asian paint/ Berger paint/ ICI				
		paint/ J & N paint/ Nerolac).	sqm	59.40		
12.6	13.9	SPECIAL WEATHER PROOF COLOURING				
	13.9.5	Finishing wall with water proofing weather coat smooth				
		anti-fungal exterior painting of Ace brand of Asian Paints				
		and of required shade on old/new wall surface after				
		cleaning and clearing the surface etc. including				
		scaffolding complete as directed at all				
		levels (two coats)	sqm	141.91		
13		DOOR AND WINDOW FITTINGS	sqiii	141.71		
13.1	15.2	ALUMINIUMFITTINGS				
13.1						
	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of				
		approved make, resonably smooth, free fromsharp edges				
		and corners, flaws and other defects and with counter				
		sunk holes for screws including necessary aluminium				
		screws etc. complete.(anodised to bright natural matt &				
		satin finished)				
13.1.1	A	Sliding door bolts				
	(ii)	250mm x16mm sliding door bolt.	Each	A		
13.2	B	Tower bolt				1
13.2	(iii)	200mm x 10mm tower bolt.	Each	20		
13.3	C	Door handles	Lucii	20		<u>I</u>
15.5		150 mm	г 1			1
10:			Each	20		
13.4		1) Hydraulic door closure	Each			
13.5		t) Door stopper with rubber stopper	Each			
14		STEEL AND IRON WORKS				
14.1	18.1	REINFORCEMENT				
	18.1.1	Supplying, fitting and fixing in position reinforcementbars				
		conforming to relevant I.S. Code for R.C.C.work/ R.B				
		walling including straightening, cleaning, cutting and				
		bending to proper shapes and length as per details				
		supplying and binding with 20G annealed black wire and				
		placing in position withproper blocks, supports, chairs				
		spacers etc. complete.				
		(No extra measurement for lap, hook, chair, anchor				
		etc. will be entertained in the measurement as they are				
		included in the rate) (Upto 1st floor level)				
				, , , , , , , , , , , , , , , , , , ,		1
		b) Other ISI approved TMT reinforcement bar	0.1	40.0		
1		(SAI/BISCON/THERMAX)	Qtl	40.96		
110						
14.2	18.3	ROOFTRUSS				

FOOD CO	OOPERATI	VE SOCIETY	CIVIL TENDER				
	18.3.2	Providing, fitting, hoisting and fixing of roof trusses fabricated out of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollow section of specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxideprimer including fitting bottom runner and cleat etc.for fixing ceiling joist as per design complete as directed as per specifications.					
	(b)	Using other ISI marked approved brand tube	Qtl	31.94			
14.3	18.7	DOOR FRAMES					
	18.7.2	Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steel base ties at the bottom ofthe frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mm thick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick concrete works etc.complete as directed by the department for all levels. (P.C.C. to be measured and paid for seperately).					
		(a) 1.25mm thick sheet					
		(iii) Size 125mm x 60mm (Single rebate)	R.m	54.75			
15		PLINTH PROTECTION WORKS AND PERIPHERY					
15.1	19.2	Providing plinth protection with bricks flat laid incement mortar 1: 4 and finished with 15mm thick cement plaster in prop. 1:2 with a floating coat ofneat cement finish.	sqm	30.36			
		Providing drain with brick work in cement mortar in proportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. ii). 300mm wide and average 250mm deep with bedslope		9 1.66			
40		1 in 150 with initial depth of 100mm.	R.m	71.66			
16	26	ANTITERMITE TREATMENT PRE CONSTRUCTION ANTI-TERMITE TREATMEN	 				
16.1	26.1.1 B	Pre construction anti - termite treatment at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plinth beam, wall, trenches etc. by applying the emulsion @ 5 (five) litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (tricel or euivalent) and water, i.e. 1% solution.	Sqm	27.00			
-	1						
1	1.1	Providing fitting and fixing vitreous water closet squatting pan (Indian type W.C Orissa pattern) withall fittings and fixtures complete including cutting andmaking good to the walls and floors whereever required. (Flushing Cistern to be paid separately)					
	1.1.3	Vitreous water closet squatting pan Indian type W.COrissa pattern of size 580 x 450 mm a) White ii)Hindware make	Each	1		T	
2	1.5	Supplying, fiting and fixing PVC flushing cistern withall internal fittings with CI brackets including fitting and fixing standard size CP flush pipe, union clamps etc. compete as directed and specified (pipes will be measured separately) ii) Hindware make				1	

ייסטט כנ	JUPEKATI I	VE SOCIETY			CIVIL TENDER
		a) White (i) Sleek+ PVC cistern	Each	1	T T
3	1.13	Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock stop cocks, waste coupling are to be paid separately)		1	<u> </u>
	1.13.2	BASIN (without pedestal)			
	1.13.2	(B) Hindware Make (a) White			
		(i) Alto 510 x 400 (Cat. No.10091)	Each	1	
4	1.18	Providing fitting and fixing Mirror with plastic frameof size 500x400mm complete as directed and specified.	Each	1	
5	1.22	Providing, fitting and fixing CP soap tray / soap dish complete as directed and specified. (i) Jaquar Make			1
		(a) Continental (Cat.No.ACN-1331N)			T T
6	1.24	Providing, fitting and fixing CP towel rail complete as directed and specified.	Each	1	
		(b) Sona make			
		(iii) Towel rail diplomat 600mm long (Cat.No.TR-0605)	Each	1	
7	1.26	Providing, fitting and fixing Chrome Plated towel ring complete as directed and specified. (b) Sona make			
		(i) Towel ring round (Cat.No.TR-06051)	Each	1	
8	1.27	Providing, fitting and fixing Chrome Plated robe hook complete as directed and specified.			1
		(b) Agmeco make		1	
		(vi) Dolfee (Cat.No.DE-00211)	Each	1	
9	1.32	Providing, fitting and fixing Chrome Plated waste coupling complete as directed and specified. (b) Sona			
		(i) Rupa 32mm (HT/FT) (Cat.No.WS-0801)	Each	1	
10	1.34	Providing, fitting and fixing Chrome Plated bottletrap pipe complete as directed and specified.			
		(a) Sona make (i) Pipe for bottle trap 300mm long (Cat. No.BT-0761)	Each	1	
11	1.37.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Supreme/Prince) or other ISI approved including joining fitting and fixing wiyh clamps etc.as necessary complete at all levels including below G.L as directed and specified.			1
	(a)	In exposed surfaces or in trenches.			
	(ii)	110mm dia.	R.m	8.00	
12	1.37.3	Supplying fiting and fixing 87.5 degree PVC bend with door of (Supreme/Prince) or other ISI approvedincluding joining, fitting and fixing etc. as necessarycomplete at al levels including below G.L. as directed and specified.			
	(a)	In exposed surfaces or in trenches.		1	,
	(ii)	110mm dia.	Each	2	
13	1.37.6	Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved includingjoining fitting and fixing etc. as necessary completeat all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia.	Each		
14	1.39	Providing fitting and fixing PVC cowel of ISI make	Lacii		
		complete as directed and specified.		1	T
1.5	(ii)	110mm dia. PVC cowel of ISI make	Each	1	
15	1.42	C.P. Grating	Each	2	1
	C (ii)	INTERNAL WATER SUPPLY WORKS	Each		
	C	INTERNAL WATER SUPPLY WORKS			

OOD CC	JOPENAII	IVE SUCIETY			CIVIL TEINL) E N
1	3.1.6	Providing and fixing Chlorinated Polyvinyle Chloride (CPVC) Pipes, having thermal stability for hot and cold water supply including all CPVC plain and brassthreaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe				
1.1	Α	In exposed surfaces or in trenches.			_	1
1.1.1	(c)	25 mm nominal outer dia pipe	R.m	6.00		
1.1.2	(f)	50 mm nominal outer dia pipe	R.m	6.00		
1.2	В	Concealed pipe with cutting chases & making good the walls				
1.2.1	(a)	15 mm nominal outer dia pipe	R.m	4.00		
1.2.2	(b)	20 mm nominal outer dia pipe	R.m	4.00		
2	3.2.1	Supplying fitting and fixing C.P. bib cock 15mm diaof approved brand directed and specified. (G.I. & C.P pipes will be measured separately)				
	(IV)	Agmeco brand				
	(v)	Bib Cock Two way with Flange CAT No.CC 00203/CAT No.CN 00203	Each	1		
3	3.3.2	Supplying fitting and fixing chrome plated (C.P.)stop- cock of approved brand and size as mentionedbelow as directed and specified.(G.I. & C.P pipes willbe measured and paid separately)				
	(II)	Agmeco Brand				
3.1	(a)	15mm dia(Male/ Female)	Each	2		
3.2	(b)	15mm dia(Concealed)	Each	1		
4	3.5.1	Supplying and fitting fixing C.P. pillar cock of 15mmdia of approved brand as specified and directed.				
	(III)	Agmeco (classic)				
	(a)	Flat	Each	1		
		TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

		VALUE ADDITION B	UILDIN	IG		
	a of Grou					
BOQ	APWD	DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	Amount in
1		EARTH WORK				
1.1	1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplusearth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and				
	(A)	specified. Up to a depth of 2.00m below the existing ground level.				
	(A)	In ordinary soil	cum	57.62		
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150 mm thick including necessary, carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, Forest Royalty, Sales Tax and other duties and taxes as may be necessary. (c) with river sand or silt (predominantly non plastic) by truck carriage including loading and unloading	cum	130.82		
2		NOMINAL MIX. (P.C.C. WORKS)				
2.1	2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footings, tie beams, steps, walls, brick works etc. as directed and specified including dewatering if necessary and curing complete (shuttering where necessary shall be measured and paid separately).				
2.1.1	a)	In prop. 1 cement : 3 sand : 6 coarse aggregate by volume	cum	26.40		
2.2	2.1.3	Providing and laying 25mm thick damp proof course with cement concrete in prop 1: 1.5: 3 with graded stone agg. Of10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	sqm	10.55		
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete works				
3.1	2.2.1	cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)				
	(I)	Using Mixer Machine				
3.1.1	(A)	In substructure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.				
	N)	Without using admixture, plasticiser	1	10.5	T	
3.2	(b) (B)	M20 grade concrete In super structure from plinth level up to 1st floor level.	cum	18.79		
3.2	(D)	in super saucture from pinnin fever up to 1st floor fever.				
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing, shell and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.				
 	(b)	Without using admixture, plasticiser M20 grade concrete	cum	22 07		
4	(D)	M20 grade concrete PLYBOARD SHUTTERING (FORMWORK)	cum	22.87		
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so as to give a rough finish including centering, shattering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in situ reinforced concrete and plain concrete work in:				

0 <u>00 CO</u>	<u>OPERATI</u>	VE SOCIETY	CIVIL TENDER				
4.1.1	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having plane					
		vertical face	sqm	175.30			
4.1.2	3.2.1.2	Sides and Soffits of Beams, beam haunchings, cantilever					
		girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M.	sqm	177.62			
4.1.3	3.2.1.3	Flat Surfaces such as soffits of suspended floors, roofs, landings,	sqiii	1,,,,,,,			
		cantelever slabs, chajjas, balconies and the like.					
		(a) Floors etc. upto 200mm in thickness.	sqm	99.12			
5		MASONARY WORK		*****			
5.1	4.1.1	Providing soling in foundation and under floor with stone/ best					
		quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed					
		including all labour and materials and if necessary dewatering, complete.					
		(a).Brick on flat soling.	sqm	351.94			
5.2	4.1.4	Brick work in cement morter with 1st class brick including					
		racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if					
		necessary					
	4.1.0	(d) In proportion 1:6	cum	18.29			
5.3	4.1.8	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above					
		plinth up to 1st floor level (protruding M.S rod/Tor steel of column					
		to be embeded in cement mortar and will be measured and paid separately)					
		separately,					
		(A) 112 mm thick brick wall (b) In cement mortar in proportion 1:5.(1		1		T	
		cement:5 sand)	sqm	190.86			
6	5.7.0.1						
6.1	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings,					
		risers and treads of steps over 15 mm thick base of cement mortar in					
		prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush					
		pointing with Fix-A-Tile					
		(Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved					
		pigment to match the shade of the tiles, complete all levels as					
		specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the					
		Department)					
		a) Normal range					
	(::)	Somany/ Orient/Nitco /Varmora/VITA/ Marbito/ Make Of size 600mmx600mm and above				T	
6.2	(ii) 5.3.2	Brick-on-flat floor with 1st class brick and grouted with cement	sqm	145.35			
0.2	3.3.2	mortar in prop. 1:4 (1 cement : 4 sand) including 15mm thick					
		cement plastering in proportion 1:2 (1 cement : 2 sand) finishing with a floating coat of neat cement finish using cement slurry @					
		2.75 kg. per sq. metre of floor area					
	£ 1	and curing complete.	sqm	145.35			
6.3	5.1 5.1.4	CEMENT CONCRETE FLOORING 65 mm thick cement concrete floor consisting of 50 mmunder		1			
		layer of cement concrete in prop. 1:3:6 (1cement : 3coarse sand :					
		6 coarse aggregate of 25mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2(1cement :1 coarse sand : 2					
		coarse aggregate of size10mmdown) laid in panels and finished					
		with a floating coatof neatcement finish (using cement slurry for bond @ 2.75 kg. persquare metre of floor area) including					
		curing etc.					
7		complete as directed. CEMENT PLASTERING	sqm	36.72			
7.1	6.2.2	15 mm thick Cement plaster in single coat on single or half brick					
		wall for interior plastering up to 1st floor level includingarises,					
		internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing					
		complete as directed.					
		A) On rough side b) In cement mortar 1:4	sqm	286.44		<u> </u>	
7.2	6.2.3	20 mm thick Cement plaster in two coats on single or half brick	oqiii	200.77		l	
		walls for interior plastering up to 1st floor level including arises,					
		internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including					
		curing complete as directed.					
		A) On rough side (backing coat 15 mm and finishing coat5mm					
		thick)				Т	
		b) In cement mortar 1:4	sqm	188.73			

<u> </u>	OPERATI	VE SOCIETY				CIVIL TEND	PER
7.3	6.2.5	Extra over item no 6.2.1 to 6.2.3 for plastering on celling andsoffits of stairs up to 1st floor level (instead of plastering on walls) including curing complete as directed.	sqm		99.12		
8		ROOFING	sqiii		22.12		
8.1	8.1.35	Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses, purlins etc. to be measured and paid separately.) TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick	sqm		308.49		
8.2	8.1.36	Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement (ii) 0.45 mm thick	R.m		31.80		1
9		WOOD WORKS	IX.III		31.60		
9.1	9.18.1	Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed tothe door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)					
		(b) 35mm thick	sqm		10.71		
10		GRILL					
10.1	10.2	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, squre or round M.S. bars with round headed bolts and nuts or screws. I. Plain grill					
		(c) Fixed to Brickwork/P.C.C/R.C.C.	kg.		1,102.00		
11		ALUMINIUM WINDOWS Providing, fitting and fixing anodised aluminium sliding windows					
		and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) andproviding and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels.					
11.1.1	(a)	2 track sliding windows (i) 6mm clear glass	sqm	1	0.00		
11.1.2	(b)	3 Track sliding window		1	55.08		
12		(i) 6mm clear glass PAINTING	Sq.m		33.00		
12	13.3	PLASTER OF PARIS & WALL PUTTY					
12.1	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) Thickness = 1.5 mm thick	sam		475.17		
—	13.4	THERMOSS = 1.3 IIIII UHCK	sqm		4/3.1/		
12.2	13.4.1	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after throughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth. (a).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	sqm		286.44		
12.3	13.4.5	Extra over item no 13.4.1 above for painting with acrylic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on celling and on sloping roof. (i).Acrylic Emulsion Paint approved brand and manufacture (Asian	•	<u>.</u>	,		
		paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	sqm		99.12		
	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE					

000 00	D COOPERATIVE SOCIETY				CIVIL TENDER					
12.4	13.7.2	Applying primary coat over new steel and other metal surface over 100m in width or girth after preparing the surface by throughly cleaning oil,grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper. a). With ready mixed "red-lead/ red oxide" primer.			110.16		I			
			sqm		110.10					
12.5	13.7.4	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture(Asian paint/ Berger paint/ ICI paint/J & N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.								
		(i).Surfaces over 100mm in width or girth.			1		1			
		a). General purpose (Asian paint/ Berger paint/ ICI paint/ J& N paint/ Nerolac).			110.16					
	13.9	SPECIAL WEATHER PROOF COLOURING	sqm		110.10					
12.6	13.9.5	Finishing wall with water proofing weather coat smooth antifungal								
		exterior painting of Ace brand of Asian Paints and ofrequired shade on old/new wall surface after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	sqm		188.73					
13		DOOR AND WINDOW FITTINGS					•			
	15.2	ALUMINIUM FITTINGS								
13.1	15.2.1	Supplying, fitting, fixing anodised aluminium fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)								
13.1.1	A	Sliding door bolts								
	(ii)	250mm x16mm sliding door bolt.	Each		3					
13.2	В	Tower bolt								
	(iii)	200mm x 10mm tower bolt.	Each		8					
13.3	С	Door handles			-					
14		150 mm STEEL AND IRON WORKS	Each		8					
14	18.1	REINFORCEMENT								
		conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)								
	18.3	b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) ROOF TRUSS	Qtl		43.30					
14.2	18.3.2	Providing, fitting, hoisting and fixing of roof trussesfabricated out								
14.2		of combination of any two or all of the following sections (i) Square section (ii) Rectangular Hollowsection of specification RSH/SHS and (iii) M.S. circular hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts and nuts with red oxide primer including fitting bottom runner and cleat etc. for fixing ceiling joist as per design complete as directed as per specifications.								
	(b)	Using other ISI marked approved brand tube	Qtl		40.59					
14.3	18.7 18.7.2	DOOR FRAMES								
14.3	10.7.2	Providing, fitting and fixing powder coated pressed steel door frame made of 1.25mm/ 1.6mm thick sheet of various sizes with necessary hinge jamb, lock jamb, head and steelbase ties at the bottom of the frame. The whole frame shall be welded or rigidly fixed together by mechanical means with base ties of pressed mild steel angle of size 20x20x1.25mmthick. Frame to be filled up with 1:4:8 P.C.C. after fitting the frame with brick/ concrete works etc.complete as directed by the department for all levels. (P.C.C. to be measured and paid for seperately).		•	· · · · · ·					
		(iii) Size 125mm x 60mm (Single rebate)	R.m	\perp	21.90					
15		PLINTH PROTECTION WORKS AND PERIPHERY								
15.1	19.2	Providing plinth protection with bricks flat laid in cement								
		mortar 1: 4 and finished with 15mm thick cement plaster inprop. 1:2 with a floating coat of neat cement finish.	sqm		31.68					

MEGHA FOOD COOPERATIVE SOCIETY

<u> </u>	<u> </u>	VE 30 CIETT		CIVIL ILIVE		
15.2	19.5	Providing drain with brick work in cement mortar in proportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified.				
		ii). 300mm wide and average 250mm deep with bed slope1 in 150 with initial depth of 100mm.	R.m	74.60		
16		ANTI TERMITE TREATMENT				
	26	PRE CONSTRUCTION ANTI - TERMITE TREATMENT				
16.1	26.1.1	Pre construction anti - termite treatment at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plinth beam, wall, trenches etc. by applying the emulsion @5 (five) litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.				
		a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (tricel or euivalent) and water, i.e. 1% solution. TOTAL COST OF BUILDING CIVIL WORKS	Sqm	27.00		
		TOTAL GOOT OF BUILDING GIVIE WORKS			SAY	
						1

		GROW HOUSE				
1. Are	ea of Grou	and floor = 31.00 M^2 .				
Ite BOQ	M No.	Description of work	Unit	Qty.	Rate in Rupees	Amount in Rupees
1	1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.		-		•
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	15.58		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least 750mm under ground and tied with wire or cane @ 1500 to 2000 c/c at least 3000 TO 4500 above plinth level.	Each	14.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to weather, tied with necessary bamboo kamis on both sides @300mm apart tied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows of bamboo tarja on bamboo frames.	Sq.m	74.10		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.				
	(b)	150 mm thick.	Sqm	39.38		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun grass of 75 mm thick (fine work) stiffened with bamboo slips of size 30mm x 6mm and tied with galvd. tying wire complete.	RM	8.95		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm x 38mm including tying to the purlins and rafters with cane slip or galvd. tying wire.				
	(a)	Fine work	Sqm	39.38		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	39.38		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane sling / Galvd. tying wire.				
	(a)	(a) With Bhaluka bamboo.	RM	107.40		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.	Sqm	9.00		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	39.38		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	39.38		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	31.00		
	1	TOTAL COST OF BUILDING CIVIL WORKS	·	<u> </u>		
					SAY	

Iter	m No. APWD 1.3	d floor = 57.21 M ² . Description of work				
BOQ	APWD	Description of work				
		Description of work			Rate in	
1	1.3	•	Unit	Qty.	Rupees	Amount in Rupees
		Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.				
	(b)	With hill sand obtained by truck carriage loading and unloading, and carriage to the site of work.	Cum	25.58		
2	N.S.	Bhaluka bamboo dressed post 75mm to 100mm dia driven at least 750mm under ground and tied with wire or cane @ 1500 to 2000 c/c at least 3000 TO 4500 above plinth level.	Each	24.00		
3	N.S.	Spilt bamboo diagonally woven tarja wall with fair side exposed to weather, tied with necessary bamboo kamis on both sides @300mm aparttied with galvanised wire/cane slit and fixed to bamboo posts etc complete as directed including making provision for doos and windows of bamboo tarja on bamboo frames.	Sq.m	94.44		
4	8.1.11	Providing thatch roofing with sun grass (Ullo) in layer of 75 mm thick with half spilt bamboo fillet and tying with galvd. wire complete.	•			•
	(b)	150 mm thick.	Sqm	162.96		
5	8.1.12	Providing and laying thatching, capping to ridge and hip with new sun grass of 75 mm thick (fine work) stiffened with bamboo slips of size 30mmx 6mm and tied with galvd. tying wire complete.	RM	23.88		
6	8.1.15	Providing and laying bamboo slip jaffri of meshes not exceeding 63mm x 38mm including tying to the purlins and rafters with cane slip or galvd. tying wire.				
	(a)	Fine work	Sqm	162.96		
7	8.1.16	Providing single layer of bamboo mat lining over roof frame.	Sqm	162.96		
8	8.1.17	Providing bamboo maruli ties, purlins, rafters including tying with cane sling / Galvd. tying wire.	ı			
	(a)	(a) With Bhaluka bamboo.	RM	210.48		
9	8.1.18	Providing bamboo roof truss with whole ruas bam boo and kamis, ruas placed at 150 mm apart and kamis 200mm to 230mm apart including tying all members with galvd tying wire.	Sqm	32.72		
10	8.1.19	Providing bamboo jaffri over thatch roof with 200mm sq mesh bamboo slips of 35mm width	Sqm	162.96		
11	8.1.21	Providing bamboo roof frame with kami of size 30mm x 6mm.	Sqm	162.96		
12	5.3.1	Brick-on-edge floor with 1st class brick and grouted with cement mortar in prop.1:4 (1 cement : 4 sand) including cement pointing in proportion 1:1 (1 cement :1 sand) finishing and curing complete.	Sq.m	57.21		
		TOTAL COST OF BUILDING CIVIL WORKS				
					SAY	

<u>00 CO</u> C	JPEKA IIV	'E SOCIETY		CIVIL TEND	EK	
		TRAINING & OFFICE	E BUIL	DING		
1. Are	ea of Grou	and floor = 57.6	50 M ² .			
ITEM N		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
BOQ	APWD					
	Α	CIVIL WORKS				
1		EARTH WORK				
1.1	1.1	Earthwork in excavation for foundation trenches of walls				
		retaining walls, footings of column, steps, septic tank etc including refilling (return filling) the quantity as necessary				
		after completion of work, breaking clods in return filling				
		dressing, watering and ramming etc. andremoval of surplus				
		earth with all lead and lifts as directed and specified in the				
		following classification of soils including bailing out water where necessary as directed and specified.				
		where necessary as unrected and specified.				
	(A)	Up to a depth of 2.00m below the existing ground				
	` ′	level.				
	(a)	In ordinary soil	cum	25.63		
1.2	1.3(c)	Earth / Sand filling in plinth in layer not more than 150mm				
		thick including necessary, carriage, watering,ramming etc.				
		complete as directed and specified including payment of land compensation, ForestRoyalty, Sales Tax and other duties				
		and taxes as maybe necessary. (c) with river sand or silt				
		(predominantlynon plastic) by truck carriage including				
		loading and unloading				
		NOMINAL MIX (B C C MODICE)	cum	25.92		
2 1	211	NOMINAL MIX. (P.C.C. WORKS)				
2.1	2.1.1	Plain cement concrete works with coarse aggregate of size 13mm to 32mm in foundation bed for footings, tie beams				
		steps, walls, brick works etc. as directed and specified				
		including dewatering if necessary and curing complete				
		(shuttering where				
2.1.1	a)	necessary shall be measured and paid separately). In prop. 1 cement : 3 sand : 6 coarse aggregate by				
2.1.1	<i>u)</i>	volume	cum	6.14		
2.2	2.1.3	Providing and laying 25mm thick damp proof course with				
		cement concrete in prop 1: 1.5: 3 with graded stoneagg. Of				
		10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the				
		manufacturer including curing etc.complete as directed.				
			sqm	3.20		
3		REINFORECED CEMENT CONCRETE WORKS				
3.1	2.2.1	Providing and laying plain/reinforced cement croncrete works cement, coarse sand & 20mm down graded stone aggregate				
		including dewatering if necessary, and curing complete but				
		excluding cost of form work and reinforcement for reinforced				
		cement concrete work (form work and reinforcement will be				
		measured and paid separately)				
	(I)	Using Mixer Machine				
3.1.1	(A)	In substructure up to plinth level				
	` '	Foundation, footing, columns with base tie and plinth beam				
		pile cap, base slab, retaining walls, walls of septic tank				
		inspection pit and the like and other works not less than				
	N)	100mm thick up to plinth level. Without using admixture, plasticiser				
	(b)	M20 grade concrete	cum	7.17		
3.2	(B)	In super structure from plinth level up to 1st floor	Cam	7.17	<u> </u>	<u> </u>
	` ′	level.				
3.2.1	(ii)	Columns, pillars, posts, struts, suspended floor, roof, landing,				
		shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and				
		landing) including preparing the top surface and finishing of				
		nosing.				
	N)	Without using admixture, plasticiser				
	(b)	M20 grade concrete	cum	9.12		

5.11 ANTISKID TILES

4		PLYBOARD SHUTTERING (FORMWORK)			
4.1	3.2.1	Providing form work of 12mm thick Plywood Board so as to			
		give a rough finish including centering, shattering, strutting			
		and propping etc., height of propping and centering below			
		supporting floor to ceiling not exceeding 4.0M and removal o			
		the same for in situ reinforced concrete and plain concrete			
		work in:			
4.1.1	2011				
4.1.1	3.2.1.1	Columns, Pillars, Posts & Strut of square/ rectangular/ polygonal in plan or any shape like Tee/L etc. having			
		plane vertical face	sqm	69.15	
4.1.2	3.2.1.2	Sides and Soffits of Beams, beam haunchings,	sqiii	07.13	
7.1.2	3.2.1.2	cantilever girders, bressumers, lintels and horizontalties.			
		canale ver graces, eressamers, mices and nonzonames.			
		(a) For depth not exceeding 1.0M.	sqm	70.68	
4.1.3	3.2.1.3	Flat Surfaces such as soffits of suspended floors, roofs,			
		landings, cantelever slabs, chajjas, balconies and thelike.			
		(a) Floors etc. upto 200mm in thickness.	sqm	32.04	
5		MASONARY WORK			
5.1	4.1.1	Providing soling in foundation and under floor with stone			
		best quality picked jhama brick, sand packed andlaid to leve			
		and in panel after preparing the subgrade as directed including			
		all labour and materials			
		and if necessary dewatering, complete. (a).Brick on flat soling.	cam	81.86	
5.2	4.1.4	Brick work in cement morter with 1st class brick	sqm	01.00	
3.2	4.1.4	including racking out joints and curing complete as			
		directed.			
5.2.1		(I) In Sub-structure upto plinth level including			
		dewatering if necessary			
		(d) In proportion 1:4	cum	6.19	
5.3	4.1.8	1st class brick nogged wall in cement mortar including		1	1
		racking out joints and curing complete as directed in super			
		structure above plinth up to 1st floor level (protruding M.S			
		rod/Tor steel of column to be embeded			
		in cement mortar and will be measured and paid			
		separately)			
		(A) 112 mm thick brick wall		1	
		(b) In cement mortar in proportion 1:5.(1 cement:5 sand)	sqm	61.36	
6		FLOORING AND FLOOR FINISH	sqiii	01.50	
6.1	5.7.1.2	Providing polished ceramic wall tiles of approved quality,			
0.1	3.7.1.2	size, shape and thickness not less than 8mm on walls and			
		skirtings over cement mortar bed 10 mm thickin prop. 1:3 (1			
		cement: 3 coarse sand) including cutting where necessary			
		finished with flush pointing with Fix-A-Tile (Choksey / Sika			
		/ Pedelite / Rouf)			
		/white cement slurry mixed with approved pigment to match			
		shade of tiles complete at all levels as specified and directed			
		(Cement plastering to be measured and paid separately) (Coloured pigment should be in conformity with colour of			
		tiles and as approved and directed by the Department). (Walls			
		means both interiorand exterior walls).			
		,			
		b) Executive range			
		Somany/ Orient/Nitco/Asian Make			
		i) Of size 200mmx300mm and above	sqm	20.97	
6.2	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of	sqiii	20.57	
0.2	3.7.2.1	specified size, shape and thickness not less than 18mm or			
		floors, skirtings, risers and treads of steps over 15 mm thick			
		base of cement mortar in prop. 1:3 (1 cement			
		: 3 coarse sand) including cutting where necessary finished			
		with flush pointing with Fix-A-Tile			
		(Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed			
		with approved pigment to match shade of tiles, mixed with			
		approved pigment to match the shade of thetiles, complete a			
		all levels as specified and directed. (Coloured pigment should			
		be in conformity with colour of tiles and as approved and directed by the Department)			
		anceau by the Department)			
		a) Normal range			
		Somany/ Orient/Nitco /Varmora/VITA/ Marbito/ Make			
	(ii)	Of size 600mmx600mm and above			
	(11)	OT 217C OCCUMINYOOCHIM SHO SOORG	sqm	53.10	
	` ′				

י <u>סט כטכ</u>	JEKA IIV	/E SOCIETY			CIVIL TENL	ZEK
6.3	5.11.1	Providing Antiskid Tiles of approved quality size, shapenot		· · · · · · · · · · · · · · · · · · ·		
		less than 8mm on floor, skirting over a cement mortar bed				
		15mm thick of 1:3 (1 cement: 3 coarse sand)approved make				
		fix with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/ white				
		cement complete				
		at all level as specified and directed.				
		(A) CERAMIC				
		i)Normal range (Sizes 300 mm x 300mm and above)				
		(a)Orient made: Galaxy Brown, Galaxy creama, Galaxy				
		Pink, Galaxy Green, Pulsar Beige, Pulsar Blue,				
		Pulsar Dove, Pulsar Pink, Burj Brown, Burj		4.50		
		Green, Burj Slate	sqm	4.30		
	5.1	CEMENT CONCRETE FLOORING				
6.4	5.1.4	65 mm thick cement concrete floor consisting of 50 mmunder				
		layer of cement concrete in prop. 1:3:6 (1cement				
		: 3 coarse sand : 6 coarse aggregate of 25mm and down) and				
		15 mm thick wearing layer in cement concrete in prop. 1:1:2				
		(1cement :1 coarse sand : 2 coarse aggregate of size 10mm				
		down) laid in panels and finished with a floating coat of near				
		cement finish (using cement slurry for bond @ 2.75 kg. per				
		square metre of floor area) including curing etc.				
	1	complete as directed.				
			sqm	12.60		
7		CEMENT PLASTERING	[12.50		
	600					
7.1	6.2.2	15 mm thick Cement plaster in single coat on single or half				
	1	brick wall for interior plastering up to 1st floor level including				
		arises, internal rounded angles, not				
	1	exceeding 80mm girth and finished even and smooth				
		including curing complete as directed.				
	1	A) On rough side				
				=		T
		b) In cement mortar 1:4	sqm	71.00		
7.2	6.2.3	20 mm thick Cement plaster in two coats on single or half				
		brick walls for interior plastering up to 1st floor levelincluding				
		arises, internal rounded angles, chamfers and				
		/ or rounded angles not exceeding 80mm in girth and finished				
		even and				
		smooth including curing complete as directed.				
		A) On rough side (backing coat 15 mm and finishingcoat				
		5mm thick)				
		b) In cement mortar 1:4	sqm	84.00		
7.2	625	*	sqiii	01.00		
7.3	6.2.5	Extra over item no 6.2.1 to 6.2.3 for plastering oncellingand				
		soffits of stairs up to 1st floor level (instead of plastering on				
		walls) including curing complete as directed.				
			sqm	33.00		
8		ROOFING	- 1			
	0.1.25					
8.1	8.1.35	Providing Pre Painted Galvalume Sheet Roofing(PPGL) at				
		all levels including fitting and fixing selfdrilling, self				
		tapping screws complete (Roof trusses,purlins etc. to be				
		measured and paid separately.) TATABlue scope/ Dyna roof				
	1	/ Durakolor /Wonder Roof orequivalent as directed by the				
	•	1				
1		Departement				
1		Departement (**) 0.45				T
		(ii) 0.45 mm thick	sqm	61.00		
8.2	8.1.36		sqm	61.00		
8.2	8.1.36	(ii) 0.45 mm thick	sqm	61.00		
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including	sqm	61.00		
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete.	sqm	61.00		
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor	sqm	61.00		
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete.	sqm	61.00		
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement	•			
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor	sqm R.m	61.00		
8.2	8.1.36	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement	•			
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS	•			
	9.18.1	(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo	•			
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasoned	•			
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm	•			
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from	•			
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9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, boltetc. as specified and	•			
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made fron hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolt etc. as specified and directed at all levels (Door fixtures and fittings to be	•			
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasonee 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made fron hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolt etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)	R.m	21.00		
9		(ii) 0.45 mm thick Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete. TATA Blue scope/ Dyna roof / Durakolor /Wonder Roofor equivalent as directed by the Departement (ii) 0.45 mm thick WOOD WORKS Providing, fitting and fixing factory made Santro Flush doo shutters having core & cross bands fabricated fromseasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made fron hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolt etc. as specified and directed at all levels (Door fixtures and fittings to be	•			

		COOPERATIVE SOCIETY				CIVIL TENDER
ITEM N		DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
BOQ	APWD	CPILL				
10 10.1	10.2	GRILL Providing, fitting and fixing M.S. grill of required patternfor				
		windows/ clerestory windows/ openingwith				
	l	M.S. flats at required spacing in frame all round, squre				
	l	or round M.S. bars with round headed bolts and nutsor screws.				
	l	I . Plain grill				
	l	(c) Fixed to Brickwork/P.C.C/R.C.C.	kg.	281.00		<u> </u>
11		ALUMINIUM WINDOWS	6-	201.00		
11.1	11.1.2	Providing, fitting and fixing anodised aluminium sliding				
	l	windows and ventilators of standard sections of approved				
	l	brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and				
	l	providing and fixing handles, angle cleat, rubber gasket				
1	ļ	roller, bolting device, locking arrangements, screws etc a				
1	ļ	required complete as				
11 1 1	7.5	specified and directed for all levels. 2 track sliding windows				
11.1.1	(a)	2 track sliding windows (i) 6mm clear glass	sqm	1.08		
11.1.2	(b)	3 Track sliding window	ુનાા	1.08		<u>. </u>
		(i) 6mm clear glass	Sq.m	12.96		
	12	PAINTING				
	13.3	PLASTER OF PARIS & WALL PUTTY				
12.1	13.3.4	Providing two coats of Birla White Wall Care Putty (Wate Resistant White Cement based putty for concrete/ mortal	_	_	_	
I 1	ļ	Resistant White Cement based putty for concrete/ mortal walls and ceiling both internal and external) after removing all				
I 1	ļ	loosely adhering material from the wall surface with the help				
I 1	ļ	of emery stone, puttyblade or wire brush and moistening the				
I 1	ļ	wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats it				
	ļ	directed by the department. (Total thickness of two coats it maximum 1.5mm)				
	<u> </u> _		_	_		
L 1	(i)	Thickness = 1.5 mm thick	sqm	84.00		
	13.4	WALL PAINTING				
12.2	13.4.1	Wall painting (two coats) with acrylic emulsion pain				
[ļ	approved brand and manufacture (Asian paint/ Berger paint ICI paint/ J & N paint/ Nerolac) on new surfaceto give an ever				l
I 1	ļ	shade after throughly brushing the surfaces free from morta				l
	ļ	droppings and other foreign matter and sand papered smooth.				l
I 1	ļ					
I 1	ļ	(a).Acrylic Emulsion Paint approved brand and	_	ı ¬		-7
I 1	ļ	manufacture (Asian paint/ Berger paint/ ICI paint/ J &N paint/ Nerolac)	sqm	71.00	'	Į l
12.3	13.4.5	Extra over item no 13.4.1 above for painting with acrylic	A			
	ļ	emulsion paint of approved brand and manufacture (Asian				
	ļ	paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on celling and on sloping roof				
	ļ	and on sloping roof. (i).Acrylic Emulsion Paint approved brand and	 1	 		,
	ļ	(i).Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J &N	İ		'	Į l
	<u> </u>	paint/ Nerolac)	sqm	33.00	ˈ	
	13.7	PAINTING ON STEEL AND OTHER METAL SURFACE				
12.4	13.7.2	Applying primary coat over new steel and other metal surface	_			
	ļ	over 100m in width or girth after preparing the surface by throughly cleaning oil, grease, dirt and other foreign matter				
	ļ	and scoured with wire brushes, fine steels, wood scrapers and				
	ļ	sand paper.				
	ļ	• •				
	<u></u>	a). With ready mixed "red-lead/ red oxide" primer.	sqm	30.00		
12.5	13.7.4	Painting two coats (excluding priming coat) on new steeland other metal surface with enemal point of approved brand and				
	ļ	other metal surface with enamel paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint				
	ļ	Nerolac) to give an even shade including cleaning the surface				
	ļ	of all dirt, dust and other				
	ļ	foreign matter.				
	ļ	(i).Surfaces over 100mm in width or girth.		1		
	ļ	a). General purpose (Asian paint/ Berger paint/ ICI paint/ I & N paint/ Nerolac)	602	20.00	_ 	
	13.9	paint/ J & N paint/ Nerolac). SPECIAL WEATHER PROOF COLOURING	sqm	30.00	'	<u> </u>
12.6	13.9.5	Finishing wall with water proofing weather coat smoothanti-		 	 1	
		fungal exterior painting of Ace brand of Asian Paints and of	İ		·	Į l
	ļ	required shade on old/new wall surface after cleaning and	İ		'	Į l
	ļ	clearing the surface etc. including scaffolding complete as directed at all levels (two coats)			·	Į l
	ļ	Zarezana an iercia (two coata)	sqm	84.00	'	Į l
	<u> </u>		~4111	0-7.00		

		OOPERATIVE SOCIETY	-			CIVIL TENDER
ITEM N BOQ	O. APWD	DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
13	AF WU	DOOR AND WINDOW FITTINGS				
	15.2	ALUMINIUM FITTINGS				
13.1	15.2.1	Supplying, fitting, fixing anodised aluminium fittings o				
		approved make, resonably smooth, free from sharp edges and				
		corners, flaws and other defects and with counter sunk hole				
		for screws including necessary				
		aluminium screws etc. complete.(anodised to bright natural matt & satin finished)				
13.1.1	A	Sliding door bolts				
10.1.1	(ii)	250mm x16mm sliding door bolt.	Each	1		
13.2	В	Tower bolt				L
	(iii)	200mm x 10mm tower bolt.	Each	6		
13.3	С	Door handles				
		150 mm	Each	6		
13.4		l) Hydraulic door closure	Each	2		
13.5 14		t) Door stopper with rubber stopper STEEL AND IRON WORKS	Each	2		
14	18.1	REINFORCEMENT				
14.1	18.1.1	Supplying, fitting and fixing in position reinforcement bars				
1 1.11	10.1.1	conforming to relevant I.S. Code for R.C.C. work/				
		R.B. walling including straightening, cleaning, cutting and				
		bending to proper shapes and length as per details, supplying				
		and binding with 20G annealed blackwire and placing in				
		position with proper blocks, supports, chairs, spacers etc complete.				
		(No extra measurement for lap, hook, chair, anchor etc.will be				
		entertained in the measurement as they are included in the				
		rate) (Upto 1st floor level)				
		1) 01 101		1		T
		b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX)	Qtl	5.82		
	18.3	ROOF TRUSS	Qu	3.02		
14.2	18.3.2	Providing, fitting, hoisting and fixing of roof trusses				
		fabricated out of combination of any two or all of the				
		following sections (i) Square section (ii) Rectangular Hollow				
		section of specification RSH/SHS and (iii) M.S. circular				
		hlollow section of Grade 210 including purlins, bottom runners and providing M.S. cleat, M.S. angle base plank, bolts				
		and nuts with red oxide primer including fitting bottom				
		runner and cleat etc. for fixing ceiling joist as per design				
		complete as directed as per specifications.				
	(b)	Using other ISI marked approved brand tube	Qtl	17.00		
	18.7	DOOR FRAMES	Qu	17.00		
14.3	18.7.2	Providing, fitting and fixing powder coated pressed steedoo				
		frame made of 1.25mm/ 1.6mm thick sheet of various size				
		with necessary hinge jamb, lock jamb, head and steel base ties				
		at the bottom of the frame. Thewhole frame shall be welded o				
		rigidly fixed together by mechanical means with base ties of pressed mild stee angle of size 20x20x1.25mm thick. Frame to				
		be filled upwith 1:4:8 P.C.C. after fitting the frame with brick				
		concrete works etc.complete as directed by the department fo				
		all levels. (P.C.C. to be measured and paid for seperately).				
		(a) 1.25mm thick sheet				
		(iii) Size 125mm x 60mm (Single rebate)	D m	16.00		<u> </u>
15		PLINTH PROTECTION WORKS AND PERIPHERY	R.m	16.00		
15.1	19.2	Providing plinth protection with bricks flat laid in cemen				
		mortar 1: 4 and finished with 15mm thick cement plastering				
		prop. 1:2 with a floating coat of neat				
4		cement finish.	sqm	40.00		
15.2	19.5	Providing drain with brick work in cement mortar in				
		proportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including				
		15mm thick cement plastering in prop. 1:3 finished with a				
		floating coat of cement slurry as directed with necessary				
		shttering for sides and earth work in excavation of foundation				
		trenches and refilling the sidesafter completion of work etc. as				
		specified.				
		ii). 300mm wide and average 250mm deep with bed				T
		slope 1 in 150 with initial depth of 100mm.	R.m	71.80		
Ітем N	O.	DESCRIPTION OF WORK	Unit	QTY.	RATE IN RUPEES	AMOUNT IN
	-	Jan 1101, 01 #ORK	J.111	<	II. IIII	

Each

2

complete as directed and specified.

 $(i)\ Rupa\ 32mm\ (HT/\ FT)\ (Cat.No.WS-0801)$

pipe complete as directed and specified.

Providing, fitting and fixing Chrome Plated bottle trap

(b) Sona

10

(a) Sona make (i) Pipe for bottle trap 300mm long (Cat. No.BT-0761) Each 11 1.37.1 Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Supreme/Prince) or other ISI approved including joining fitting and fixing wiyh clamps etc.as necessary, complete at all levels including below G.L as directed and specified. (a) In exposed surfaces or in trenches. 110mm dia. (ii) R.m 15.00 Supplying fiting and fixing 87.5 degree PVC bend with doo 12 1.37.3 of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. In exposed surfaces or in trenches. (a) 110mm dia. (ii) Each 13 1.37.6 Supplying fiting and fixing PVC single tee with door o (Supreme/Prince) or other ISI approved including joining fitting and fixing etc. as necessary complete at all level including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia. Each 14 1 39 Providing fitting and fixing PVC cowel of ISI make complete as directed and specified. (ii) 110mm dia. PVC cowel of ISI make Each 15 1.42 C.P. Grating (ii) 110 mm dia Each 4 **INTERNAL WATER SUPPLY WORKS** 3.1.6 Providing and fixing Chlorinated Polyvinyle Chloride 1 (CPVC) Pipes, having thermal stability for hot and cold wate supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipe Α In exposed surfaces or in trenches. 1.1 1.1.1 (c) 25 mm nominal outer dia pipe R.m 10.00 1.1.2 (f) 50 mm nominal outer dia pipe R.m 10.00 1.2 В Concealed pipe with cutting chases & making good the walls 15 mm nominal outer dia pipe 1.2.1 (a) R.m 6.00 20 mm nominal outer dia pipe 1.2.2 R.m (h) 6.00 Supplying fitting and fixing C.P. bib cock 15mm dia of 2 3.2.1 approved brand directed and specified. (G.I. & C.Ppipes will be measured separately) (IV) Agmeco brand Bib Cock Two way with Flange CAT No.CC (v) 00203/CAT No.CN 00203 Each 3.3.2 Supplying fitting and fixing chrome plated (C.P.) stop- cocl 3 of approved brand and size as mentioned below as directed and specified.(G.I. & C.P pipes will be measured and paid separately) (II) Agmeco Brand 15mm dia(Male/ Female) 3.1 Each (a) 3.2 (h) 15mm dia(Concealed) Each 3.5.1 Supplying and fitting fixing C.P. pillar cock of 15mm 4 dia of approved brand as specified and directed. (III) Agmeco (classic) Each TOTAL COST OF BUILDING CIVIL WORKS SAY

	BOQ for Engineering, Design and Achitect and		_	_	
S.No	Description	Unit	Qty	Rate	Amount
1	Architectural Drawings, Design and Documentation				
	Services; based on the outline drawings provided				
	consists of further design development drawings and				
	Construction Documents culminating in the following				
	(as applicable to the project):				
	Architectural Cover Sheet (Project Data, Maps,				
	Notes, etc.)				
	Architectural Site Plan and Details				
	Architectural Floor Plan (Dimensioned with notes,				
	wall types, key notes, etc.)				
	Door Types, Door & Hardware Schedules, Interior				
	Door and Window Details, etc.				
	Exterior Door and Window Details				
	Roof Plan and Details				
	Building Sections Malla Captions				
	Walls Sections Puilding Florations				
	Building ElevationsInterior Elevations (Cabinet and Room)				
	Millwork Details				
	Reflected Ceiling Plan and Details				
	Equipment Plan and Notes				
	Project Manual/Specifications Book				
2	Civil Engineering Drawings: Topographic and Tree				
_	Survey, plus Geotechnical Testing (Soils – if needed)	1 -1			
	to be performed prior to commencement of the	Lot	1		
	work.				
	WOTK.				
3	Structural Engineering Drawings:				
	Foundation Plan (with Details and Notes)				
	• Framing Plans (Details, Roof and Special Conditions)				
	,				
4	MEP Engineering Drawings (Mechanical, Electrical				
	and Plumbing): • Mechanical Plan (HVAC with				
	Equipment Schedules and Details)				
	• Electrical Plans (Power, Lighting, Fixture Schedules,				
	and Details)				
	 Plumbing Plans (Wastewater, Venting, Domestic 				
	Water, Air, Vacuum and Medical Gases); also,				
	Plumbing Riser Diagrams with Plumbing Notes and				
	Schedules.				
5	Interior Design Drawings (Furniture, Art and				
	Accessories): • Floor Finish Plan and Finish Schedule				
_	3D design of the final approved plan				
6.	CONSTRUCTION ADMINISTRATION & OTHER				
	REQUIREMENTS:				
	Initial Site Visit/Pre-Construction followed by				
	regular Site Visits based on completion of work to be				
	observed	Lot	1		
	Certificate of interim construction completion				
	Final Inspection (at completion of work)				
	Certificate of final completion of construction				
	 The Consultant shall accept full responsibility to 				
	comprehend and verify the required Deliverables as				
	stated in the Scope of Work and provide all				
	information as described above. The Consultant shall				
	be knowledgeable of the project site, its conditions,				
	and all other constraints that may impact the fee.				

approvals that will be required for the project. • The Consultant shall complete the Design and support in Bid Documents in accordance with the Scope of Work, Budget, and Schedule. • To minimize errors and omissions, the Consultant shall perform a comprehensive internal Quality Control (QC) of all design documents prior to the issuance of all Conceptual Plan for preparation of Bid Documents. • The Consultants design and construction administration team shall remain consistent throughout the duration of the project. All drawing and construction reports to be certified by a registered Architect	Lot	1	
The Consultant shall understand all administrative			
''			
To minimize errors and omissions, the Consultant			
administration team shall remain consistent			
throughout the duration of the project.			
·			
by a registered Architect			
TOTAL	Lot	1	

SUMMARY OF ELECTRICAL WORKS FOR

PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR,
NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for
Electrical Works 2013-14

Amount

- 1 TOTAL INTERNAL ELECTRICAL WORKS OF OFFICE BUILDING
- 2 TOTAL INTERNAL ELECTRICAL WORKS OF VALUE ADDITION AREA BUILDING
- 3 TOTAL INTERNAL ELECTRICAL WORKS OF BAG MAKING SECTION BUILDING
- 4 TOTAL INTERNAL ELECTRICAL WORKS OF SPAWN MAKING SECTION BUILDING
- 5 TOTAL INTERNAL ELECTRICAL WORKS
- **6 TOTAL EXTERNAL ELECTRICAL WORKS**
- 7 Total Internal and External Electrical (Rs.)

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14 **BAG MAKING SECTION** SI Description APWD SL Units Rate Otv Amount No. NO. **SCHEDULE ITEMS** A. PART - 2 Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single 2.1 core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductorfor voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/MS switch board (ISI marked) with phenolic laminated sheet cover ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete Short point up to 3.00 metre. length. 2.1.1 Each Medium point up to 6.00 metre. Length. Each 20 2.1.3 Long point up to 10.00 metre. Length. Each 2.2 2 Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductorfor voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed 2 mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system including 5 pin 6 Amps flush type plug socket and 6 Amps F/T switch (Anchor penta /Gold medal Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete, when placed elsewhere. 2.2.2 Medium point up to 6.00 metre. Length. Each Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated 2.4 3 single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm.dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia) Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) Extra long point up to 15.00 metre. length. 2.4.1 Each 2.4.2 Extra long point up to 20.00 metre. Length. Each 2.4.3 Extra long point up to 25.00 metre. Length. Each

Sl No.		D SL	Description	Units	Qty	Rate	Amount
4	NO. 2.10		Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush typeswitch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the				
			Deptt.)make) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same				
			board of light and fan.	Each	1		
5.	2.7		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade				
			up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit wiring system.				
			With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	70		
		2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	130		
6.	2.9		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
		2.9.3	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	90		
			With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	85	VEC PR	
	PART	-15	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) a Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY			NEO BRI	eak, C&S,
			MCB IN-comer TPN (Horizontal DB)				
7.	15.8	1501	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door IP-43 double door surface mounting TPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
		15.8.1 15.8.1.1	ABB, Schneider MG, legrand, Hager make) 4 way TPN (4+12) double door	Each	1		
		15.8.1.3	8 way TPN (4+24) double door	Each			
	PART	- 16	MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRANI (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL OBY THE DEPTT.) MCB (Conform to IS/IEC 60898-1:200/MCCB (Conform to IS/IEC 60947-RC	R EQUI	VALEN	Γ MAKE A	S PPROV
3.	16.1		Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.				
		16.1.2	C Series (Schneider MG, legrand, Hager make)	F 1			T
		16.1.2.1 16.1.2.2	6 to 32A 40A	Each Each	12		
9.	16.6	10.1.2.2	Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.	Eacil	l υ		<u> </u>
		16.6.2	C Series (ABB, Schneider MG, legrand, Hager make)				
		16.6.2.2	40A	Each	1		

	T FOOD COOPER				IVIL TENDER		
Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
	PART	`-22	EARTHING				•
10.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt		2		
11.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pitto				
	22.12	22.12	provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		
12.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		20		
	PART	-32	U. G. CABLE AND CABLE WORKS				
13.	32.11	32.11.4	Supply and laying of following size Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, unarmoured/Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 laid in air or through existing cable trench/duct/cable tray/ HDPE pipe including fitting required size of lugs at the both end of the cable by using crimping tool and making good damaged done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make). Core - 3.5A2XFY				
		32.11.4.1	25 Sq.mm 3 and 1/2 core armoured cable	Metre	50		
ΓEN	IS APP	ROVED	BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDMAR	I, GUW	AHATI-3	ON DAT	ED 09-09-20
14.		4	Supplying, installation, testing and Commission of the following indoor Decorative Recess mounted LED down lighter luminaries of model no-LESP01R009XC / LESP01R009XN /LESP01R009XW / L00957R000 / L00940R000 / L00930R000 /LD90-111 - XXX-65-XX complete with all accessories such as ballast, starter etc. In the false ceiling type Armstrong /Gypsum or similar ceiling mounting with necessary support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required and as directed by the department (Jaquar / LT / Wipro make). [CL]		2		
15.		10	Supplying, fitting fixing of LED Batten Tubes high quality aluminium				
			extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department.				
		b)	BN021C LED 20 PSU CW GR S2 [TL]	Each	40		
			Total of Schedule Items (A)				
16.			Less 5% VAT added in SOR				
16.			Less 5% VAT added in SOR Total of Schedule Items less 5% VAT (B)				
16. 17.							

Sl	APWD SL	Description	Units	Qty	Rate	Amount
lo.	NO.		Units	Qty	Kate	Amount
	В.	NON-SCHEDULE ITEMS	l	l l	ı	
20.		MAIN LT PANEL-[BAG MAKING SECTION BUILDING]				
	Analysis	Supplying and installation of metal enclosed wall/floor mounted front				
	J	operated cubical type switch gear panel suitable for indoor installation				
		conforming to IS: 8623 (Part I & II). Panel should be made of sheet steeland				
		thickness not less than 2mm and structural steel having light section. The				
		panel shall be completely dust tight and vermin proof and shall be painted with				
		anti corrosive and anti condensation type two coats of primer and two coats				
		of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt				
		grade of required size. The panel should have provision of entry of cable at				
		the bottom and also provision of out going feeders from the bottom of the panel.				
		The panel shall be incorporated with double busbar system. The bus bar shall				
		be of high quality copper of uniform cross section. The panel shall consist of				
		the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector				
		switch etc.) connected as per drawing and shall be flush mounted on the front				
		of the panel.				
		of the puner.				
			Set	1		
		Incommer:				
	a)	160 A ,4P, MCCB, 25 KA - 1 No.				
	b)	Digital Ammeter - 1 No.				
	c)	Digital Voltmeter - 1 No.				
	d)	CT 160/5 -1 Sets.				
	e)	Switch Fuse Unit - 3 Nos				
	f)	Selector Switch - 2 Nos				
	g)	LED Indicating Lamp 1 Set				
	h)	Bus-Bars: 320 A TPN electrolytic Copper Bus Bar of uniform cross-				
		section (40mmx5mm) – 1 set				
	.,	Outgoing:				
	i)	63A 4P MCCB 25 KA – 2 Nos. 40 A 4P MCCB 25 KA – 2 Nos.				
	j)	40 A 4P MCCB 23 KA – 2 Nos. 40 A 4P MCB – 1 No.				
	k) 1)	32 A 4P MCB – 1 No.				
	m)	32 A DP MCB – 4 Nos.				
	n)	25A DP MCB - 8 Nos.				
2.1	11)	Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage		+		
21.		grade	Sq.M	2		
22.		Supply, Fitting Fixing of Shock Treatment Chart	Each	2		
		Total Non-Schedule (D)	Lacii			
		GRAND TOTAL [SCHEDULE ITEMS (A)+NON-SCHEDULE(B)]		1	Rs.	

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14 **SPAWN MAKING SECTION** SI APWD SL Description Units Otv Rate Amount No. NO. **SCHEDULE** ITEMS PART - 2 Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable 1 2.1 Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete 2.1.1 Short point up to 3.00 metre. length. Each 2.1.2 Medium point up to 6.00 metre. Length. 19 2.1.3 Long point up to 10.00 metre. Length. Each 12 2 24 Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq.mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) 2.4.1 Extra long point up to 15.00 metre. length. Each 2.4.2 Extra long point up to 20.00 metre. Length. Each Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core 2.10 unsheathed industrial (Multistrand) cable FR conforming to IS- 694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and Each CIRCUIT WIRING Wiring for drawing sub-main line with P.V.C. insulated single core 4. 2.7 unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid 2.7.1 With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. RM 70 With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 2.7.3 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. RM

Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
5.	2.9		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
		2.9.3	With 4 x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	200		
		2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	200		
	PART	Γ-10	FITTINGS AND ACCESSORIES (ALL PRODUCTS SHOULD FENVIRONMENT FRIENDLY)				AND
6.	11.12		Supplying and fixing of polished Brass Bracket of 18 S.W.G, 25 cm long cast back plate and brass lamp holder complete including connection as approved by the Deptt.)as required Without Lamp. [BK]		1		
	PART	T- 14	SWITCH GEAR & PROTECTION INDUSTRIAL SOCKETS, DB WITHOUT MCB & MCCB, MCI ETC. (C&S, Havells, INDOASIAN, HPL OR EQUIVALENT as approved by	B, RCC			HANGE OVER
7.	14.1	14.1.1	Supplying fitting and fixing industrial Plug & Socket in surface mounting SPN sheet steel powder painted MCB DB incorporated with MCB DIN rail, neutral link Earth bar of the following rating of DP MCB complete with making necessary connection etc. as specified and directed by the Deptt. 20A Capacity. (C&S, Havells, INDOASIAN, HPL or equivalent		eptt.)NI	AKE)	
		1	as approved by the Deptt.)make)	Each	2		
	PART	Γ-15	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY MCB IN-comer SPN DB				REAK, C&S,
8.	15.8	15.8.1	MCB IN-comer TPN (Horizontal DB) Supplying with fitting and fixing sheet steel, phosphatised, powderpainted dust & vermin proof Double door IP-43 double door surface mounting TPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt. ABB, Schneider MG, legrand, Hager make)				
		15.8.1.1	4 way TPN (4+12) double door	Each	1		
	PART	- 16	MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRAN (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL (BY THE DEPTT.) MCB (Conform to IS / IEC 60898-1:200/ MCCB (Conform to IS/IEC 60947- R	OR EQU	JIVALI	ENT MAKE	AS PPROVED
9.	16.1	16.1.2	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt. C Series (Schneider MG, legrand, Hager make)				
		16.1.2.1	6 to 32A	Each	12		
10.	16.3	16.3.2	Supplying with fitting and fixing DP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt. C Series				
		16.6.2.2	(ABB, Schneider MG, legrand, Hager make) 40A	F 1		Ι	<u> </u>
	PART		EARTHING	Each	1		
11.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt.		2		
12.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pitto provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		

Sl No.	No. APWD SL NO.		Description	Units	Qty	Rate	Amount
13.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		20		
	PART	- 27	CEILING FAN, EXHAUST FAN AND AIR CURTAIN	•			
14.	27.2		Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.) as required complete and as directed by the Department.				
		27.2.1	Domestic	_			1
		27.2.1.12	1 \ / 1	Each	1		
		APPROV	ED BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDM	AARI, (GUWAF	IATI-3 ON	DATED 09-09-
15. 16.	019	10 a) 10	Supplying, installation, testing and Commission of the following indoor Decorative Recess mounted LED down lighter luminaries of model no LESP01R009XC / LESP01R009XN /LESP01R009XW / L00957R000 / L00940R000 / L00930R000 /LD90-111 - XXX-65-XX complete with all accessories such as ballast, starter etc. In the false ceiling type Armstrong /Gypsum or similar ceiling mounting with necessary support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required and as directed by the department (Jaquar / LT / Wipro make). [CL] Supplying, fitting fixing of LED Batten Tubes high quality aluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department. B118601000 [FL] Supplying, fitting fixing of LED Batten Tubes high quality aluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC	Each	8		
		1)	insulated round copper conductor as required and as directed by the department.	E 1	21		T
10		b) 6	BN021C LED 20 PSU CW GR S2 [TL]	Each	21		1
18.		0	Supplying fitting & fixing of LED Bulb non-dimmable in the existing batten / angle holder as required and as directed by the department (Jaquar or eqvt. make).				
		C)	Prima Series Bulb 9W	Each	1		
			Total of Schedule Items(A)				
19.			Less 5% VAT added in SOR				
20			Total of Schedule Items less 5% VAT (B)				
20.			Add 7% GST				
			Total of Schedule Items (C)				1

SI APWD SL NO.		D SL	Description	Units	Qty	Rate	Amount
	В.		NON-SCHEDULE ITEMS	Į	<u> </u>	l I	
21.			MAIN LT PANEL-[SPAWN MAKING SECTION BUILDING]				
Analys			Supplying and installation of metal enclosed wall/floor mounted front				
			operated cubical type switch gear panel suitable for indoor installation				
			conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel				
			and thickness not less than 2mm and structural steel having light section. The				
			panel shall be completely dust tight and vermin proof and shall be painted with				
			anti corrosive and anti condensation type two coats of primer and two coats				
			of paint. All wiring shall be PVC insulated and PVC sheathed of 1100 volt				
			grade of required size. The panel should have provision of entry of cable at				
			the bottom and also provision of out going feeders from the bottom of the panel.				
			The panel shall be incorporated with double busbar system. The bus bar shall				
			beof high quality copper of uniform cross section. The panel shall consist of				
			the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector				
			switch etc.) connected as per drawing and shall be flush mounted on the front				
			of the panel.				
				g .			
	I I		Incommer:	Set	1		
		a)	100 A ,4P, MCCB, 25 KA - 1 No.				
		b)	Digital Ammeter - 1 No.				
		c)	Digital Voltmeter - 1 No.				
		d)	CT 100/5 -1 Sets.				
		e)	Switch Fuse Unit - 3 Nos				
		f)	Selector Switch - 2 Nos				
		g)	LED Indicating Lamp 1 Set				
		h)	Bus-Bars: 220 A TPN electrolytic Copper Bus Bar of uniform cross-				
		/	section (25mmx4mm) – 1 set				
			Outgoing:				
		i)	40 A 4P MCCB 25 KA – 1 No.				
		j)	40 A 4P MCB – 1 No.				
k)		k)	32 A 4P MCB – 12 Nos.				
		1)	25A DP MCB -3 Nos.				
22.			Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2		
23.			Supply, Fitting Fixing of Shock Treatment Chart	Each	2		
			Total of Non-Schedule Item (B)			1	
			GRAND TOTAL [SCHEDULE ITEMS (C)+NON-SCHEDULE(D)]			Rs.	

Estimated cost of INTERNAL ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14

			VALUE ADDITION AREA									
Sl APWD SL NO. A.		D SL	Description	Units	Qty	Rate	Amount					
			SCHEDULE ITEMS				·					
	PART	· - 2	Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / by the Deptt.) cable	Anchor o	r Equiva	ilent Make as	approved					
1 2.1			Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or									
		2.1.1	equivalent make as approved by the Deptt.) GI/ MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete Short point up to 3.00 metre. length.		8							
		2.1.1	Medium point up to 6.00 metre. Length.	Each	11							
		2.1.3	Long point up to 10.00 metre. Length.	Each	9							
2	2.4		Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), Gl/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.)									
		2.4.1	Extra long point up to 15.00 metre. length.	Each	3							
3	2.10	2.4.2	Extra long point up to 20.00 metre. Length. Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS- 694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rd pin of the socket as required on the switch board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and		1							
4.	2.7		CIRCUIT WIRING Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed	l								
- r .	2.7		industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/ recessed 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit wiring system.									
		2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	90	· <u> </u>						
		2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	70							

		000	ATIVE SOCIETY		0	IENDER	
Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
5.	2.9		Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigidPVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.				
		2.9.3	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre.	80		
		2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40				
	PART	-15	mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKE) Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPROVED BY				EAK, C&S,
6.	15.8	15.8.1	MCB IN-comer TPN (Horizontal DB) Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof Double door IP-43 double door surface mounting TPN MCB DB incorporated with bas-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt. ABB, Schneider MG, legrand, Hager make)				
		15.8.1.1	4 way TPN (4+12) double door	Each	1		
			8 way TPN (4+24) Double Door	Each		ED 351	
7.	16.1	- 16	MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRAM (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL (BY THE DEPTT.) MCB (Conform to IS/IEC 60898-1:200/ MCCB (Conform to IS/IEC 60947- R Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz	OR EQ	UIVALI	ENT MAKE	AS PPROVED
7.	10.1		MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		1		
		16.1.2	C Series (Schneider MG, legrand, Hager make)				
		16.1.2.1	6 to 32A	Each	12		
8.	16.6	16.1.2.2	40A Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt. C Series (ABB, Schneider MG, legrand, Hager make)	Each	0		
		16.6.2.2	40A	Each	1		
9.	22.7	-22	EARTHING Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt.		2		
10.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pitto provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		
11.	22.20	22	Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		20		
	PART	-32	U. G. CABLE AND CABLE WORKS	ı			
12.	32.11		Supply and laying of following size Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, unarmoured/Armour (Aluminium for singlecore up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steelstrip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 laid in air or through existing cable trench/ duct/cable tray/ HDPE pipe including fitting required size of lugs at the both end of the cable by using crimping tool and making good damageddone as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make). Core - 3.5A2XFY 25 Sq.mm 3 and 1/2 core armoured cable		70		
-					70		
		32.11.4.5	95 Sq.mm 3 and 1/2 core armoured cable	Metre	30		<u> </u>

) IA	гоор	COOPER	ATIVE SOCIETY		CIVIL	TENDER	
Sl No.	APWI	D SL	Description	Units	Qty	Rate	Amount
TEN	IS API	PROVED	BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDMA	RI, GU	WAHAT	TI-3 ON DAT	ED 09-09-201
13.		10	Supplying, fitting fixing of LED Batten Tubes high quality aluminium				
			extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC				
			insulated round copper conductor as required and as directed by				
			the department.			T	T
		b)	BN021C LED 20 PSU CW GR S2 [TL]	Each	28		
٠- ١			Total of Schedule Items (A)				
25.			Less 5% VAT added in SOR				
26.	ı		Total of Schedule Items less 5% VAT (B) Add 7% GST				
20.			Total of Schedule Items (C)				
	В.		NON-SCHEDULE ITEMS				
27.	ъ.		MAIN LT PANEL-[VALUE ADDITION BUILDING]			1	
	\ malriais		Supplying and installation of metal enclosed wall/floor mounted front				
F	Analysis		11 2 6				
			operated cubical type switch gear panel suitable for indoor installation				
			conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel				
			and thickness not less than 2mm and structural steel having light section.				
			The panel shall be completely dust tight and vermin proof and shall be painted				
			with anti corrosive and anti condensation type two coats of primer and two				
			coats of paint. All wiring shall be PVC insulated and PVC sheathed of 1100				
			volt grade of required size. The panel should have provision of entry of cable				
			at the bottom and also provision of out going feeders from the bottom of the				
			panel. The panel shall be incorporated with double busbar system. The bus				
			bar shall beof high quality copper of uniform cross section. The panel shall				
			consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps,				
			selector switch etc.) connected as per drawing and shall be flush mounted on				
			the front of the panel.				
				Set	1		
	1		Incommer:	Set	1		
		9)	250 A ,4P, MCCB, 36 KA - 1 No.				
		a) b)	Digital Ammeter - 1 No.				
		c)	Digital Voltmeter - 1 No.				
		d)	CT 250/5 -1 Sets.				
		e)	Switch Fuse Unit - 3 Nos				
		f)	Selector Switch - 2 Nos				
		g)	LED Indicating Lamp 1 Set				
		h)	Bus-Bars: 480 A TPN electrolytic Copper Bus Bar of uniform cross-				
		11)	section (30mmx10mm) – 1 set				
			Outgoing:				
		i)	125A 4P MCCB 25 KA – 1 No.				
	+	j)	63A 4P MCCB 25 KA – 2 Nos.		<u> </u>		
		k)	40 A 4P MCCB 25 KA – 2 Nos.		 		
		1)	40 A 4P MCB – 3 Nos.				
		m)	32 A 4P MCB – 2 Nos.				
		n)	25A DP MCB -3 Nos.				
28.		,	Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage				
.0.			grade	Sq.M	2		
29.	+		Supply, Fitting Fixing of Shock Treatment Chart	Each	2		
			Total of Non-Schedule Items (D)			1	
	+		GRAND TOTAL [SCHEDULE ITEMS (C)+NON-SCHEDULE(D)]	1		Rs.	
			GRAID TOTAL [SCHEDULE TIEMS (C)+NON-SCHEDULE(D)]			KS.	<u> </u>

Estimated cost of ELECTRICAL WORKS for PROPOSED OYESTER MUSHROOM CLUSTER AT RESUBELPARA BLOCK, MENDIPATHAR, NORTH GARO HILLS Dist., Meghalaya based on Assam PWD Schedule of Rates for Electrical Works 2013-14

			EXTERNAL ELECTRICAL WORKS		·		
Sl No.	A.		Description	Units	Qty	Rate	Amount
A. PART-22			SCHEDULE ITEMS				
		22	EARTHING		T		
1.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt.		6		
2.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Station pit	Each	0		
			to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	6		
3.	22.10		Supply, installation & testing of Copper Plate earth station with 600 mmx600 mmx3 mm copper earth plate with necessary 40 mm dia. G.I. medium duty watering pipe with G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement with 300 mmx300 mmx6 mm C.I. hinged cover plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as				
			specified and directed by the deptt .	Set	4		
4.	22.13		Extra for using salt (5 K and Charcoal (96 K in G.I./Copper plate Earth Station pit to provide low impedance ground in location of highsoil resistivity as and when required and specified by the deptt.	Set	4		
5.	22.15		Supplying & laying of 6 SWG G.I. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.		150		
6.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and				
			directed by the deptt.	R.M.	120		
7.	22.24		Supplying & laying of 25X5mm size Copper strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of Brass nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		60		
	PART -	-32	U. G. CABLE AND CABLE WORKS	14.141.	00		
8.	32.1	32.1.2	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Niccol Havells/RPG/CCI/Polycab/Gloster/Finolex make). 3 Core A2XWY A2XFY				
			6.00 Sq.mm 3 Core armoured U.G. cable	Metre	60		
		32.1.3	3 & 1/2 Core A2XFY 70 00 Sq. mm 3 & 1/2 Core armoured U.G. cable	Motes	40		
			70.00 Sq. mm.3 & 1/2 Core armoured U.G. cable 120.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre Metre	40		
			300.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	160		
			4 Core A2XWY A2XFY				
		32.1.4.4	16.00 sq mm 4 Core armoured UG cable	Metre	130		

Sl No.	APWI	SL NO.	Description	Units	Qty	Rate	Amount
9.	32.5		Supply and laying of following size Solid Aluminium conductor up to 10sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip), extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988, LT armoured U.G. cable laid in pucca flooring, roadcrossing, drain crossing as per site requirement and partially in air to connection as approved by the Depts. the control switch, through medium duty G.I. pipe (Tata/ Nezone make or equivalent as approved by the Deptt) bend and socket including excavation and refilling the trench and making good damage done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make)				
			Core - 3 A2XWY A2XFY	36.	٥		
			4.00 Sq.mm 3 Core U.G. cable in 25mm dia medium duty G.I. pipe	Metre	0		
	32.5.2 32.5.2.1 32.5.2.2 32.5.3.4 32.5.3.6 32.5.4.14 32.05.04 32.5.4.4 32.18 PART- 34	6.00 Sq.mm 3 Core U.G. cable in 32mm dia medium duty G.I. pipe Core - 3 & 1/2 A2XWY A2XFY	Metre	20			
	32.5.3.4 32.5.3.6 32.5.4.14 32.05.04		70.00 Sq.mm 3&1/2 Core U.G. cable in 50mm dia medium duty hot dip				
			galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	5		
			120.00 Sq.mm 3&1/2 Core U.G. cable in 65mm dia medium duty hot				
			dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	5		
			300.00 Sq.mm 4 Core U.G. cable in 100mm dia medium duty hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	30		
		32.05.04	Core - 4 A2XWY A2XFY	IVICUE	30		<u> </u>
	32.5.4.4		16.00 Sq.mm 4 Core U.G. cable in 40mm dia medium duty hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	Metre	10		
10.	32.18		Supplying including installation of cast iron cable marker as specified and directed by the deptt.	Each	20		
	PART-	34	CABLE KITS Supply including fitting and fixing of 1.1 KV PVC/XLPE cable		•		
		34.28.4	INDOOR/OUTDOOR end termination Kits (Raychem RPG make) HEAT SHRINK TYPE including all accessories for the following sizes including testing and commissioning as specified and directed by the Deptt. 185-300 Sq.mm., 3/3.5/4 Core cable.		2.00		
			OVER HEAD LINE				
12.			Supplying and fitting fixing of H.T. danger plate complete as required and as directed by the department.	Each	4		
			SOLAR POWER	1	1		T
13.	ECBC	0. <i>Z</i>	Supplying including installation, testing and commissioning of Solar Street light as per following specification and as directed by the Department.				
			15 W LED SOLAR STREET LIGHT[Confirming RDSO Specification No: RDSO/PE/SPEC/PS/0093-2008(Rev 0)]				
			SYSTEM SPECIFICATION				
			15 W LED based luminaries/fixture (1500 Lumens –typical).				
			LED Type: White High Powered LED's 5500-6500 K temperature.				
			Automatic Dusk to Dawn Operate ion. Independent standalone Solar Street Lighting System. Powered by a 12V, 80 Wp Solar PV Module confirming RDSO Part-I				
			Approval & IEC: 61215 Certification. (Model: TBP 1280/ 1280M). (make: TATA BP SOLAR or				
			equivalent) 12V, 75Ah @ C10, Tubular Plate Lead Acid Low Maintenance Battery				
			with PP Container (make: TATA BP SOLAR or equivalent).				
			Battery Box made of M.S fabricated with corrosion resistance paint.				
			6m height MS Pole with corrosion resistance paint. Manufacturers Criteria:				
			Must have ISO: 9001 & ISO: 14001 Certification.				
			(As per Annexure A: Clause no: b, Page 10)				
			Must have integrated production capacity of Solar PV Cell & Module. (As per Annexure A: Clause no: d, Page: 10)				
			(As per Annexure A: Clause no: d, Page: 10) SUGGESTED UNIT PRICE				
			Unit Cost Without Installation & Commissioning)	Each			
		-	Installation & Commissioning Charges	Each		-	
14.			Total of Schedule Items (A) Less 5% VAT added in SOR				
17.	Į .		Total of Schedule Items less 5% VAT (B)				
			Add 7% GST				
15.			Total of Schedule Items (C)				

Sl No.	APWD SL NO	L NO. Description		Qty	Rate	Amount
	В.	NON-SCHEDULE ITEMS		l		
16.		MAIN LT FEEDER PANEL				
	Analysis	Supplying and installation of metal enclosed free standing floor readable mounted front operated cubical type switch gear panel suitable for OUTDOOR Type installation conforming to IS: 8623 (Part I & II). Panel should be made of sheet steel and thickness not less than 2mm and structural steel having light section with arrangement for sealing the covers and lockable doors. The panel shall be completely dust tight and vermin proof and shall be painted with anti corrosive and anti condensation type two coats of primer and two coats of paint conforming to Degree of Protection for enclosure shall be IP-55. All wiring shall be PVC insulated and PVC sheathed of 1100 volt grade of required size. The panel should have provision of entry of cable at the bottom and also provision of out going feeders from the bottom of the panel. The panel shall be incorporated with single copper busbarsystem. The bus bar shall be of high quality copper of uniform cross section. The panel shall consist of the following items (viz. Voltmeter, Ammeter, CT, indicating lamps, selector switch etc.) connected as per				
16. Anal		drawing and shall be flush mounted on the front of the panel.	Set	1		
		Incommer:				
	a)	500 A ,4P, MCCB, 36 KA - 2 Nos.				
	b)	500 A, 4P, on-load Changeover switch - 1 No.				
	c)	Digital Ammeter - 2 Nos.				
	d)	Digital Voltmeter - 2 Nos. CT 500/5 -1 Sets.				
	e) f)	CT 500 -1 Sets.				
		Switch Fuse Unit - 6 Nos				
	g) h)	Selector Switch - 4 Nos				
	i)	LED Indicating Lamp 2 Sets				
	j)	Bus-Bars: 960 A TPN electrolytic Copper Bus Bar of uniform cross-section (60mmx10mm) – 1 set				
	k)	Outgoing: 250 A 4P MCCB 36 KA – 1 No.				
	1)	250 A 4P MCCB 36 KA – 1 No. 40 A 4P MCCB 25 KA – 1 No.				
	m)	100 A 4P MCCB 25 KA – 1 No.				
	n)	63 A 4P MCCB 25 KA – 1No.				
	0)	160 A 4P MCCB 25 KA – 1No.				
	p)	40 A 4P MCB – 2 Nos.				
17.	P	Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2		
18.		Supply, Fitting Fixing of Shock Treatment Chart	Each	4		
		Total of Non-Schedule Items (B)				
		GRAND TOTAL [SCHEDULE ITEMS (C)+NON-SCHEDULE(D)]			Rs.	

mat ed OFFICE BUILDING Description SI APWD SL Units Otv Rate Amount NO. SCHEDULE ITEMS Α PART - 2 Wiring in surface/ recessed PVC conduit FR (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) cable Wiring for light/fan/call bell point with 2x1.5 sq. mm. P.V.C. insulated 2.1 single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) GI/MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete Short point up to 3.00 metre. length. Each 2.1.2 Medium point up to 6.00 metre. Length. Each 2.1.3 Long point up to 10.00 metre. Length. Each 2 2.2 Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed 2 mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system including 5 pin 6 Amps flush type plug socket and 6 Amps F/T switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.). GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete, when placed elsewhere. 2.2.1 Short point up to 3.00 metre. length. Each 2.2.2 Medium point up to 6.00 metre. Length. Each 223 Long point up to 10.00 metre. Length. Each 2.4 Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt./ Havells make), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/MW or equivalent make as approved by the Deptt.) Extra long point up to 15.00 metre. length. 2.4.1 Each 242 Extra long point up to 20.00 metre. Length. Each

	00 00	OI LIVAII	VE SOCIETY			TENDER	
Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
4	2.10		Wiring for 5 pin 6 amp plug with 1.5 sq mm P.V.C. insulated singlecore unsheathed industrial (Multistrand) cable FR conforming to IS- 694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) including 5 pin 6 amp socket outlet (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by				
			the Deptt.)make) and 6 amp flush type switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.)make) earthing the 3rdpin of the socket as required on the switch				
			board in surface/ recessed P.V.C. conduit wiring system. When fitted on same board of light and	Each	5		
	l I		CIRCUIT WIRING				
5. 2.7			Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) PVC conduit (Berlia/AKG / Precision/Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including earth continuity in surface/recessed 20 mm. dia. 2mm thick/heavy ISI marked IS: 9537 PART III rigid PVC conduit wiring system.				
		2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm.				
			dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	RM	80		
		2.7.3	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25	KIVI	80		
			mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.				
	D + D =	7.10	TYPETY AGG AND A GODGGODYEG (ALL DOOD VOTE GWOLLD)	RM			TOTAL AND
	PART	1-10	FITTINGS AND ACCESSORIES (ALL PRODUCTS SHOULD ENVIRONMENT FRIENDLY)	BE EN	EKGY	EFFICIEN	T AND
6.	11.12		Supplying and fixing of polished Brass Bracket of 18 S.W.G, 25 cm long cast back plate and brass lamp holder complete including connection as approved by the Deptt.) as required Without Lamp. [BK]				
				Each	2		
7.	11.28		Supplying and fixing of Frosted glass shade of 100 mm dia (Nominal Size as required.	Each	2		
8.	11.32		Supplying and fixing of Call bell (Buzzer) including 5/6 ampcapacity button piano type bell push switch including connection as approved by the Deptt.)as required.	Each	1		
	PART	Γ-15	MCB DB (ABB, SCHNEIDER MG, LEGRAND, HAGER MAKI C&S, Havells, INDOASIAN, HPL OR EQUIVALENT MAKE AS PPRO MCB IN-comer SPN DB				BREAK,
			MCB IN-comer (TPN VERTICAL DB)				
9.	15.22		Supplying with fitting and fixing MCCB income and MCB outgoing sheet steel, phosphatised, powder painted double door IP-43 surface mounting vertical TPN MCB DB incorporated with bas-bar up to 250A, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.				
		15.22.1	ABB, Schneider MG, legrand, Hager make)	Eash	1		
			4 way TPN (4+12) double door 8 way TPN (4+18) double door	Each Each	1		
	PART	- 16	MCB, MCCB, RCCB, RCBO (ABB, SCHNEIDER MG, LEGRA (SCHNEIDER NEO BREAK, C&S, Havells, INDO ASIAN, HPL PPROVED BY THE DEPTT.) MCB (Conform to IS / IEC 60898-1:200/ MCCB (Conform to IS/IEC 61008)	OR EQ	UIVAL	ENT MAE	KE AS
10.	16.1		Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary				
		16.1.2	connection as approved, specified and directed by the deptt. C Series				
		1617	(Schneider MG, legrand, Hager make)				
		16.1.2.1	6 to 32A	Each	12		
1.1	16.16	16.1.2.2	40 A	Each			
11.	16.16	16.16.1	Supplying with fitting and fixing panel mounting open execution 25KA 415V 50Hz 4P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure of the following capacity complete with making necessary connection as approved by the Deptt. as specified and directed by the deptt.				
		16.16.1	25 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens make)				
		16.13.1.4		Each	1		
	PART		EARTHING				

Sl No.	APW NO.	D SL	Description	Units	Qty	Rate	Amount
12.	22.7		Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt.		2		
13.	22.12	22.12	Extra for using salt (5 K and Charcoal (64 K in pipe Earth Stationpit to provide low impedance ground in location of high soil resistivity as and when required and specified by the Deptt.	Each	2		
14.	22.20		Supplying & laying of 25X5mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.		20		
	PART	- 27	CEILING FAN, EXHAUST FAN AND AIR CURTAIN		•		•
15.	27.1	27.1.2	Supplying including fitting fixing of following A.C. Ceiling fan complete with all accessories like down rod, canopy etc. of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department [Without regulator]. Premium model 1200 mm Sweep (ORIENT PSPO make) / Premiummodel				
		27.1.2	1050 / 1200 mm Sweep SS-390 Deco Havells make) [F]	Each	2		
16.	27.2		Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.) as required complete and as directed by the Department.		1		
		27.2.1	Domestic		- 1		T
			Ventil Air DB 300 mm sweep (Havells make) [EF]	Each	2		
ITEN 2019	IS AP	PROVED	BY THE CHIEF ENGINEER P.W.D. (Bldg.), ASSAM, CHANDMA	ARI, GU	WAHAT	II-3 ON D	ATED 09-09-
17.		4	Supplying, installation, testing and Commission of the following indoor Decorative Recess mounted LED down lighter luminaries of model no-LESP01R009XC / LESP01R009XN /LESP01R009XW / L00957R000 / L00940R000 / L00930R000 /LD90-111 - XXX-65-XX complete with all accessories such as ballast, starter etc. In the false ceiling type Armstrong /Gypsum or similar ceiling mounting with necessary support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required and as directed by the department (Jaquar / LT / Wipro make). [CL]		3		
18.		10	Supplying, fitting fixing of LED Batten Tubes high qualityaluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department.				
		a)	B118601000 [FL]	Each	5		
19.		10	Supplying, fitting fixing of LED Batten Tubes high qualityaluminium extruded with decorative end caps connection with 1.5 Sq.mm 1 core PVC insulated round copper conductor as required and as directed by the department.		_ *		
20		b)	BN021C LED 20 PSU CW GR S2 [TL]	Each	5		
20.		6	Supplying fitting & fixing of LED Bulb non-dimmable in the existing batten / angle holder as required and as directed by the department (Jaquar or eqvt. make).				
		C)	Prima Series Bulb 9W Total of Schedule Items (A)	Each	2		
29.			Less 5% VAT added in SOR				
			Total of Schedule Items less 5% VAT (B)				
30.			Add 7% GST				
	_		Total of Schedule Items (C)				
	В	•	NON-SCHEDULE ITEMS	1	Т		
21			Supply, Installation antistatic rubber mat suitable for 1.1 KV Voltage grade	Sq.M	2		
31.					2		
31.			Supply, Fitting Fixing of Shock Treatment Chart Total of Non-Schedule Items inclusive of GST (D)	Each	2		

ANNEXURE – X COMPREHENSIVE PRICE BID

DESCRIPTION	BASIC	SGST	CGST	IGST	TOTAL PRICE
	AMOUNT				(INCL. TAXES)
Construction of work shed building and amenities for the common facility centre of Oyster Mushroom Cluster as per drawing and BoQ given in Annexure I (including all					
electrical works)					
Design, Engineering and					
supervision services					
Electrical works					

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Note:

- a) The Bidder shall quote the Lump sum costs in the above given format.
- b) The lump sum offer shall provide for all superintendence, labour, technical assistance, material, plant, equipment and all other things required for executing and completing all the works as per defined Scope of Work.

SIGNATURE OF THE TENDERER (with seal and address)

ANNEXURE – XI

CHECKLIST OF DOCUMENTS

Documents to be enclosed in Part-I:

S. No.	CHECKLIST	ENCLOSED	REFERNCE IN THE BID
		(YES/ NO)	(PAGE NO.)
1.	A covering letter on your letter head		
	addressed to:		
	The Secretary, M/s. Mendipathar		
	Multipurpose Cooperative Society, P.O.		
	Mendipathar, North Garo Hills, Meghalaya –		
	794110		
2	(as per Annexure-II)		
2.	Tender conditions duly signed in each page		
	and enclosed in token of accepting the Tender		
2	conditions		
3.	Authorization letter from the Company		
4	for the person to sign the tender		
4.	Details of the Tenderer (as per Annexure-III)		
5.	Average annual turnover statement duly		
	certified by a Chartered Accountant (as per		
	Annexure-IV)		
6.	List of Building construction works		
7	executed in last 3 years as per (Annexure-V)		
7.	Declaration for not having black listed		
0	by any Govt. agencies (as per Annexure-VI)		
8.	Declaration for not having tampered the Tender documents downloaded from the		
	websites (Annexure-VII).		
9.	Bid Security Declaration form (as per		
9.	Annexure VIII)		
10.	The copy of certificate of incorporation/		
10.	registration		
11.	Copy of Memorandum and Articles of		
	Association		
12.	Copy of Registered Partnership deed, in case		
	of Partnership Firm		
13.	Copy of Udyog Aadhaar, GST Registration		
	Certificate & PAN Card		
14.	Work Orders issued by the clients		
15.	Performance certificate issued by the client		
16.	The Annual Report / certified copies of		
	Balance Sheet, Profit & Loss statement along		
	with schedules for the last 5 consecutive		
	financial years FY 2016-17, 2017-18, 2018-19,		
	2019-20 and 2020-21		
17.	Latest I.T return		
18.	Notarized translated English version of		
	the documents in a language other than		

English/ Assamese/ Garo/ Khasi, if any	
Liigiisii/ Assaillese/ Galo/ Kilasi, ii aliy	

Documents to be enclosed in Part-II

S. No.	CHECKLIST	ENCLOSED (YES/ NO)
1.	A covering letter on your letter head addressed to:	
	The Secretary, M/s. Mendipathar Multipurpose	
	Cooperative Society, P.O. Mendipathar, North Garo	
	Hills, Meghalaya – 794110	
	(as per Annexure-IX)	
2.	Price Bid as per Annexure- X of the Tender document	

Both 'Part I – Technical bid' cover and 'Part II – Price bid' cover must be placed in a separate sealed cover superscripted as "Tender for the construction of Work shed buildings and amenities for Oyster Mushroom Cluster" and addressed to "Mendipathar Multipurpose Cooperative Society, P.O. Mendipathar, North Garo Hills, Meghalaya – 794110", or addressed to "Indian Institute of Entrepreneurship, Near Games Village, Lalmati, Guwahati – 781029" containing the name and address of the Tenderer.

Note: Tenders submitted in unsealed cover would summarily be rejected.