

## **M/s. COCOBI PRODUCER COMPANY LIMITED**

*(Special Purpose Vehicle (SPV), Negamam Coir Cluster)*

**Regd. Office:** No.13, Dharapuram Road, Anna Nagar,

Negamam, Pollachi Tk, Coimbatore – 642 120

**Mobile:** +91-97517 66687, **E-mail:** gowtham@cocobi.in

### **RE-TENDER DOCUMENT**

**RE-TENDER NOTICE NO.TN/NGM-B-R01/2019-20 dt. 21.02.2020**

### **RE-TENDER FOR THE CONSTRUCTION OF INDUSTRIAL WORK SHED BUILDINGS AND AMENITIES FOR THE COMMON FACILITY CENTER OF NEGAMAM COIR CLUSTER**

Date & Time of Release of Re-Tender	21.02.2020, 10.00 AM
Date & Time of Pre-Bid Meeting	28.02.2020, 11.00 AM
Last Date & Time for Submission of Bid	09.03.2020, 02.00 PM
Date & Time of Opening of Bid (Technical bid only)	09.03.2020, 03.00 PM

*Project Management Agency*

**ITCOT Consultancy and Services Limited**

No.50 A, Greams Road, Chennai – 600 006

**E-mail:** info@itcot.com, **Website:** www.itcot.com

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**RE-TENDER FOR THE CONSTRUCTION OF INDUSTRIAL WORK SHED  
BUILDINGS AND AMENITIES FOR NEGAMAM COIR CLUSTER, COIMBATORE**

<b>1.</b>	<b>PREAMBLE</b>
<p><b>Government of Tamilnadu</b> has formulated the “<b>Scheme for developing Coir Clusters in Tamilnadu</b>” aimed at making Coir based industries more productive and competitive. Under the scheme, three clusters viz. Erode-Tirupur Coir Cluster, Negamam Coir Cluster and Budalur Coir Cluster have been sanctioned vide <i>G.O.Ms.No.75 MSME (D1) Department dated 30.11.2017</i>. The scheme stipulates Department of Industries and Commerce (DIC), Government of Tamilnadu as the Nodal Agency and a Special Purpose Vehicle (SPV) be formed for each cluster to undertake the scheme implementation. M/s.ITCOT Consultancy and Services Limited is the Project Management Agency (PMA) designated to monitor the scheme implementation.</p> <p>The scheme envisages establishment of upgraded production infrastructure, as the Common Facility Center (CFC), for the manufacturing of coir products and stipulates the building construction and machinery procurement for the establishment of CFC should adhere the Tamilnadu Transparency in Tenders Act and Rules. Accordingly, the tender procedures are being undertaken for the construction of CFC building works.</p> <p><b>M/s.Cocobi Producer Company Limited</b>, the Special Purpose Vehicle (SPV) of <b>Negamam Coir Cluster</b>, located in Coimbatore district, having its administrative office at No.13, Dharapuram Road, Anna Nagar, Negamam, Pollachi Tk, Coimbatore – 642 120, propose to establish a Common Facility Centre (CFC) at S.F.No.5/2, Vellapalayam village, Pollachi Taluk, Coimbatore District, Tamilnadu with the financial assistance from Government of Tamilnadu under the scheme.</p> <p>In this context, the company 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 of Negamam Coir Cluster, Coimbatore through transparent bidding process. <b>As limited numbers of bids were received in the Original call, Re-tender is being issued, as decided by the Tender committee.</b> The Re-Tender notification has been published fixing the date of opening of tender as 09.03.2020.</p>	
<b>2.</b>	<b>SCOPE OF WORK</b>
<p>a) The successful tenderer should undertake construction of industrial work shed buildings and amenities at S.F.No.5/2, Vellapalayam village, Pollachi Taluk, Coimbatore District, Tamilnadu as per the drawings and Estimate/Bill of Quantity (BoQ) given in Annexure-I.</p> <p>b) The successful tenderer should complete the construction of industrial work shed buildings and amenities within 120 days from the date of receipt of Work Order. The time line for the cumulative percentage of work to be completed based on the value of work shall be as given below:</p>	

<table><tr><th>Days</th><th>Work completion</th></tr><tr><td>1<sup>st</sup> 30 days</td><td>Completion upto basement level</td></tr><tr><td>2<sup>nd</sup> 30 days</td><td>Completion upto lintel level</td></tr><tr><td>3<sup>rd</sup> 30 days</td><td>Completion upto roof level</td></tr><tr><td>4<sup>th</sup> 30 days</td><td>Full completion of the entire work</td></tr></table>			Days	Work completion	1 <sup>st</sup> 30 days	Completion upto basement level	2 <sup>nd</sup> 30 days	Completion upto lintel level	3 <sup>rd</sup> 30 days	Completion upto roof level	4 <sup>th</sup> 30 days	Full completion of the entire work								
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3(f)	The tenderer should not have been blacklisted for supply of any items or services by any Government departments/agency	The declaration form as per Annexure VI should be enclosed.
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/Tamil, the notarized translated English version of the documents should also be enclosed.		
5.	PURCHASE OF TENDER DOCUMENTS	
a) The tender document shall be downloaded from <b>www.tenders.tn.gov.in</b> or <b>www.itcot.com</b> at free of cost. The tenderer should give a declaration for not having tampered the Tender document downloaded from Internet (as per Annexure VII).		
b) The tender document can be downloaded from 21.02.2020 to 08.03.2020.		
6.	PREBID MEETING	
There will be a pre-bid meeting on 28.02.2020 at 11.00 am in the office of <b>District Industries Centre (DIC), No.2, Raja Street, Town Hall, Coimbatore - 641001</b> during which the prospective tenderers can get clarifications about the tender. The tenderers shall send their queries in writing if any so as to reach SPV at least two days prior to the pre-bid meeting date. The tenderers are advised to check <b>www.tenders.tn.gov.in</b> or <b>www.itcot.com</b> for up-to-date information like change in date / venue etc., of pre-bid meeting as SPV may not be able to identify and communicate with the prospective bidders at this stage. 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 opening of the tender. Such queries may be sent in writing to “M/s.Cocobi Producer Company Limited, No.13, Dharapuram Road, Anna Nagar, Negamam, Pollachi Tk, Coimbatore-642 120” or by e-mail to gowtham@cocobi.in. SPV will upload the clarification on <b>www.tenders.tn.gov.in</b> or <b>www.itcot.com</b> . 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.		

<b>8.</b>	<b>AMENDMENT OF TENDER DOCUMENT</b>
<p>SPV 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 <b>www.tenders.tn.gov.in</b> or <b>www.itcot.com</b> and the same will be binding on all Applicants or Respondents or Tenderers, as the case may be.</p>	
<b>9.</b>	<b>AUTHORISATION OF THE TENDERER</b>
<p>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.</p>	
<b>10.</b>	<b>PRE-VISIT OF SITE</b>
<p>The tenderer, on his/her own responsibility, risk and cost, is advised to visit and examine the site of works at S.F.No.5/2, Vellapalayam village, Pollachi Taluk, Coimbatore District 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).</p>	
<b>11.</b>	<b>SPECIFIC INSTRUCTIONS TO BIDDERS / CONTRACTORS FOR QUOTING OF RATES</b>
<p>(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.</p> <p>(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 recognised and if any such alterations are made the tender will be void.</p> <p>(c) The tenderer / contractor will make his/her/their own arrangements to procure and use ISI Brand Cement and ISI Brand steel required for the work.</p> <p>(d) 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.</p>	

	<p>(e) The tenderer / contractor will produce test certificate obtained from any one of the Govt. institutions for cement and steel brought to site. And only when the test results confirm to the ISI specification they will be allowed to be used in the works.</p> <p>(f) The tenderer / Contractor should strictly follow above instructions without fail.</p>
12.	<b>SUBMISSION OF TENDER IN TWO COVER SYSTEM</b>
	<p>(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.</p> <p>(b) Tenders should be submitted in two parts:</p> <ol style="list-style-type: none"> <li>Part I will cover technical bid and</li> <li>Part II will cover price bid</li> </ol> <p>(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 -X.</p> <p>(d) Tenderers are requested to place Part I and Part II documents in separate sealed covers. Part I cover to be superscripted as <b>“Part I – Technical bid”</b> and Part II cover to be superscripted as <b>“Part II – Price bid”</b> 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 <b>“Re-Tender for the construction of work shed buildings and amenities for Negamam Coir Cluster, Coimbatore”</b> and addressed to <b>“M/s.Cocobi Producer Company Limited, C/o. District Industries Centre (DIC), No.2, Raja Street, Town Hall, Coimbatore - 641001, Tamilnadu”</b> mentioning the name and address of the Tenderer in the outer cover. <b>Tenders shall be submitted in sealed cover and unsealed tenders would summarily be rejected.</b></p> <p>(e) Tenders should be dropped only in the tender box kept at the office of <b>“District Industries Centre (DIC), No.2, Raja Street, Town Hall, Coimbatore - 641001”</b> on or before 02.00 PM on 09.03.2020. Tenders will not be received by hand.</p> <p>(f) Alternatively, the tenders can be submitted through registered post so as to reach the above address on or before 02.00 PM on 09.03.2020. Tenders received after the specified time will not be considered and SPV will not be liable or responsible for any postal delays.</p> <p>(g) A tender once submitted shall not be permitted to be altered or amended.</p>
13.	<b>EARNEST MONEY DEPOSIT</b>
	<p>(a) The Tender should be accompanied by an Earnest Money Deposit (EMD) to the value of Rs.2.00 lakhs (Rupees Two Lakhs only) in the form of Account Payee Demand Draft drawn on any Indian Nationalized/Scheduled Commercial Bank in favour of “Cocobi</p>



	<p>Producer Company Limited – TRA, Hard Interventions”, payable at Coimbatore. The EMD in any other form will not be accepted. The Earnest Money Deposit will be returned to the unsuccessful tenderers.</p> <p>(b) The Earnest Money Deposit will be retained in the case of successful tenderer and it will not earn any interest and will be dealt with, as provided in the terms and conditions of the tender.</p> <p>(c) Any request of the tenderer, under any circumstances claiming exemption from payment of EMD will be rejected and their Part II price offer will not be opened.</p> <p>(d) If the tenderer emerges as the successful bidder and after subsequent issuance of letter of acceptance by the SPV, failure to sign the agreement, to remit the Security Deposit or to execute the contract as per tender conditions, will result in the forfeiture of the EMD amount remitted.</p>
<b>14.</b>	<b>VALIDITY</b>
	<p>The rate quoted in the Tender should be valid for the acceptance by the SPV for a minimum period of 120 days from the date of opening of the Tender. 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.</p>
<b>15.</b>	<b>OPENING AND EVALUATION OF THE TENDER</b>
	<p>(a) The tender box will be closed at 2.00 PM as per the office clock on 09.03.2020 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 at 03.00 PM on the same day 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.</p> <p>(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.</p> <p>(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 03.00 PM on the same day.</p> <p>(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.</p>

(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).	
<b>16.</b>	<b>PRICE OFFER</b>
<p>(a) The Price bid should be kept only in the Part II cover.</p> <p>(b) The price bid should be prepared as per Annexure-IX.</p> <p>(c) The price should be neatly and legibly written both in figures and words.</p> <p>(d) In case of discrepancy between the prices quoted in words and figures lower of the two shall be considered.</p> <p>(e) If a bidder quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.</p> <p>(f) Part-II bid should not contain any commercial conditions. Variation in the commercial terms and conditions of the tender will not be accepted.</p>	
<b>17.</b>	<b>EVALUATION OF THE PRICE</b>
<p>(a) The Tender committee will examine for complete, properly signed and error-free nature of the Price bid (Part II)</p> <p>(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).</p>	
<b>18.</b>	<b>AWARD OF CONTRACT</b>
The Tenderer who has quoted lowest price (L1) will be invited for negotiations. After finalizing the negotiated rate, Letter of Acceptance will be issued, on receipt of building plan approval from competent authority.	
<b>19.</b>	<b>SECURITY DEPOSIT</b>
(a) On receipt of the Letter of Acceptance from SPV, the successful tenderer should remit a Security Deposit (SD) of <b>5%</b> of the value of the contract 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 “Cocobi Producer Company Limited – TRA, Hard Interventions”, payable at Coimbatore, within 10 (Ten) working days from the date of receipt of letter of acceptance. The EMD shall be adjusted with the Security Deposit.	

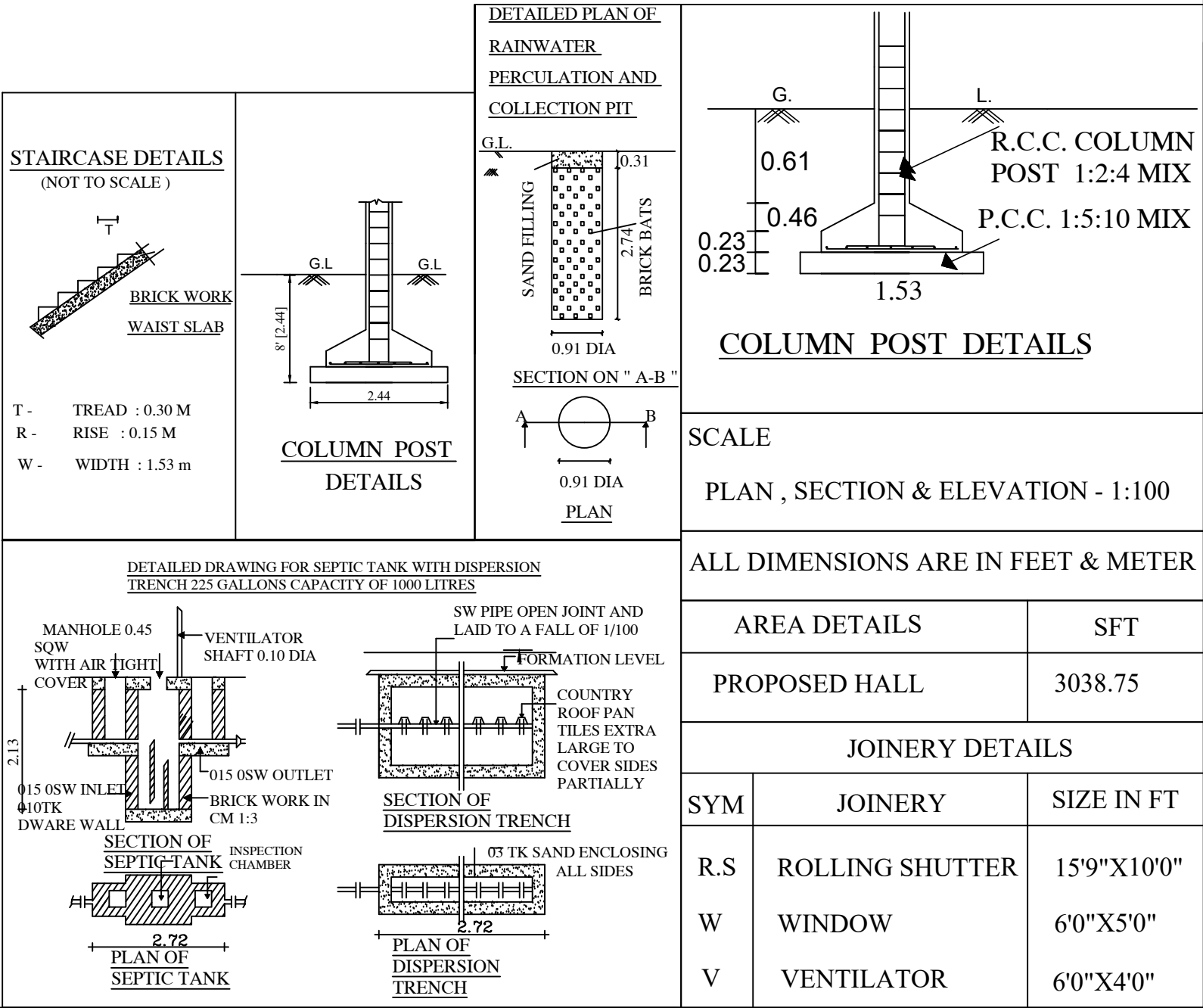
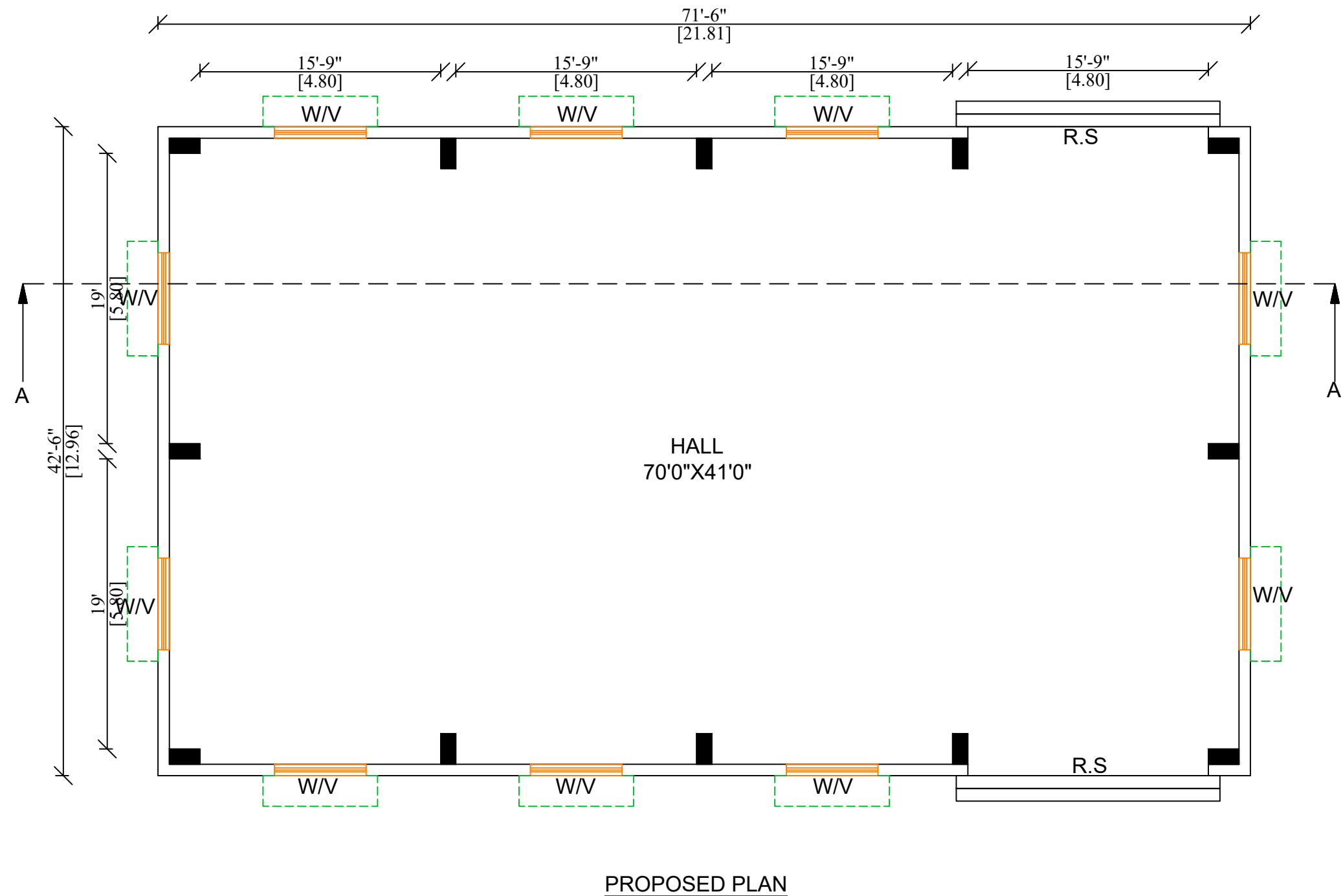
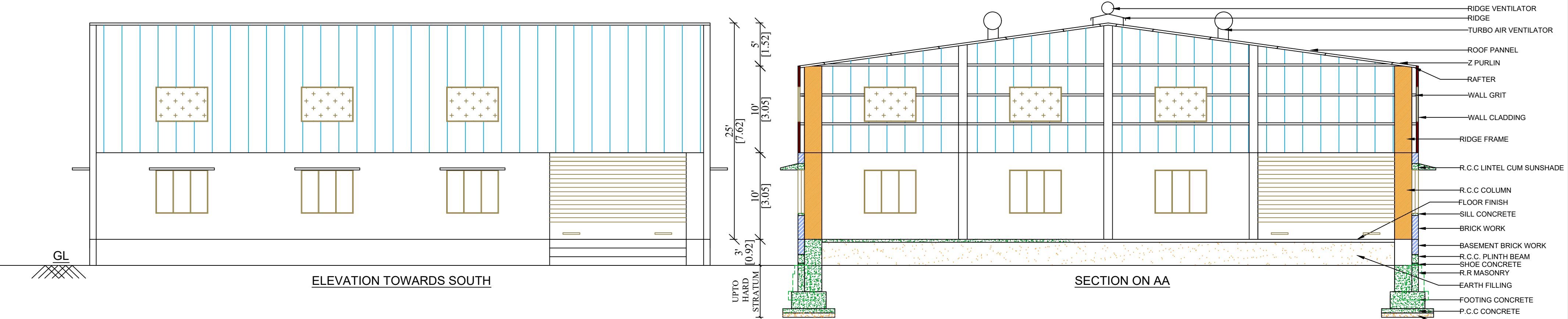
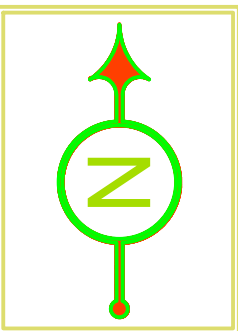
	<p>(b) Any other amount pending with SPV will not be adjusted under any circumstances, against the Security Deposit if so requested.</p> <p>(c) If the Security Deposit amount is not paid within the time specified, the EMD remitted by the tenderer shall be forfeited, besides cancelling the communication of acceptance of the Tender.</p> <p>(d) Security Deposit amount remitted will not earn any interest.</p>
<b>20.</b>	<b>AGREEMENT</b>
	<p>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 EMD/SD amount remitted by the tenderer will be forfeited besides cancelling the Tender.</p>
<b>21.</b>	<b>ISSUE OF WORK ORDER</b>
	<p>After payment of Security Deposit and successful execution of the agreement, Work Order will be released within 10 days by the SPV. The successful tenderer should complete the construction of industrial work shed buildings and amenities within 120 days from the date of receipt of Work Order.</p>
<b>22.</b>	<b>DEFECT IDENTIFICATION AND IT'S RECTIFICATIONS</b>
	<p>(a) Defect Liability period shall be 6 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.</p> <p>(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 safety and architectural concept, all at the cost of contractor.</p> <p>(c) The successful tenderer should submit bank guarantee equivalent to 10% of the total value of contract valid for 6 months towards Defect Liability.</p>
<b>23.</b>	<b>EMPLOYMENT OF TECHNICAL ASSISTANTS</b>
	<p>(d) 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</p>

	<p>during working hours, monitoring all items of works and paying extra attention to such works as may demand special attention.</p> <p>(e) 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).</p>
<p><b>24.</b></p>	<p><b>PAYMENT TERMS</b></p>
	<p>(a) <b>20% of contract value</b> will be paid, as advance, on execution of agreement. The Tenderer should produce Bank guarantee for the equal 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 SPV.</p> <p>(b) <b>20% of the contract value</b> will be paid on completion of basement level works and submission of Stage level completion certificate by a Chartered Engineer, based on the inspection report by Tender Committee.</p> <p>(c) <b>40% of the contract value</b> will be paid on completion of roof level works and submission of Stage level completion certificate by a Chartered Engineer, based on the inspection report by Tender Committee.</p> <p>(d) <b>The balance 20% and SD</b> 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 &amp; valuation certificate and bank guarantee equivalent to 10% of the total value of contract valid for 6 months towards Defect Liability.</p> <p>(e) SPV 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 SPV immediately on demand, without raising any dispute/protest.</p>
<p><b>25.</b></p>	<p><b>PENALTY</b></p>
	<p>(a) Failure to execute the entire contract within 120 days from the date of issue of work order will attract a penalty of 1% per week, on the full value of the contract upto a maximum of 5%. Delays beyond that period will be viewed as violation of the contract terms and will be dealt accordingly.</p> <p>(b) Tender Committee 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 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.</p>

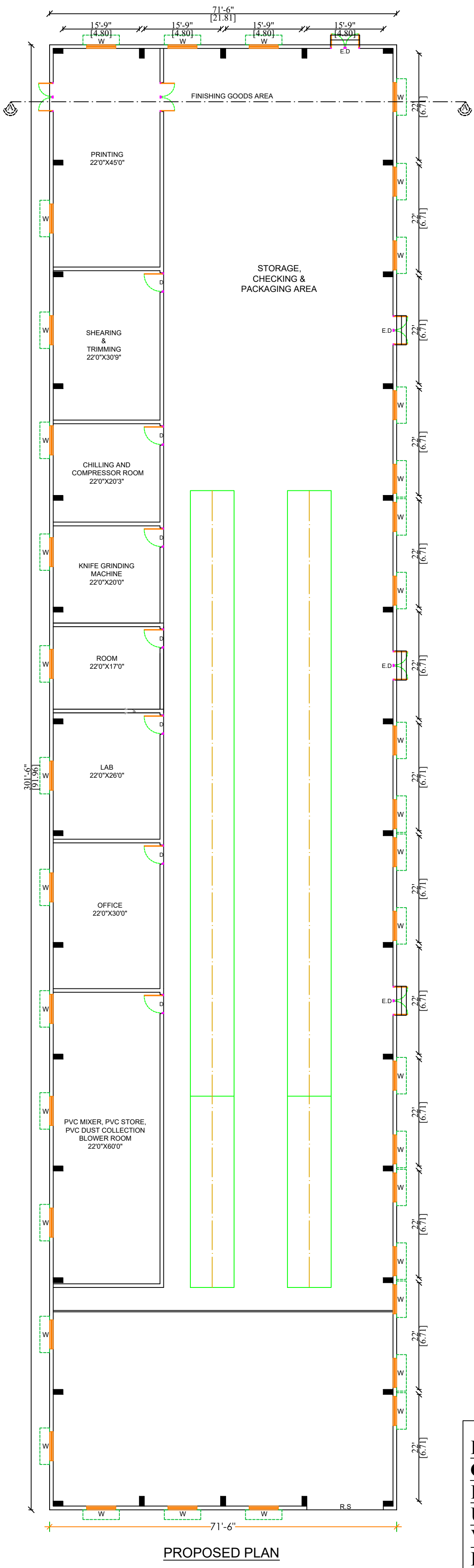
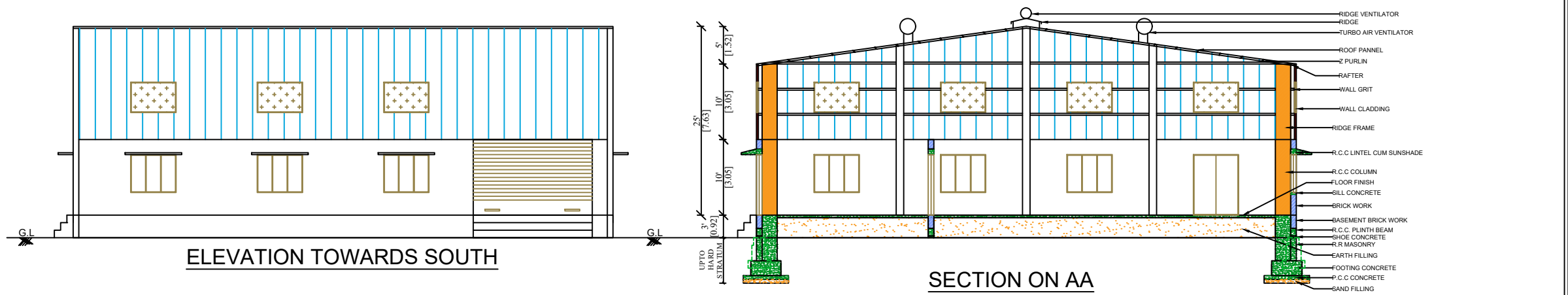
	<p>(c) All the materials used for construction shall be first use, new, high quality material. Old or Used materials will not be accepted and if found, the decision of Committee, either for rework / replace / deduction in payment shall be binding on the contractor.</p> <p>(d) Any delay on the part of SPV should be intimated and sorted out immediately without affecting the progress of works.</p>
<b>26.</b>	<b>TERMINATION OF CONTRACT</b>
	<p>SPV 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.</p>
<b>27.</b>	<b>GENERAL CONDITIONS</b>
	<p>(a) Conditional tender in any form will not be accepted.</p> <p>(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.</p> <p>(c) Tender committee reserves the right to relax or waive or amend any of the tender conditions.</p> <p>(d) The successful tenderer shall not outsource/off load either full or part of the work to any other agency / individual.</p> <p>(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.</p>
<b>28.</b>	<b>ARBITRATION</b>
	<p>(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 SPV / Tenderer to an Arbitrator to be appointed by the Parties hereto by mutual agreement. If no such Arbitrator could be appointed by mutual consent, the matter may then be referred to the General Manager, District Industries Centre, Coimbatore for nominating an Arbitrator, the Arbitration proceedings being governed by the Arbitration and Conciliation (Amendment) Act 2015.</p> <p>(b) The venue of the Arbitration shall be at the District Industries Center premises of Coimbatore district. The decision of the Arbitrator shall be final and binding on both the parties to the Arbitration.</p>

<p>(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 Coimbatore only.</p>	
<p><b>29.</b></p>	<p><b>JURISDICTION OF THE COURT</b></p>
<p>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 Coimbatore only.</p>	
<p>We agree to the above terms and conditions.</p> <p><b>SIGNATURE OF THE TENDERER:</b></p> <p><b>DATE:</b></p> <p><b>NAME IN BLOCK LETTERS:</b></p> <p><b>DESIGNATION:</b></p> <p><b>ADDRESS:</b></p>	

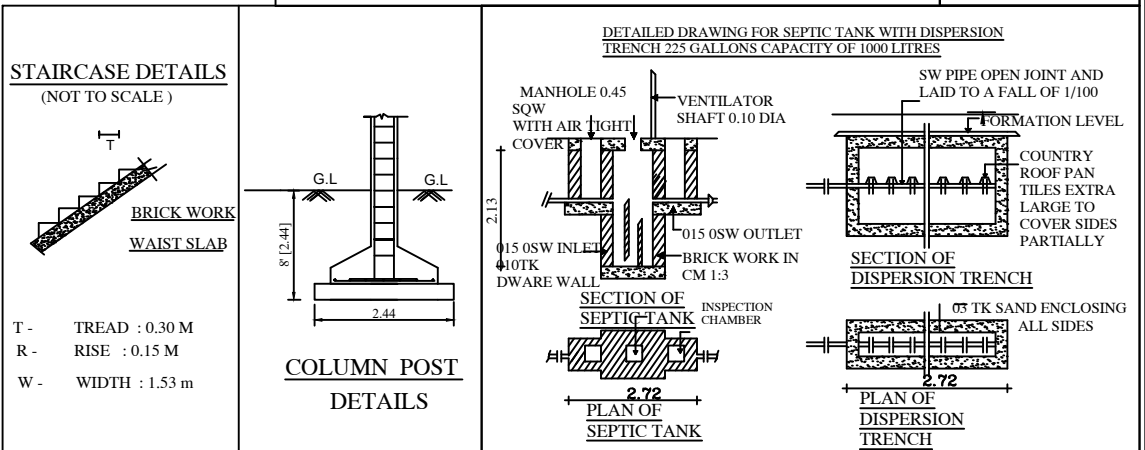
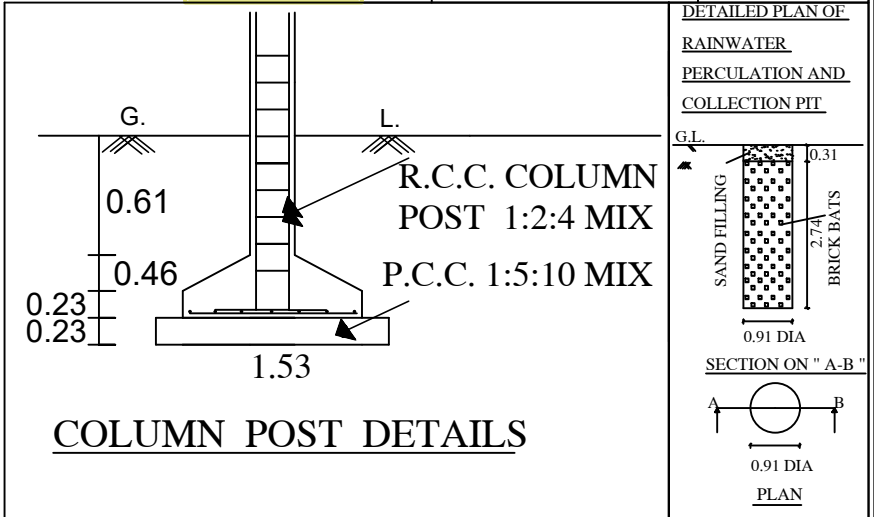
PLAN SHOWING THE PROPOSED CONSTRUCTION OF GALVALUME SHEET ROOF GROUND AND TERRACE FLOOR COTTAGE INDUSTRIES -  
COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM VILLAGE AND PANCHAYAT, POLLACHI TALUK,  
COIMBATORE DISTRICT.







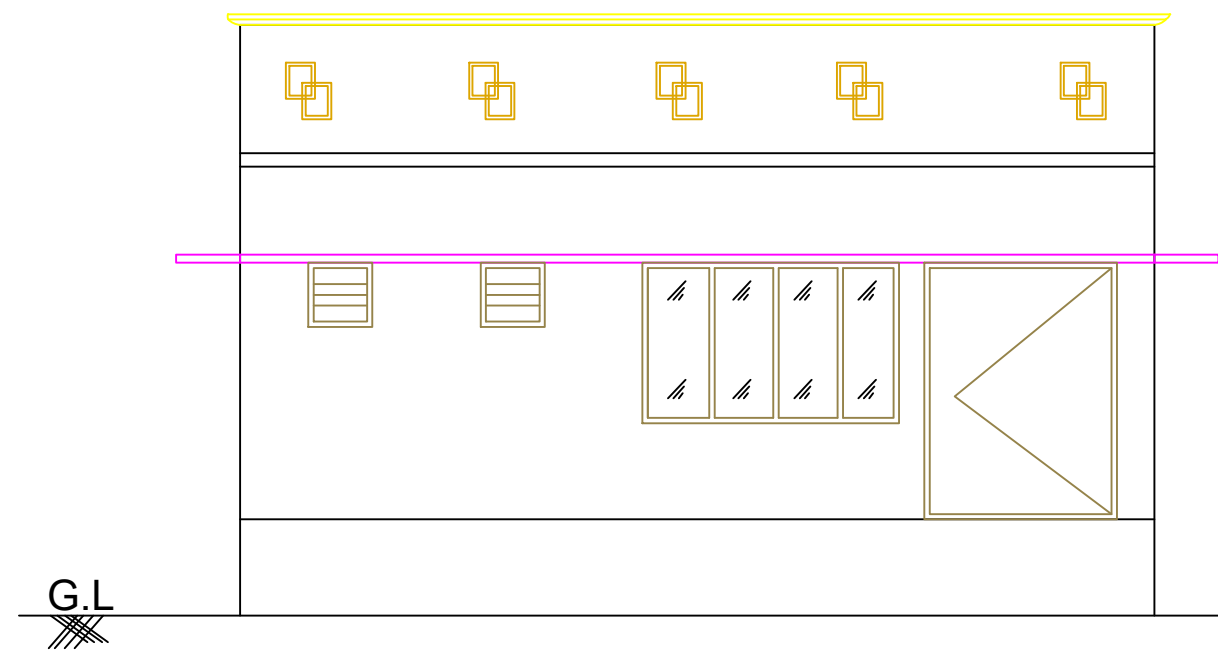
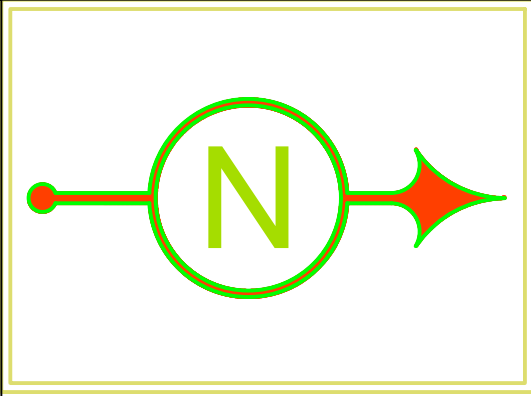
SCALE		
PLAN , SECTION & ELEVATION - 1:100		
ALL DIMENSIONS ARE IN FEET & METER		
AREA DETAILS		SFT
PROPOSED HALL		21557.25
JOINERY DETAILS		
SYM	JOINERY	SIZE IN FT
R.S	ROLLING SHUTTER	15'9"X10'0"
W	WINDOW	6'0"X5'0"
V	VENTILATOR	6'0"X4'0"



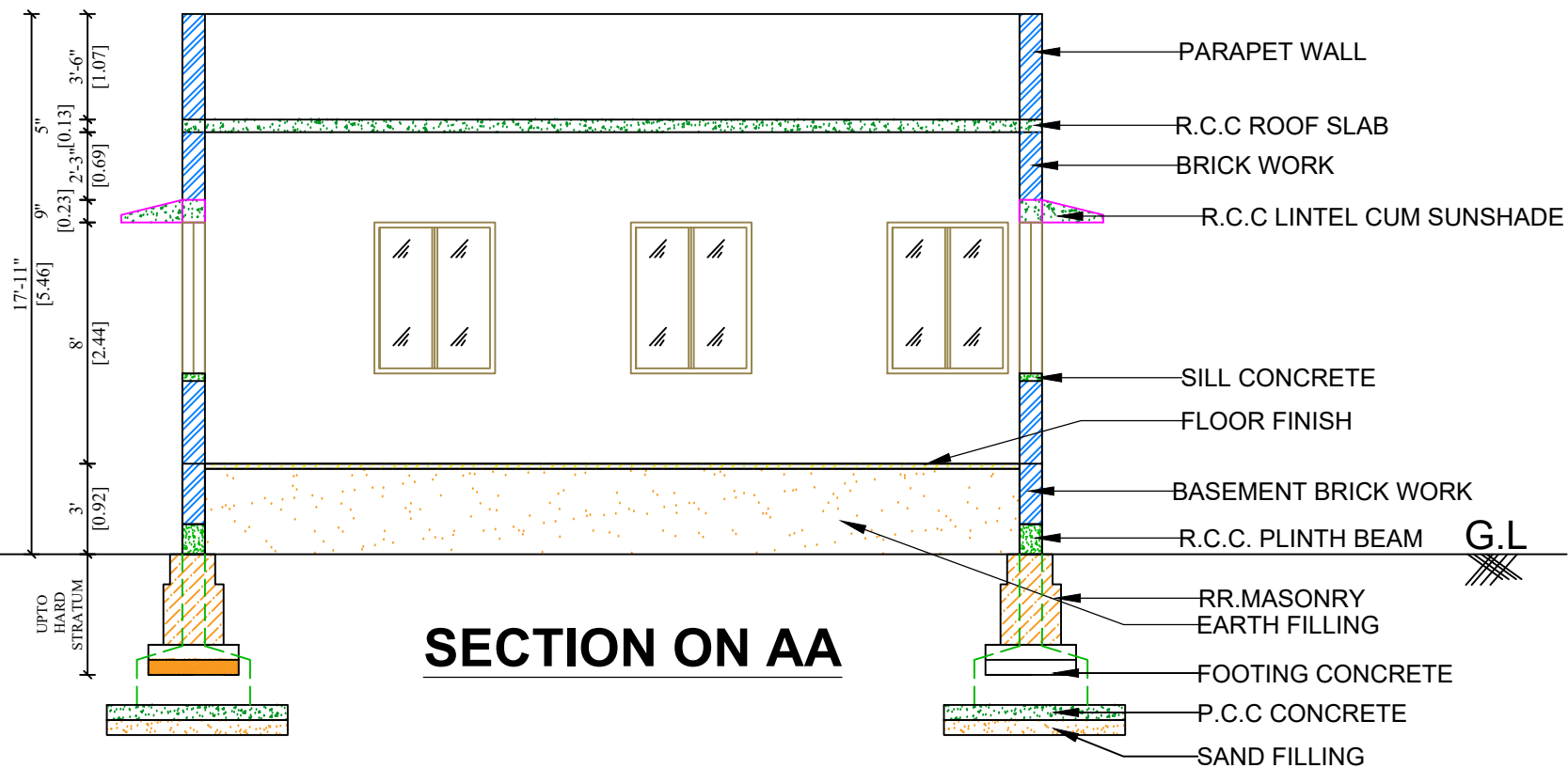
**PLAN SHOWING THE PROPOSED CONSTRUCTION OF GALVALUME SHEET ROOF GROUND AND TERRACE FLOOR COTTAGE INDUSTRIES - COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM VILLAGE AND PANCHAYAT, POLLACHI TALUK, COIMBATORE DISTRICT.**



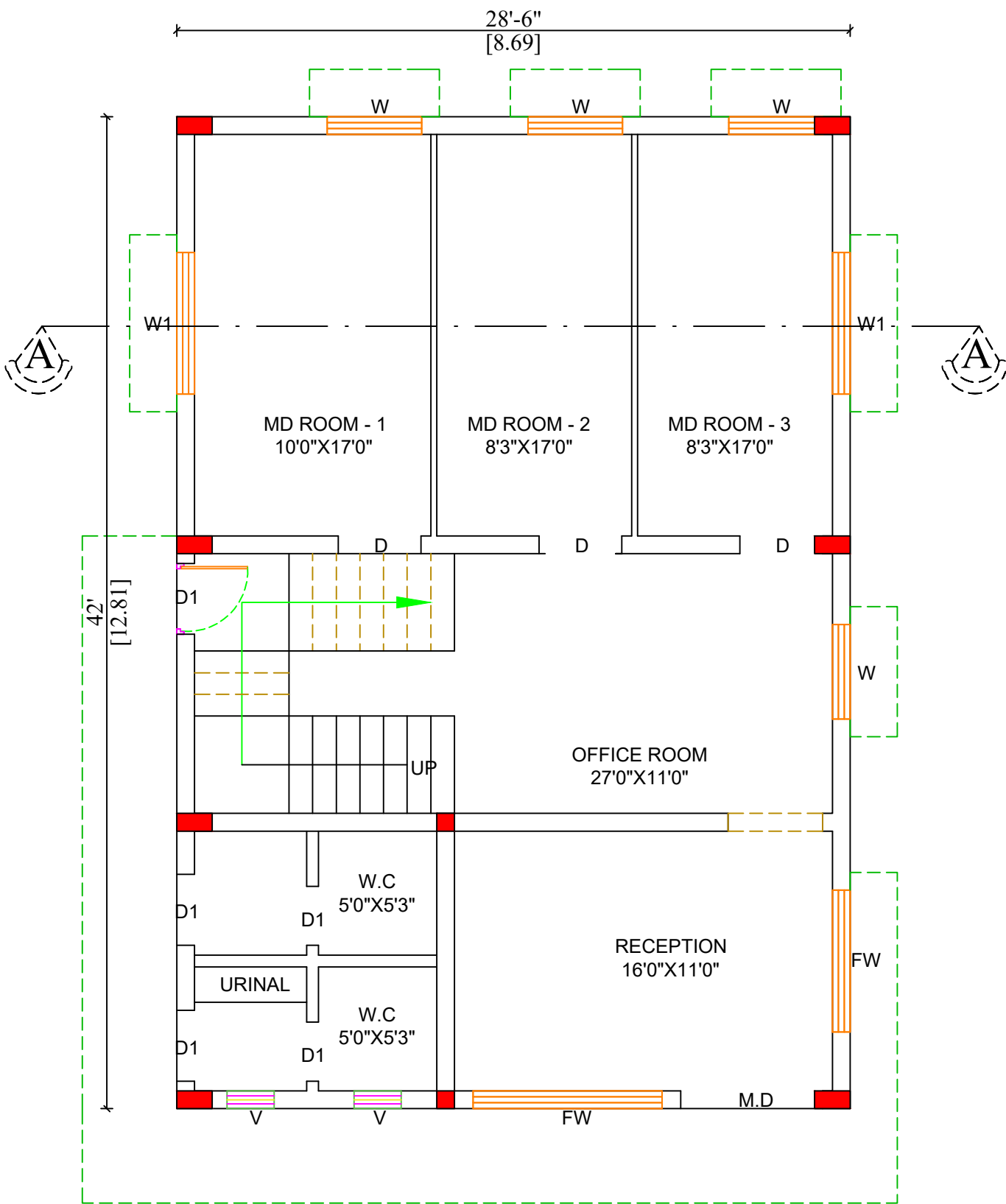
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RCC ROOF GROUND OFFICE  
BLOCK COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM  
VILLAGE AND PANCHAYAT, POLLACHI TALUK, COIMBATORE DISTRICT.



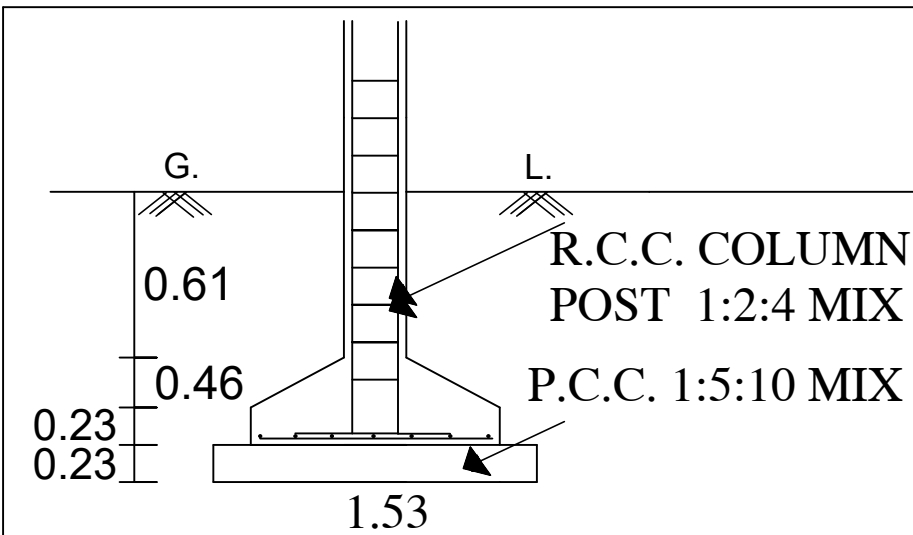
ELEVATION TOWARDS EAST



SECTION ON AA

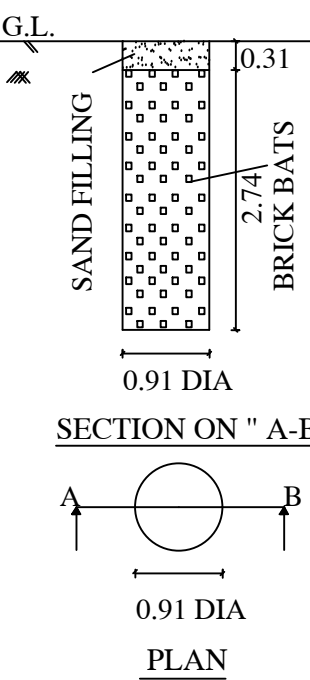


PROPOSED PLAN



COLUMN POST DETAILS

DETAILED PLAN OF  
RAINWATER  
PERCULATION AND  
COLLECTION PIT



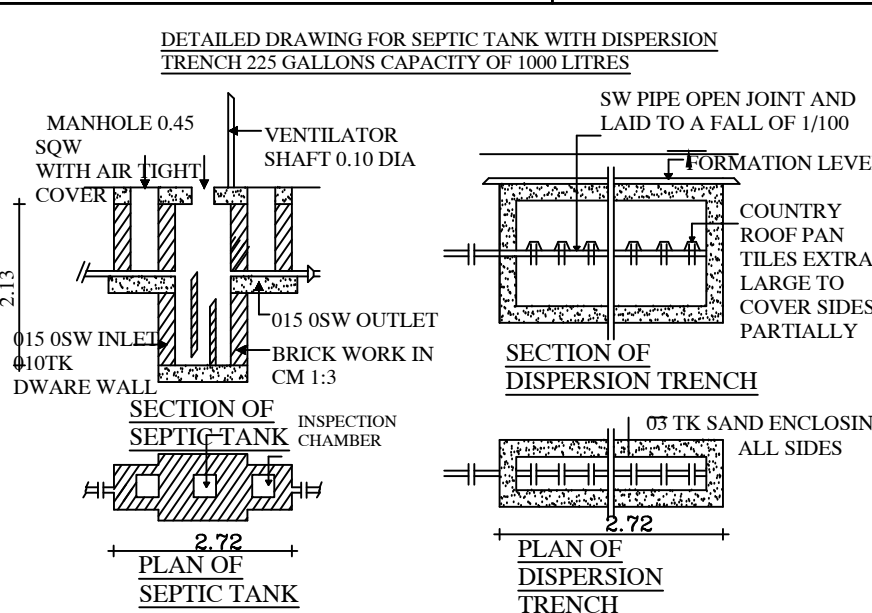
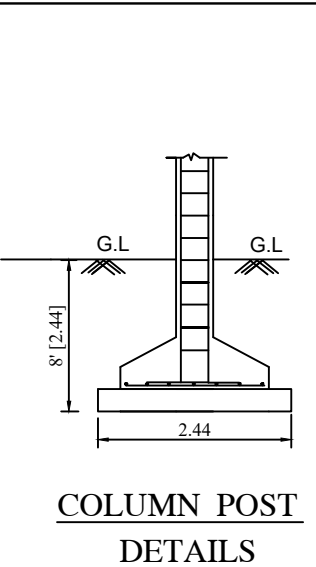
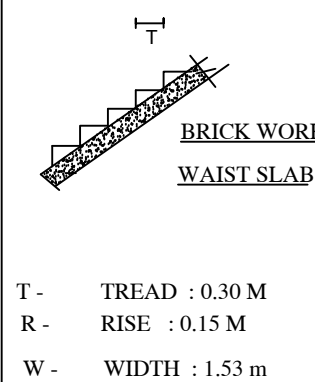
SCALE  
PLAN , SECTION & ELEVATION - 1:100

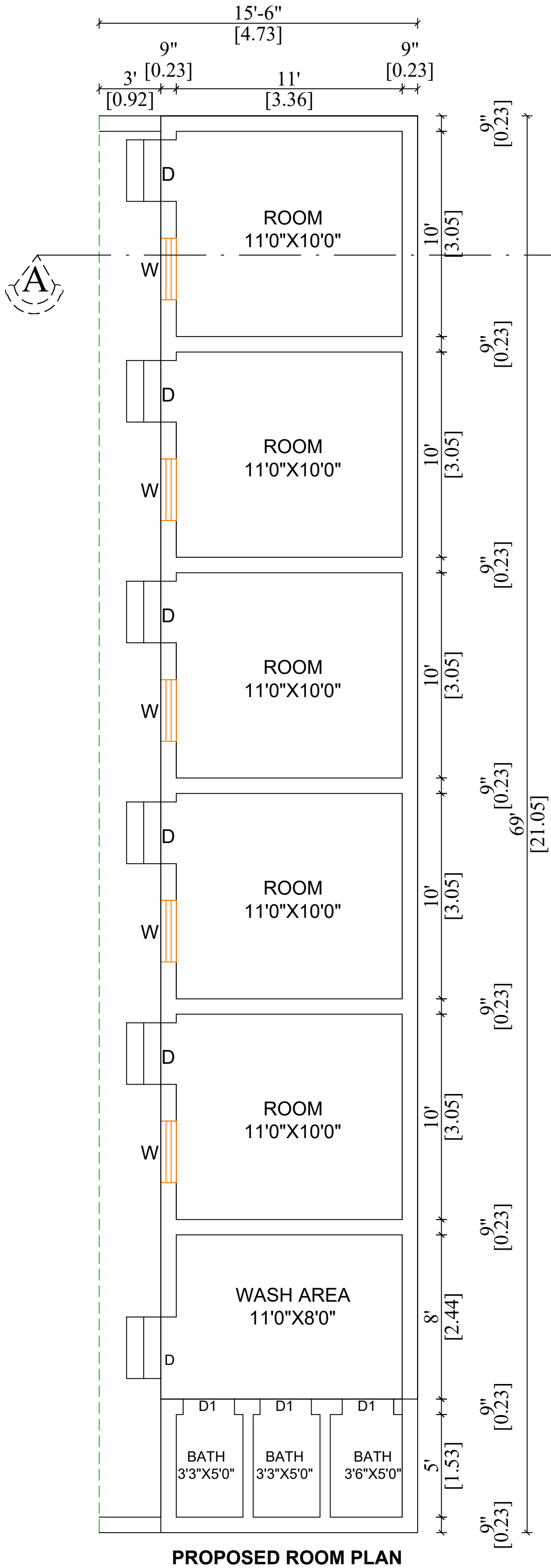
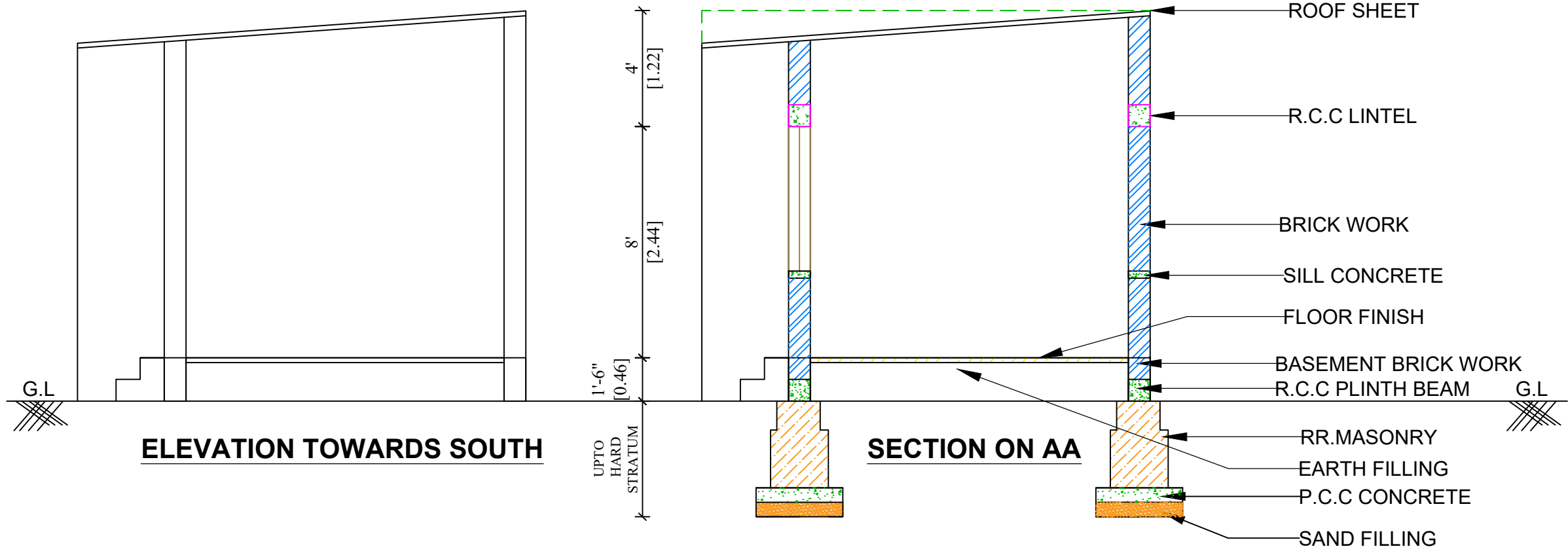
ALL DIMENSIONS ARE IN FEET & METER

AREA DETAILS	SFT
PROPOSED OFFICE HALL	1197.00

JOINERY DETAILS		
SYM	JOINERY	SIZE IN FT
M.D	MAIN DOOR	6'0"X8'0"
D	DOOR	3'6"X8'0"
D1	DOOR	3'0"X8'0"
FW	FRENCH WINDOW	6'0"X5'0"
FW1	FRENCH WINDOW	8'0"X5'0"
W	WINDOW	4'0"X5'0"
W1	WINDOW	6'0"X5'0"
O	OPEN	4'0"X8'0"
V	VENTILATOR	2'0"X2'0"

STAIRCASE DETAILS  
(NOT TO SCALE )





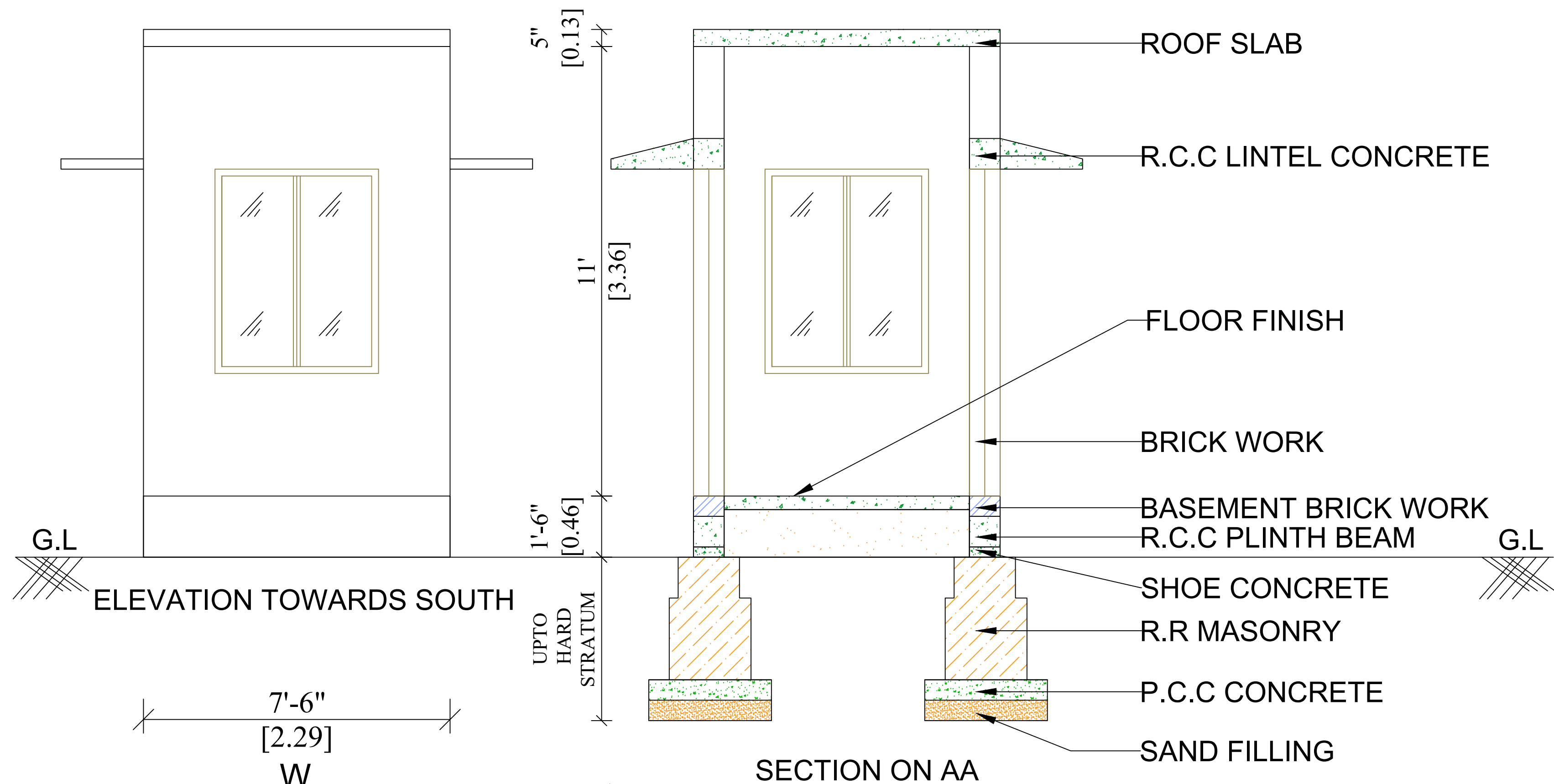
#### SCALE

PLAN , SECTION & ELEVATION - 1:100

ALL DIMENSIONS ARE IN FEET & METER

AREA DETAILS		SFT
PROPOSED ROOMS		1069.66
JOINERY DETAILS		
SYM	JOINERY	SIZE IN FT
D	DOOR	3'0"X8'0"
W	WINDOW	3'0"X5'0"

**PLAN SHOWING THE PROPOSED CONSTRUCTION OF GALVALUME SHEET ROOF GROUND AND TERRACE FLOOR COTTAGE INDUSTRIES - COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM VILLAGE AND PANCHAYAT, POLLACHI TALUK, COIMBATORE DISTRICT.**

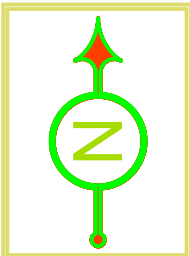
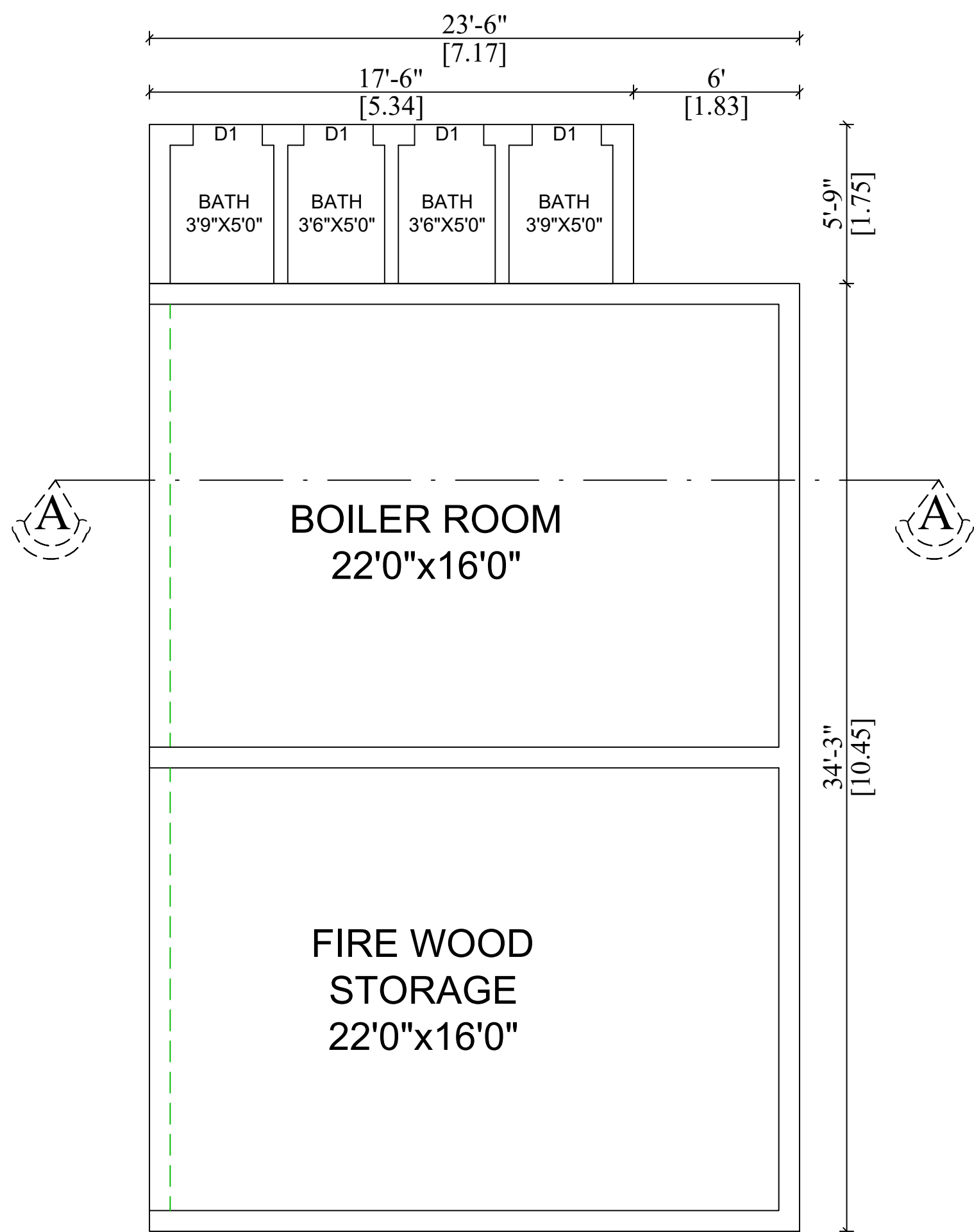
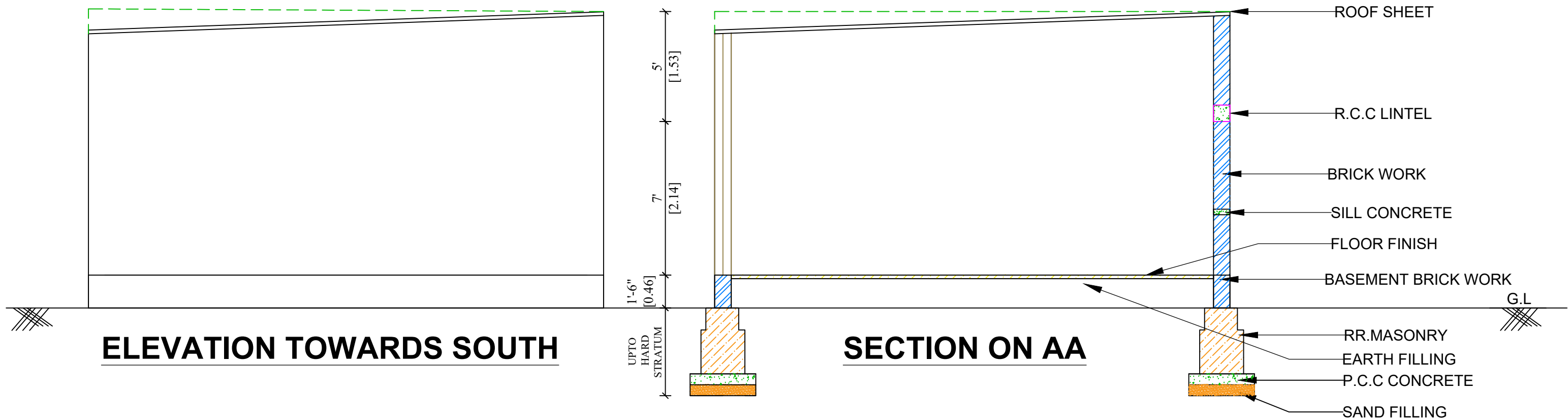


SCALE		
PLAN , SECTION & ELEVATION - 1:100		
ALL DIMENSIONS ARE IN FEET & METER		
AREA DETAILS		SFT
PROPOSED SECURITY ROOM		71.25
JOINERY DETAILS		
SYM	JOINERY	SIZE IN FT
D	DOOR	3'0"X8'0"
W	WINDOW	4'0"X5'0"

**PLAN SHOWING THE PROPOSED CONSTRUCTION OF GALVALUME SHEET ROOF GROUND AND TERRACE FLOOR COTTAGE INDUSTRIES - COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM VILLAGE AND PANCHAYAT, POLLACHI TALUK, COIMBATORE DISTRICT.**

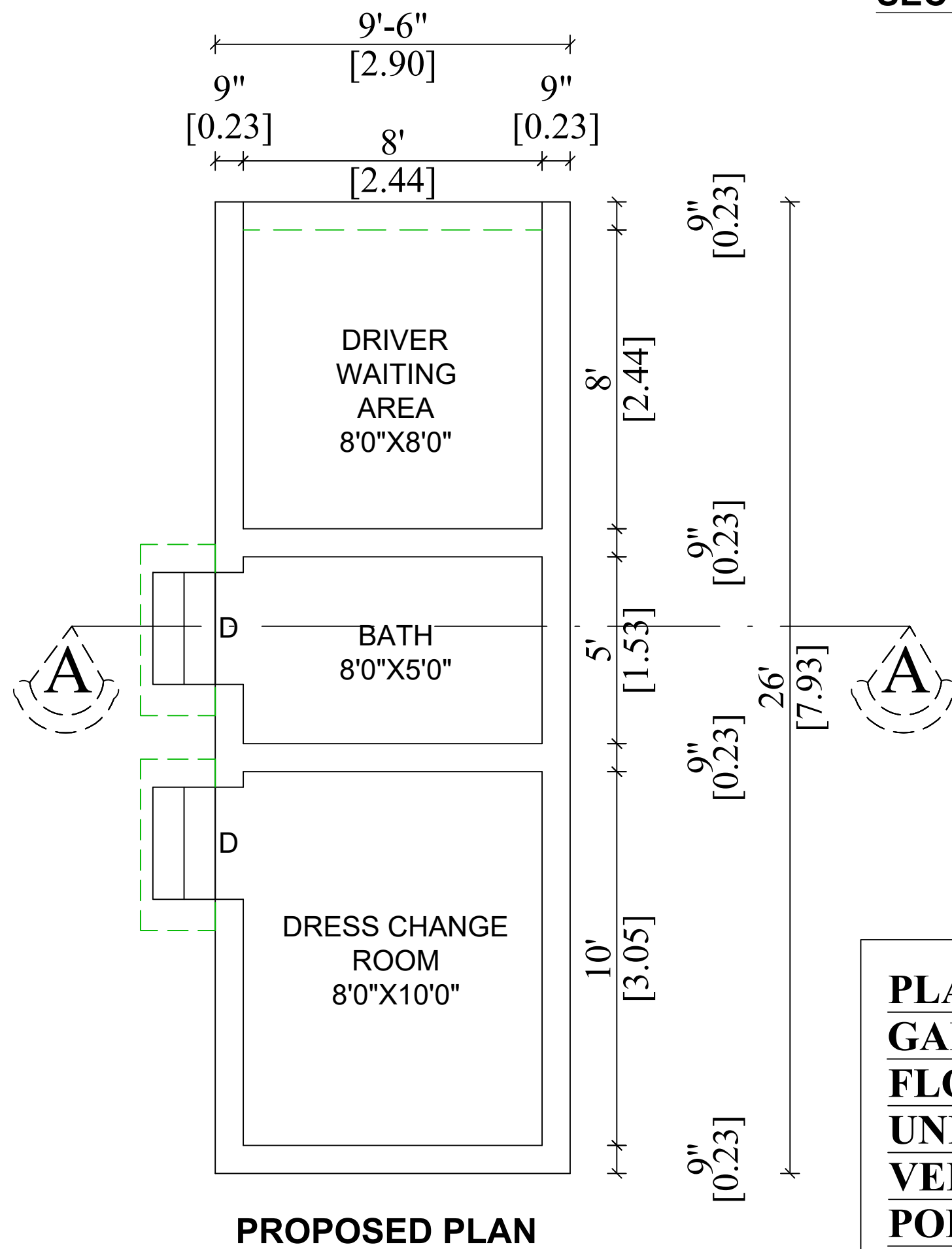
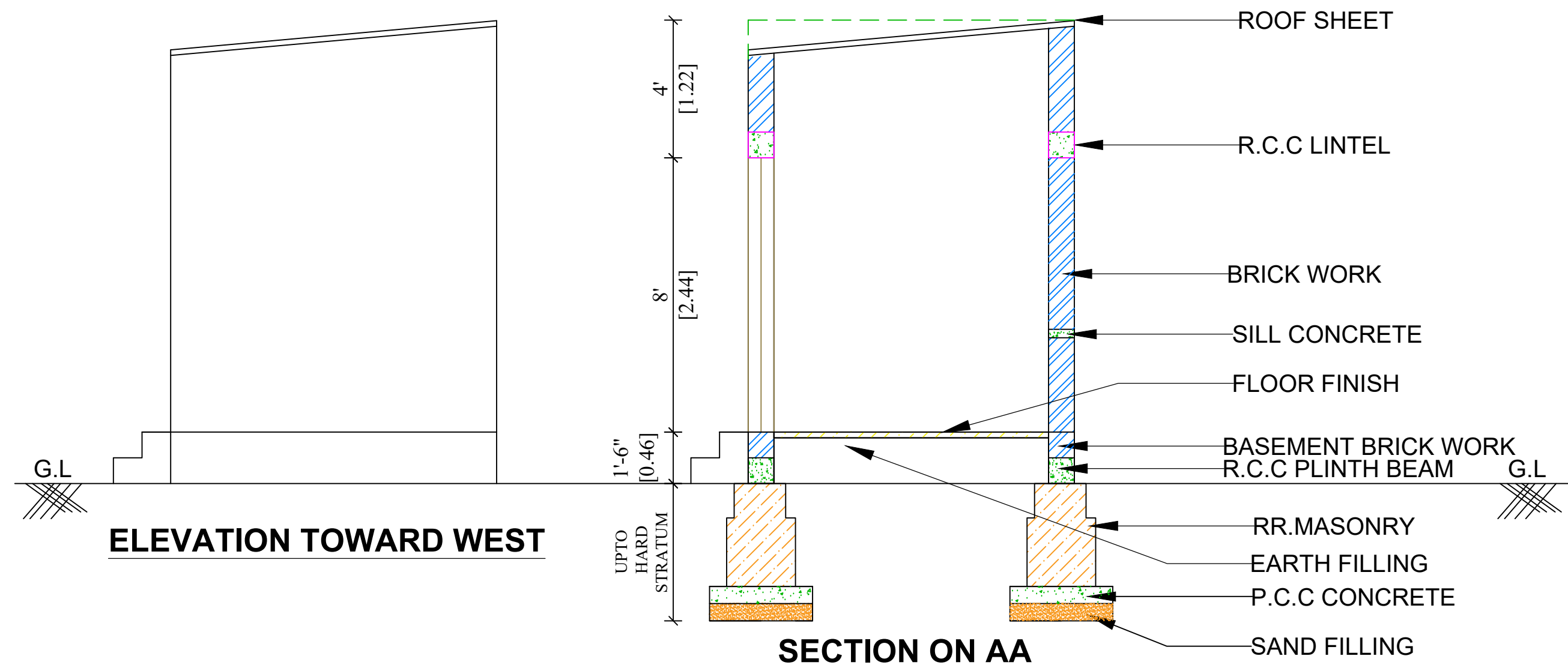






SCALE		
PLAN , SECTION & ELEVATION - 1:100		
ALL DIMENSIONS ARE IN FEET & METER		
AREA DETAILS		SFT
PROPOSED BOILER, FIRE WOOD STORAGE ROOM & TOILET PLAN		905.50
JOINERY DETAILS		
SYM	JOINERY	SIZE IN FT
D1	DOOR	2'6"X8'0"

**PLAN SHOWING THE PROPOSED CONSTRUCTION OF GALVALUME SHEET ROOF GROUND AND TERRACE FLOOR COTTAGE INDUSTRIES - COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM VILLAGE AND PANCHAYAT, POLLACHI TALUK, COIMBATORE DISTRICT.**



SCALE		
PLAN , SECTION & ELEVATION - 1:100		
ALL DIMENSIONS ARE IN FEET & METER		
AREA DETAILS		SFT
PROPOSED PLAN		247.00
JOINERY DETAILS		
SYM	JOINERY	SIZE IN FT
D	DOOR	3'0"X8'0"

**PLAN SHOWING THE PROPOSED CONSTRUCTION OF GALVALUME SHEET ROOF GROUND AND TERRACE FLOOR COTTAGE INDUSTRIES - COIR MANUFACTURE UNIT UPTO 200 H.P IN S.F.NO:5/2A AT VELLALAPALAYAM VILLAGE AND PANCHAYAT, POLLACHI TALUK, COIMBATORE DISTRICT.**

Name of Work: Construction of Tufted Mat Building				
Bill of Quantities				
Item No.	Quantity	Description	Quantity	Unit
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	335.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	330.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	230.00	cu.m
4		Supplying and filling <b>GRAVEL</b> in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted -1m3 etc., complete complying with standard specification.	860.00	cu.m
5		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	230.00	cu.m
7		<b>Plain Cement Concrete 1:2:4</b> (one cement, two sand and four hard broken stone jelly) using	190.00	cu.m.
8	2	Supplying and erecting <b>steel centering</b> including necessary supports for plane surfaces for Reinforced Cement Concrete works such as <b>column footings, column pedestals, plinth beams, grade beams, staircase steps, etc.</b> which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	320.00	sq.m.
9		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaion. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	170.00	sq.m.
	2	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.	160.00	sq.m.
11		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
a	2	In foundation and basement	100.00	cu.m

12	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire). Fe500 is a grade of High Strength. make of SAIL / Vizak as per IS 1786:2008.	130.00	Qtl
13		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	56.00	cu.m
b		In Ground floor	190.00	cu.m
14		<b>Brick partition walls</b>		
15		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)		
	2	40mm thick	40.00	Sqm
16		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.		
		<b>160 mm dia (In building with ground floor only)</b>	90.00	Rm
17		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	2500.00	Sq.m
18		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	80.00	Sq.m
19		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	1530.00	Sq.m
20		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	1050.00	Sq.m
21		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	400.00	Sq.m
22		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals as IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	2050	Sq.m
23		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	105	sq.m



24		supplying & fixing of steel of <b>rolling shutter</b> made up of 19G (1.00mm) CRCA deep corrugated lath interlocked to make one screen with flange type roll formed 12G bottom plate reinforced with 35*35*%mm L angle and locking arrangements on both sides fixed with 6mm brackets, ball bearing pulley and gear box arrangement with manual chain drive lifting, fixed with roll formed 12G 3" guide channel, 22G top cover with fixing cleats and complete with one coat zinc chromate yellow primer		
		Rolling Shutter	10	sq.m
25		Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angles of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided in case of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotating locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. In case of double leaf door M.S. Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter to conceal the gap between the two shutters at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, unloading and all other incidental charges etc., complete.	40	sq.m
26		fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/ m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face	90	sq.m
27		structural steel work rivetted, bolted or welded in built up section, trusses and framed work, including cutting, hoisting, fixing in position and applying a primary coat of approval steel primer all complete.	11200	kg
28		Fabrication and erection of Pre engineered building steel structure. Trusses, "c" Purlin, laying of PP - galvanised iron steel. Steel structure materials using TATA plate/ JSW plates as per IS 2062 grade. Frame type - Clear span rigid. purlin section, 180x60x20x2. TATA make roof .45 mm PPGL including canopy, Louver, Ventilator, Turbo exhaust. One coat of Zinc chromite yellow primer and 2 coat of enamel paint for PEB. supply & fixing of bare galvalum roofing sheet 0.47mm TCT; 550MPa, 150GSM; JSW bare galvalum sheets. erection in line, level, alignment, screws, washers, scaffolding with perlines, cranes, and completing all with necessary tools & equipment.		
a		galvalume sheet roof with perlines etc,	2025	sq.m
b		galvalume sheet Ridge roof with perlines etc..	280	sq.m
29		supply & fixing of color coated cladding sheet 0.47mm TCT; 550MPa, 150GSM; JSW color coated galvalume sheets. erection in line alignment, screws, washers, scaffolding, cranes and completing all with necessary tools & equipment.	730	sq.m

Name of Work: Construction of Geo Textile Building				
Bill of Quantities				
Item No.	Quantity	Description	Quantity	Unit
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	100.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	55.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	72.00	cu.m
4		Supplying and filling <b>GRAVEL</b> in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted -1m3 etc., complete complying with standard specification.	190.00	cu.m
5		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	40.00	cu.m
6		<b>Plain Cement Concrete 1:2:4</b> (one cement, two sand and four hard broken stone jelly) used	27.00	cu.m.
7	2	Supplying and erecting <b>steel centering</b> including necessary supports for plane surfaces for Reinforced Cement Concrete works such as <b>column footings, column pedestals, plinth beams, grade beams, staircase steps, etc.</b> which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	100.00	sq.m.
8		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specification. (Payment for centering shall be given after the concrete is laid)		
a	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	85.00	sq.m.
b	2	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.	74.00	sq.m.
9		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
a	2	In foundation and basement	30.00	cu.m
b	2	In Ground floor	20.00	cu.m

10	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire). Fe500 is a grade of High Strength. make of SAIL / Vizak as per IS 1786:2008.	65.00	Qtl
11		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	11.00	cu.m
b		In Ground floor	25.00	cu.m
12		<b>Brick partition walls</b>		
13		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)		
	2	40mm thick	18.00	Sqm
14		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.		
		<b>160 mm dia (In building with ground floor only)</b>	30.00	Rm
15		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	380.00	Sq.m
16		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	50.00	Sq.m
17		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	220.00	Sq.m
18		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	175.00	Sq.m
19		providing <b>anti termit</b> treatment to soil adjacent and building foundation, plinth periphery of the building by application of chemicals as IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below. including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc., complete and as directed by the departmental officers.	300	Sq.m
20		<b>RR masonry</b> in cm 1:5 (one cement, five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc., complete complying with standard specification.	25	sq.m

21		supplying & fixing of steel of <b>rolling shutter</b> made up of 19G (1.00mm) CRCA deep corrugated lath interlocked to make one screen with flange type roll formed 12G bottom plate reinforced with 35*35*6mm L angle and locking arrangements on both sides fixed with 6mm brackets, ball bearing pulley and gear box arrangement with manual chain drive lifting, fixed with roll formed 12G 3" guide channel, 22G top cover with fixing cleats and complete with one coat zinc chromate yellow primer		
		Rolling Shutter	30	sq.m
22		fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/ m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face	30	sq.m
23		structural steel work rivetted, bolted or welded in built up section, trusses and framed work, including cutting, hoisting, fixing in position and applying a primary coat of approval steel primer all complete.	1500	kg
24		Fabrication and erection of Pre engineered building steel structure. Trusses, "c" Purlin, laying of PP - galvanised iron steel. Steel structure materials using TATA plate/ JSW plates as per IS 2062 grade. Frame type - Clear span rigid. purlin section, 180x60x20x2. TATA make roof .45 mm PPGL including canopy, Louver, Ventilator, Turbo exhaust. One coat of Zinc chromite yellow primer and 2 coat of enamel paint for PEB. supply & fixing of bare galvalum roofing sheet 0.47mm TCT; 550MPa, 150GSM; JSW bare galvalum sheets. erection in line, level, alignment, screws, washers, scaffolding with perlines, cranes, and completing all with necessary tools & equipment. supply & fixing of bare galvalume roofing sheet 0.47mm TCT; 550MPa, 150GSM; JSW bare galvalume sheets. erection in line, level, alignment, screws, washers, scaffolding with perlines, cranes, and completing all with necessary tools & equipment.		
a		galvalume sheet roof with perlines etc,	275	sq.m
b		galvalume sheet Ridge roof with perlines etc..	60	sq.m
25		supply & fixing of color coated cladding sheet 0.47mm TCT; 550MPa, 150GSM; JSW color coated galvalume sheets. erection in line alignment, screws, washers, scaffolding, cranes and completing all with necessary tools & equipment.	230	sq.m
26		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	210	Sq. m

<b>Name of Work: Construction of boiler room &amp; fire wood storage</b>				
<b>Bill of Quantities</b>				
<b>Item No.</b>	<b>Quantity</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	50.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	20.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	15.00	cu.m
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	13.00	cu.m
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificalton. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	21.00	sq.m.
6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
a	2	In foundation and basement	1.00	cu.m

7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	1.10	Qtl
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	4.00	cu.m
b		In Ground floor	30.00	cu.m
9		<b>Brick partition walls</b>		
		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)		
	2	In Ground Floor	17.00	Sqm
10		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)		
	2	40mm thick	70.00	Sqm
11		Flooring with following <b>ceramic tiles of following size</b> laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)		
		Self Designed Colour Ceramic Tiles- 305 x 305 x 6 mm	7.00	Sq.m
12		<b>Dadoing walls</b> with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.		
		Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm	30.00	Sq.m
13		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.		

		<b>160 mm dia (In building with ground floor only)</b>	20.00	Rm
14		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	310.00	Sq.m
15		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	3.00	Sq.m
16		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	210.00	Sq.m
17		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	100.00	Sq.m
18		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	8.00	Sq.m
19		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	85	Sq.m
20		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	30	Cu.m
21		Fabrication and erection of Pre engineered building steel structure. Trusses,"c" Purlin, laying of PP - galvanised iron steel. Steel structure materials using TATA plate/ JSW plates as per IS 2062 grade. Frame type - Clear span rigid. purlin section, 180x60x20x2. TATA make roof .45 mm PPGL including canopy, Louver, Ventilator, Turbo exhaust. One coat of Zinc chromite yellow primer and 2 coat of enamel paint for PEB.supply &fixing of bare galvalum roofing sheet 0.47mm TCT;550MPa,150GSM;JSW bare galvalum sheets.errection in line,level,alignment, screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment.		
a		galvalume sheet roof with perlines etc,	90	sq.m
22		<b>Solid PVC door shutters</b> using 19 Gauge 19mm MS square tubes for		
		pvc doors with frames	8	sq.m

Name of Work: Construction of Office				
Bill of Quantities				
Item No.	Quantity	Description	Quantity	Unit
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	100.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	30.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	30.00	cu.m
4		Supplying and filling <b>GRAVEL</b> in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted -1m3 etc., complete complying with standard specification.	70.00	cu.m
5		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	30.00	cu.m
6	2	Supplying and erecting <b>steel centering</b> including necessary supports for plane surfaces for Reinforced Cement Concrete works such as <b>column footings, column pedestals, plinth beams, grade beams, staircase steps, etc.</b> which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	25.00	sq.m.
7		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specifiaiton. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	160.00	sq.m.
8		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
a	2	In foundation and basement	2.60	cu.m
b	2	In Ground floor	30.00	cu.m
9	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire) Fe500 is a grade of High Strength. make of SAIL / Vizak as per IS 1786:2008.	43.00	Qtl
10		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specifiction.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	9.00	cu.m
b		In Ground floor	48.00	cu.m
c		In First floor	10.00	cu.m
11		<b>Brick partition walls</b>		
12		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)		
	2	In Ground Floor	61.00	Sqm



13		Paving the floor with best quality <b>Verified Tiles of size 600 x 600 x 8mm</b> of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	90.00	Sq.m
14		Flooring with following <b>ceramic tiles of following size</b> laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)		
		Self Designed Colour Ceramic Tiles- 305 x 305 x 6 mm	10.00	Sq.m
15		<b>Dadoing walls</b> with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.		
		Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm	31.00	Sq.m
16		<b>Weathering course in brick jelly lime concrete</b> using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.		
a		In Ground Floor	7.50	cu.m
17		<b>Finishing the top of roof</b> with one course of <b>machine pressed tiles</b> following size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers		
		Pressed Tiles of 230mm x 230mm x 20mm	100.00	Sq.m
18		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.		
		<b>160 mm dia (In building with ground floor only)</b>	15.00	Rm
19		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	680.00	Sq.m
20		<b>Special ceiling plastering</b> and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, facia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) <b>10mm thick</b> including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	100.00	Sq.m
21		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	50.00	Sq.m
22		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	370.00	Sq.m
23		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	310.00	Sq.m
24		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	27.00	Sq.m
25		providing <b>anti termit</b> treatment to soil adjacent and building foundation, plinth periphery of the building by application of chemicals as IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc, complete and as directed by the departmental officers.	115	Sq.m

26		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	45	m3
27		Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.	5	sq.m
28		fabricating, Supplying and fixng in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/ m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly.2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are revetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of lenght 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter.An MS square bar of 12mm size is welded to the inner face	13	sq.m
29		<b>Solid PVC door shutters</b> using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered	9	sq.m
30		Fabricating Supplying and fixing in position of aluminium anodised natural colour matt finish <b>entrance door</b> of 2.77 x 2.10 m size with fixed glazing at one side of door and double leaves door of size 1.80 m x 2.10m with half panelled with 12mm thick bothside prelaminated partile board at bottom and half glazed using 5.50mm thick Plain glass at top double leaves door with10mm size aluminium grill. The outer frame shall be with aluminium box section 101.60x44.45x3.18m at 2.319kg/m and Shutter frame made of section with Vertical & Top rail: 50x 44.45x 2.50mm @1.292 kg/m, Bottom rail: 100x44.45x2.50mm@ 1.974 kg/m,Lock rail : 50x44.45x2.5mm @ 1.292 kg/m,Alu. Clips: 17.15x17.27x1.50mm @ 0.176 kg/m,Alu. Handle: 100x30mm @ 0.988 kg/m and Inner Frame of section 63.50x38x3 mm @1.72 kg/m and necessary accessories such as rubber beading PVC felt, handle for a length of shutter (both sides), locking arrangements, furniture fittings such as aluminium tower bolts-250x12mm - 2 No, aluminium tower bolt 200x12mm - 1No., aluminium door stopper with rubber bush - 2Nos ., lock-1No.,floor spring as per BIS standards including cost of all materials, labour charges and power consumption charges required for fabrication including chipping dismantling and making holes to the required extent in RCC in column/beam/masonry with power drill wherever neccessary and redoing the damaged portion to the original condition after fixing etc. omplete. All condition in accordance with ISI specification 1868 / 1962 oranodic film thickness of not less than 15 microns. .Aluminium sections and furniture fittings shallbe got approved by the Executive Engineer incharge.	8	sq.m
31		Supplying fabricating and fixing in position of Aluminium anodized natural colour matt finish openable type glass window Four leaves in all floors having the following Aluminium section such as outer frame of section (418/code) of 37.70x33mmx2mm @ 0.50kg/m, central mullions of (code 9153,2.50mm thick) 59x33x2.5mm @ 0.936kg/m,Z section of having 21mm 24.50mm vertical and width of 33mm @2.50mm thick.Confirming to code No 4152@0.525kg/m Aluminium clips of 3.60 length having total weight of 0.40kg or 0.109kg/m.with neccessary accssories such as rubber beadings, special hinges, handle including supplying and fixing 4mm thick plain glass including cost of all materials, labours, power consumption required for fabrication, drilling holes in RCC column slab, masonry walls wherever necessary with power drills to the required extent and make good to the original conditons after fixing and also as directed. All the Aluminium sections are to the anodised with matt finish under electrically controlled conditons in accordance with Is 1868/1962 for an average anodic film thickness of 15 microns etc.Complete.	7	sq.m
		al window		

32		Supplying, fabricating and fixing inposition <b>Aluminium anodised natural colour matt finish louvered ventilator</b> size 600mm x 600 mmof with outer frame section with 62x38x2mm at 1.174 kg/m and the louvered with moving arrangements made with aluminium channel of size 60x30x4mm @ 1.274 kg/m ALuminium clips 19.05x17.27/ 11.05x0.075mm @ 0.169kg/m with necessary 4mm thick plain glass panel for louvers including cost of all materials, labour and power required for fabrications, chipping dismantling making holes in RCC, masonry and made good to the original condition after fixing etc., complete. The Aluminium surface is to be anodised with matt finish under electrically controlled condition in accordance with ISI specification 1868/1962 for anodic film thickness of notless than 15 Microns,etc., complete. loover ventilator	1	sq.m
33		Supplying and fixing MS grills	630	Kg
34		Supplying and fixing Aluminium sliding Window	10	sq.m
35		SS Hand rails	5.5	Sq.m

Construction of labour shed				
Bill of Quantities				
Item No.	Quantity	Description	Quantity	Unit
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	72.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	20.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	30.00	cu.m
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	12.00	cu.m
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specifiaiton. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	30.00	sq.m.
6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
	2	In foundation and basement	3.00	cu.m
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	3.00	Qtl
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specifiction.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	7.00	cu.m
b		In Ground floor	52.00	cu.m
9		<b>Brick partition walls</b>		
		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)		
	2	In Ground Floor	11.00	Sqm

10		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trawl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)		
	2	40mm thick	64.00	Sqm
11		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.		
		<b>160 mm dia (In building with ground floor only)</b>	20.00	Rm
12		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	510.00	Sq.m
13		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	3.00	Sq.m
14		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	300.00	Sq.m
15		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	215.00	Sq.m
16		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	60.00	Sq.m
17		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	110	Sq.m
18		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	40	sq.m
19		supplying &fixing of steel of <b>rolling shutter</b> made up of 19G (1.00mm) CRCA deep corrugated lath interlocked to make one screen with flange type roll formed 12G bottom plate reinforced with 35*35*%mm L angle and locking arrangements on both sides fixed with 6mm brackets, ball bearing pulley and gear box arrangement with manual chain drive lifting,fixed with roll formed 12G 3" guide channel,22G top cover with fixing cleats and complete with one coat zine chromate yelloow prinmer		
		Rolling Shutter	10	sq.m

20		Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angles of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotating locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter to conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete	15	sq.m
21		fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/ m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are revetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face	7	sq.m
22		supply & fixing of bare galvalume roofing sheet 0.47mm TCT; 550MPa, 150GSM; JSW bare galvalume sheets. erection in line, level, alignment, screws, washers, scaffolding with perlines, cranes, and completing all with necessary tools & equipment.		
a		galvalume sheet roof with perlines etc,	110	sq.m
23		<b>Solid PVC door shutters</b> using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter.	5.5	Sq. m

<b>Name of Work: Construction of Security Room</b>				
<b>Bill of Quantities</b>				
<b>Item No.</b>	<b>Quantity</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	12.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	3.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	2.00	cu.m
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	2.00	cu.m
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaliton. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	15.00	sq.m.
6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
	2	In Ground floor	2.00	cu.m

7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	2.20	Qtl
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	1.50	cu.m
b		In Ground floor	6.00	cu.m
9		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trawl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)		
	2	40mm thick	7.00	Sqm
10		<b>Weathering course in brick jelly lime concrete</b> using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and <del>as directed by the departmental officers</del>		
a		In Ground Floor	0.35	cu.m
11		<b>Finishing the top of roof</b> with one course of <b>machine pressed tiles</b> following size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers		
		Pressed Tiles of 230mm x 230mm x 20mm	7.00	Sq.m
12		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with <del>standard specification</del>		
		<b>160 mm dia (In building with ground floor only)</b>	5.00	Rm
13		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	60.00	Sq.m
14		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	10.00	Sq.m



15		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	36.00	Sq.m
16		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	34.00	Sq.m
17		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	3.00	Sq.m
18		providing <b>anti termit</b> treatment to soil adjacent and building foundation, plinth periphery of the building by application of chemicals as IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below. including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc, complete and as directed by the departmental officers.	7	Sq.m
19		<b>RR masonry</b> in cm 1:5 (one cement, five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc., complete complying with standard specification.	9.5	sq.m
20		Fabricating Supplying and fixing in position of aluminium anodised natural colour matt finish <b>entrance door</b> of 2.77 x 2.10 m size with fixed glazing at one side of door and double leaves door of size 1.80 m x 2.10m with half panelled with 12mm thick bothside prelaminated particle board at bottom and half glazed using 5.50mm thick Plain glass at top double leaves door with 10mm size aluminium grill. The outer frame shall be with aluminium box section 101.60x44.45x3.18mm at 2.319kg/m and Shutter frame made of section with Vertical & Top rail: 50x44.45x 2.50mm @1.292 kg/m, Bottom rail: 100x44.45x2.50mm@ 1.974 kg/m, Lock rail : 50x44.45x2.5mm @ 1.292 kg/m, Alu. Clips: 17.15x17.27x1.50mm @ 0.176 kg/m, Alu. Handle: 100x30mm @ 0.988 kg/m and Inner Frame of section 63.50x38x3 mm @1.72 kg/m and necessary accessories such as rubber beading PVC felt, handle for a length of shutter (both sides), locking arrangements, furniture fittings such as aluminium tower bolts-250x12mm - 2 No, aluminium tower bolt 200x12mm - 1No., aluminium door stopper with rubber bush - 2Nos., lock-1No., floor spring as per BIS standards including cost of all materials, labour charges and power consumption charges required for fabrication including chipping dismantling and making holes to the required extent in RCC in column/beam/masonry with power drill wherever necessary and redoing the damaged portion to the original condition after fixing etc. complete. All condition in accordance with ISI specification 1868 / 1962 anodic film thickness of not less than 15 microns. Aluminium sections and furniture fittings shall be got approved by the Executive Engineer in charge.		

		entrance door	4.5	sq.m
21		Supplying fabricating and fixing in position of Aluminium anodized natural colour matt finish openable type glass window Four leaves in all floors having the following Aluminium section such as outer frame of section (418/code) of 37.70x33mmx2mm @ 0.50kg/m, central mullions of (code 9153,2.50mm thick) 59x33x2.5mm @ 0.936kg/m,Z section of having 21mm 24.50mm vertical and width of 33mm @2.50mm thick.Confirming to code No 4152@0.525kg/m Aluminium clips of 3.60 length having total weight of 0.40kg or 0.109kg/m.with neccessary accssories such as rubber beadings, special hinges, handle including supplying and fixing 4mm thick plain glass including cost of all materials, labours, power consumption required for fabrication, drilling holes in RCC column slab, masonry walls wherever necessary with power drills to the required extent and make good to the original conditons after fixing and also as directed. All the Aluminium sections are to the anodised with matt finish under electrically controlled conditons in accordance with Is 1868/1962 for an average anodic film thickness of 15 microns etc.Complete.		
		al window	4	sq.m

<b>Name of Work: Construction of Driver room</b>				
<b>Bill of Quantities</b>				
<b>Item No.</b>	<b>Quantity</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	30.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	8.00	cu.m
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	4.00	cu.m
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	7.50	cu.m
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specifiaiton. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	14.00	sq.m.
6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
	2	In Ground floor	1.50	cu.m
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	1.65	Qtl

8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	2.50	cu.m
b		In Ground floor	18.00	cu.m
9		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowel, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)		
	2	40mm thick	20.00	Sqm
10		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	90.00	Sq.m
11		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	90.00	Sq.m
12		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	12.00	Sq.m
13		providing <b>anti termit</b> treatment to soil adjacent and building foundation, plinth periphery of the building by application of chemicals as IS 63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc, complete and as directed by the departmental officers.	23	Sq.m
14		<b>RR masonry</b> in cm 1:5 (one cement, five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc., complete complying with standard specification.	14	sq.m

15		Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.	4.5	sq.m
16		supply &fixing of bare galvalume roofing sheet 0.47mm TCT;550MPa,150GSM;JSW bare galvalume sheets.erection in line,level,alignment ,screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment.		
a		galvalume sheet roof with perlines etc,	23	sq.m
17		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	180	Sq. m

Name of Work: Construction of Genset room				
Bill of Quantities				
Item No.	Quantity	Description	Quantity	Unit
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	70.00	cu.m
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	30.00	cu.m
3		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	16.00	cu.m
4		<b>Plain Cement Concrete 1:2:4</b> (one cement, two sand and four hard broken stone jelly) using	8.00	cu.m.
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specifiaiton. (Payment for centering shall be given after the concrete is laid)		
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	125.00	sq.m.
6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers		
	2	In Ground floor	16.00	cu.m
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	18.00	Qtl
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specifiction.		
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>		
a		For foundation & basement	6.00	cu.m
b		In Ground floor	45.00	cu.m
9		<b>Brick partition walls</b>		
		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)		
a	2	In Ground Floor	6.00	Sqm

10		Flooring with following <b>ceramic tiles of following size</b> laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)		
		Self Designed Colour Ceramic Tiles- 305 x 305 x 6 mm	2.50	Sq.m
11		<b>Dadoing walls</b> with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.		
		Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm	8.00	Sq.m
12		<b>Weathering course in brick jelly lime concrete</b> using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.		
a		In Ground Floor	7.00	cu.m
13		<b>Finishing the top of roof</b> with one course of <b>machine pressed tiles</b> following size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers		
		Pressed Tiles of 230mm x 230mm x 20mm	95.00	Sq.m
14		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.		
		<b>160 mm dia (In building with ground floor only)</b>	20.00	Rm
15		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	530.00	Sq.m
16		<b>Special ceiling plastering</b> and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, fascia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) <b>10mm thick</b> including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	86.00	Sq.m
17		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	95.00	Sq.m
18		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	355.00	Sq.m
19		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	270.00	Sq.m

20		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		
		<b>Two coat with primer</b>	30.00	Sq.m
21		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	100	Sq.m
22		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	36	m3
23		Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.	8	sq.m
24		fabricating, Supplying and fixng in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/ m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly.2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are revetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of lenght 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter.An MS square bar of 12mm size is welded to the inner face	6.5	sq.m



25		<b>Solid PVC door shutters</b> using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter. pvc doors with frames	2	
				sq.m

**PART-I**

Date: \_\_\_\_\_

From,  
Name:  
Address:  
Ph:  
Fax:  
E-mail:

To,  
The Director,  
M/s.Cocobi Producer Company Limited,  
No.13, Dharapuram Road, Anna Nagar,  
Negamam, Pollachi Tk,  
Coimbatore – 642 120

Sir,

Sub: Re-Tender for the construction of Industrial Work shed buildings and amenities for Negamam Coir Cluster - Submission of Part I - Reg  
Ref: Your Re-Tender Notice Dt. ....

With reference to your Re-tender notice, we submit herewith our sealed Tender for the construction of Industrial Work shed buildings and amenities for Negamam Coir Cluster, Coimbatore, as specified by SPV in this tender document.

We enclose the following documents:

- 1) Tender conditions duly signed in each page and enclosed in token of accepting the Tender conditions
- 2) Demand Draft no. \_\_\_\_\_ for Rs.2.00 lakhs (Rupees Two Lakhs only), in favour of “Cocobi Producer Company Limited – TRA, Hard Interventions”, drawn on \_\_\_\_\_ Bank payable at Coimbatore, towards Earnest Money Deposit.
- 3) Authorization letter from the Company 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 executed in last 3 years as per Annexure-V
- 7) Declaration for not having black listed by any other Govt. agencies (as per Annexure-VI).
- 8) Declaration for not having tampered the Tender documents downloaded from the websites **www.tenders.tn.gov.in** or **www.itcot.com** (Annexure-VII).
- 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) Valid Registration Certificate from PWD / CPWD / Highways department
- 14) Work Orders issued by the clients.
- 15) Performance certificate issued by the clients.
- 16) The Annual Report / certified copies of Balance Sheet, Profit & Loss statement along with schedules for the last 3 consecutive financial years FY 2016-17, 2017-18 and 2018-19.
- 17) Latest I.T return.
- 18) Notarized translated English version of the documents in a language other than English/Tamil, if any.

Yours faithfully,

**SIGNATURE OF THE TENDERER**

**Encl: As stated above**

**ANNEXURE - III****DETAILS OF THE TENDERER**

1. Name of the Tenderer	
2. Registered Office Address	    Telephone Number: Fax : Email : Website, if any
3. Contact Person	Name: Designation: Phone: Mobile: Email:
4. Date of Incorporation	
5. Legal Status	Proprietorship/partnership/Pvt. Limited/Public Limited/ others(Pl. mention)
6. Eligible license holder of	
7. Brief profile of the tenderer	
8. Number of staffs on regular payroll	Technical: Administration:
9. PAN Number	
10. GST Registration Number	

**SIGNATURE OF THE TENDERER**  
**(with seal and address)**

**ANNUAL TURN OVER STATEMENT**

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

<b>S.no</b>	<b>Year</b>	<b>Turnover (Rs. in lakh)</b>
1	2016-2017	
2	2017-2018	
3	2018-2019	
	Total	
Average annual turnover		

**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 Work	Extent/Area covered in Sq.ft	Year of Completion	Cost (Rs.in Lakhs)	Work Order & Completion certificate enclosed (Yes/No)
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

**SIGNATURE OF THE TENDERER**  
**(with seal and address)**

**ANNEXURE - VI**

**CERTIFICATE**

Date: \_\_\_\_\_

Certified that M/s...../ the firm /company or its partners / share holders had not been blacklisted by any Government Agencies.

**SIGNATURE OF THE TENDERER**  
**(with seal and address)**

**DECLARATION FORM**

Date: \_\_\_\_\_

a) I/We ..... having our office at ..... do declare that I/We have carefully read all the conditions of tender sent to me/us by the SPV, for the tenders floated vide Re-tender ref.no. \_\_\_\_\_ for the construction of Industrial Work shed buildings and amenities for Negamam Coir Cluster, Coimbatore and will complete the contract as per the tender conditions.

b) I/We have downloaded the tender document from the internet site **www.tenders.tn.gov.in** or **www.itcot.com** 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 full Earnest Money Deposit will be forfeited and I /We am/are liable to be banned from doing business with M/s.Cocobi Producer Company Limited or prosecuted.

**SIGNATURE OF THE TENDERER**  
**(with seal and address)**



**PART-II**

From,

Name:  
Address:  
Ph:  
Fax:  
E-mail:

To,

The Director,  
M/s.Cocobi Producer Company Limited,  
No.13, Dharapuram Road, Anna Nagar,  
Negamam, Pollachi Tk,  
Coimbatore – 642 120

Sir,

Sub: Re-Tender for the construction of Industrial Work shed buildings and amenities for Negamam Coir Cluster, Coimbatore - Submission of Part II - Price Offer-Reg.

Ref:- Our tender (Technical Bid) submitted for the “Construction of Industrial Work shed buildings and amenities for Negamam Coir Cluster, Coimbatore”

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In continuation of our above tender, we submit herewith the price offer for the “Industrial Work shed buildings and amenities for Negamam Coir Cluster, Coimbatore” as specified by SPV in this tender document.

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

Yours faithfully,

**SIGNATURE OF THE TENDERER**

## Name of Work: Construction of Tufted Mat Building

Annexure -XX

## Bill of Quantities

Annexure- IX

Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	335.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	330.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	230.00	cu.m		
4		Supplying and filling <b>GRAVEL</b> in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted -1m3 etc., complete complying with standard specification.	860.00	cu.m		
5		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	230.00	cu.m		
7		<b>Plain Cement Concrete 1:2:4</b> (one	190.00	cu.m.		
8	2	Supplying and erecting <b>steel centering</b> including necessary supports for plane surfaces for Reinforced Cement Concrete works such as <b>column footings, column pedestals, plinth beams, grade beams, staircase steps, etc.</b> which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	320.00	sq.m.		

9		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm centre to centre etc. complete complying with the standard specificaliton. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	170.00	sq.m.		
	2	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.	160.00	sq.m.		
11		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
a	2	In foundation and basement	100.0	cu.m		
12	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire). Fe500 is a grade of High Strength. make of SAIL / Vizak as per IS 1786:2008.	130.00	Qtl		
13		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	56.00	cu.m		
b		In Ground floor	190.0	cu.m		
14		<b>Brick partition walls</b>				

15		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)				
	2	40mm thick	40.00	Sqm		
16		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	90.00	Rm		
17		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	2500.00	Sq.m		
18		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	80.00	Sq.m		
19		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	1530.00	Sq.m		
20		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	1050.00	Sq.m		

21		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	400.0	Sq.m		
22		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	2050	Sq.m		
23		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	105	sq.m		
24		supplying &fixing of steel of <b>rolling shutter</b> made up of 19G (1.00mm) CRCA deep corrugated lath interlocked to make one screen with flange type roll formed 12G bottom plate reinforced with 35*35*%mm L angle and locking arrangements on both sides fixed with 6mm brackets, ball bearing pulley and gear box arrangement with manual chain drive lifting,fixed with roll formed 12G 3" guide channel,22G top cover with fixing cleats and complete with one coat zine chromate yelloow prinmer				
		Rolling Shutter	10	sq.m		

25		<p>Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.</p>	40	sq.m		
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26		fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face	90	sq.m		
27		structural steel work rivetted ,bolted or welded in built up section, trusses and framed work ,including cutting,hoisting,fixing in position and applying a primary coat of approval steel primer all complete.	11200	kg		
28		Fabrication and erection of Pre engineered building steel structure. Trusses,"c" Purlin, laying of PP - galvanised iron steel. Steel structure materials using TATA plate/ JSW plates as per IS 2062 grade. Frame type - Clear span rigid. purlin section, 180x60x20x2. TATA make roof .45 mm PPGL including canopy, Louver, Ventilator, Turbo exhaust. One coat of Zinc chromite yellow primer and 2 coat of enamel paint for PEB. supply & fixing of bare galvalum roofing sheet 0.47 mm TCT;550MPa,150GSM;JSW bare galvalum sheets. erection in line,level,alignment, screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment.				
a		galvalume sheet roof with perlines etc,	2025	sq.m		
b		galvalume sheet Ridge roof with perlines etc..	280	sq.m		

29		supply & fixing of color coated cladding sheet 0.47mm TCT;550MPa,150GSM;JSW color coated galvalume sheets .erection in line alignment ,screws,washers,scaffolding,cranes and completing all with necessary tools & equipment.	730	sq.m		
		<b>Total</b>				



## Name of Work: Construction of Geo Textile Building

Bill of Quantities						
Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	100.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	55.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	72.00	cu.m		
4		Supplying and filling <b>GRAVEL</b> in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted -1m <sup>3</sup> etc., complete complying with standard specification.	190.00	cu.m		
5		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	40.00	cu.m		
6		<b>Plain Cement Concrete 1:2:4</b> (one	27.00	cu.m.		
7	2	Supplying and erecting <b>steel centering</b> including necessary supports for plane surfaces for Reinforced Cement Concrete works such as <b>column footings, column pedestals, plinth beams, grade beams, staircase steps, etc.</b> which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	100.00	sq.m.		

8		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaliton. (Payment for centering shall be given after the concrete is laid)				
a	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	85.00	sq.m.		
b	2	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.	74.00	sq.m.		
9		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
a	2	In foundation and basement	30.00	cu.m		
b	2	In Ground floor	20.00	cu.m		
10	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire). Fe500 is a grade of High Strength. make of SAIL / Vizak as per IS 1786:2008.	65.00	Qtl		
11		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specifiction.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	11.00	cu.m		
b		In Ground floor	25.00	cu.m		
12		<b>Brick partition walls</b>				

13		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)				
	2	40mm thick	18.00	Sqm		
14		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	30.00	Rm		
15		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	380.00	Sq.m		
16		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	50.00	Sq.m		
17		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	220.00	Sq.m		
18		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	175.0	Sq.m		

19		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	300	Sq.m		
20		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	25	sq.m		
21		supplying &fixing of steel of <b>rolling shutter</b> made up of 19G (1.00mm) CRCA deep corrugated lath interlocked to make one screen with flange type roll formed 12G bottom plate reinforced with 35*35*%mm L angle and locking arrangements on both sides fixed with 6mm brackets, ball bearing pulley and gear box arrangement with manual chain drive lifting,fixed with roll formed 12G 3" guide channel,22G top cover with fixing cleats and complete with one coat zine chromate yelloow prinmer				
		Rolling Shutter	30	sq.m		

22		<p>fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face</p>	30	sq.m		
23		<p>structural steel work rivetted ,bolted or welded in built up section, trusses and framed work ,including cutting,hoisting,fixing in position and applying a primary coat of approval steel primer all complete.</p>	1500	kg		

24		Fabrication and erection of Pre engineered building steel structure. Trusses,"c" Purlin, laying of PP - galvanised iron steel. Steel structure materials using TATA plate/ JSW plates as per IS 2062 grade. Frame type - Clear span rigid. purlin section, 180x60x20x2. TATA make roof .45 mm PPGL including canopy, Louver, Ventilator, Turbo exhaust. One coat of Zinc chromite yellow primer and 2 coat of enamel paint for PEB.supply &fixing of bare galvalum roofing sheet 0.47mm TCT;550MPa,150GSM;JSW bare galvalum sheets.erection in line,level,alignment, screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment. supply &fixing of bare galvalume roofing sheet 0.47mm TCT;550MPa,150GSM;JSW bare galvalume sheets.erection in line,level,alignment ,screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment.				
a		galvalume sheet roof with perlines etc,	275	sq.m		
b		galvalume sheet Ridge roof with perlines etc..	60	sq.m		
25		supply & fixing of color coated cladding sheet 0.47mm TCT;550MPa,150GSM;JSW color coated galvalume sheets .erection in line alignment ,screws,washers,scaffolding,cranes and completing all with necessary tools & equipment.	230	sq.m		
26		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	210	Sq. m		
		<b>Total</b>				

Name of Work: Construction of boiler room & fire wood storage						
Bill of Quantities						
Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	50.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	20.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	15.00	cu.m		
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	13.00	cu.m		
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specifaicton. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	21.00	sq.m.		

6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
a	2	In foundation and basement	1.00	cu.m		
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	1.10	Qtl		
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	4.00	cu.m		
b		In Ground floor	30.00	cu.m		
9		<b>Brick partition walls</b>				
		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)				
	2	In Ground Floor	17.00	Sqm		
10		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trawl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)				
	2	40mm thick	70.00	Sqm		



11		Flooring with following <b>ceramic tiles of following size</b> laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)				
		Self Designed Colour Ceramic Tiles- 305 x 305 x 6 mm	7.00	Sq.m		
12		<b>Dadoing walls</b> with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.				
		Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm	30.00	Sq.m		
13		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	20.00	Rm		
14		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	310.00	Sq.m		
15		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	3.00	Sq.m		
16		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	210.00	Sq.m		

17		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	100.00	Sq.m		
18		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	8.00	Sq.m		
19		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	85	Sq.m		
20		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	30	Cu.m		
21		Fabrication and erection of Pre engineered building steel structure. Trusses,"c" Purlin, laying of PP - galvanised iron steel. Steel structure materials using TATA plate/ JSW plates as per IS 2062 grade. Frame type - Clear span rigid. purlin section, 180x60x20x2. TATA make roof .45 mm PPGL including canopy, Louver, Ventilator, Turbo exhaust. One coat of Zinc chromite yellow primer and 2 coat of enamel paint for PEB.supply &fixing of bare galvalum roofing sheet 0.47mm TCT;550MPa,150GSM;JSW bare galvalum sheets.erection in line,level,alignment, screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment.				
a		galvalume sheet roof with perlines etc,	90	sq.m		

22		<b>Solid PVC door shutters</b> using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter.			
		pvc doors with frames	8	sq.m	
		<b>Total</b>			

Name of Work: Construction of Office						
Bill of Quantities						
Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	100.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	30.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	30.00	cu.m		
4		Supplying and filling <b>GRAVEL</b> in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted -1m <sup>3</sup> etc., complete complying with standard specification.	70.00	cu.m		
5		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	30.00	cu.m		
6	2	Supplying and erecting <b>steel centering</b> including necessary supports for plane surfaces for Reinforced Cement Concrete works such as <b>column footings, column pedestals, plinth beams, grade beams, staircase steps, etc.</b> which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	25.00	sq.m.		

7		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specifaciton. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	160.00	sq.m.		
8		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
a	2	In foundation and basement	2.60	cu.m		
b	2	In Ground floor	30.00	cu.m		
9	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire) Fe500 is a grade of High Strength. make of SAIL / Vizak as per IS 1786:2008.	43.00	Qtl		
10		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specifiction.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	9.00	cu.m		
b		In Ground floor	48.00	cu.m		
c		In First floor	10.00	cu.m		
11		<b>Brick partition walls</b>				

12		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)				
	2	In Ground Floor	61.00	Sqm		
13		Paving the floor with best quality <b>Verified Tiles of size 600 x 600 x 8mm</b> of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	90.00	Sq.m		
14		Flooring with following <b>ceramic tiles of following size</b> laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)				
		Self Designed Colour Ceramic Tiles- 305 x 305 x 6 mm	10.00	Sq.m		
15		<b>Dadoing walls</b> with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.				
		Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm	31.00	Sq.m		
16		<b>Weathering course in brick jelly lime concrete</b> using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.				
a		In Ground Floor	7.50	cu.m		

17		<b>Finishing the top of roof</b> with one course of <b>machine pressed tiles</b> following size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers				
		Pressed Tiles of 230mm x 230mm x 20mm	100.00	Sq.m		
18		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	15.00	Rm		
19		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	680.00	Sq.m		
20		<b>Special ceiling plastering</b> and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, fascia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) <b>10mm thick</b> including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	100.00	Sq.m		
21		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	50.00	Sq.m		
22		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	370.00	Sq.m		

23		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	310.00	Sq.m		
24		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	27.00	Sq.m		
25		providing <b>anti termit</b> treatment to soil adjacent and building foundation, plinth periphery of the building by application of chemicals as per IS 63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below. including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc., complete and as directed by the departmental officers.	115	Sq.m		
26		<b>RR masonry</b> in cm 1:5 (one cement, five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc., complete complying with standard specification.	45	m3		



27		<p>Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.</p>	5	sq.m		
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28		<p>fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face</p>	13	sq.m		
29		<p><b>Solid PVC door shutters</b> using 19 Gauge 19 mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter. pvc doors with frames</p>	9	sq.m		

30		<p>Fabricating Supplying and fixing in position of aluminium anodised natural colour matt finish <b>entrance door</b> of 2.77 x 2.10 m size with fixed glazing at one side of door and double leaves door of size 1.80 m x 2.10m with half panelled with 12mm thick bothside prelaminated partile board at bottom and half glazed using 5.50mm thick Plain glass at top double leaves door with 10mm size aluminium grill. The outer frame shall be with aluminium box section 101.60x44.45x3.18m at 2.319kg/m and Shutter frame made of section with Vertical &amp; Top rail: 50x 44.45x 2.50mm @ 1.292 kg/m, Bottom rail: 100x44.45x2.50mm@ 1.974 kg/m, Lock rail : 50x44.45x2.5mm @ 1.292 kg/m, Alu. Clips: 17.15x17.27x1.50mm @ 0.176 kg/m, Alu. Handle: 100x30mm @ 0.988 kg/m and Inner Frame of section 63.50x38x3 mm @1.72 kg/m and necessary accessories such as rubber beading PVC felt, handle for a length of shutter (both sides), locking arrangements, furniture fittings such as aluminium tower bolts-250x12mm - 2 No, aluminium tower bolt 200x12mm - 1No., aluminium door stopper with rubber bush - 2Nos., lock-1No., floor spring as per BIS standards including cost of all materials, labour charges and power consumption charges required for fabrication including chipping dismantling and making holes to the required extent in RCC in column/beam/masonry with power drill wherever neccessary and redoing the damaged portion to the original condition after fixing etc. omplete. All condition in accordance with ISI specification 1868 / 1962 oranodic film thickness of not less than 15 microns. .Aluminium sections and furniture fittings shall be got approved by the Executive Engineer incharge.</p>				
		entrance door	8	sq.m		

31		Supplying fabricating and fixing in position of Aluminium anodized natural colour matt finish openable type glass window Four leaves in all floors having the following Aluminium section such as outer frame of section (418/code) of 37.70x33mmx2mm @ 0.50kg/m, central mullions of (code 9153,2.50mm thick) 59x33x2.5mm @ 0.936kg/m,Z section of having 21mm 24.50mm vertical and width of 33mm @ 2.50mm thick.Confirming to code No 4152@0.525kg/m Aluminium clips of 3.60 length having total weight of 0.40kg or 0.109kg/m.with neccessary accssories such as rubber beadings, special hinges, handle including supplying and fixing 4mm thick plain glass including cost of all materials, labours, power consumption required for fabrication, drilling holes in RCC column slab, masonry walls wherever necessary with power drills to the required extent and make good to the original conditons after fixing and also as directed. All the Aluminium sections are to the anodised with matt finish under electrically controlled conditons in accordance with Is 1868/1962 for an average anodic film thickness of 15 microns etc.Complete.				
		al window	7	sq.m		
32		Supplying, fabricating and fixing inposition <b>Aluminium anodised natural colour matt finish louvered ventilator</b> size 600mm x 600 mmof with outer frame section with 62x38x2mm at 1.174 kg/m and the louvered with moving arrangements made with aluminium channel of size 60x30x4mm @ 1.274 kg/m ALuminium clips 19.05x17.27/11.05x0.075mm @ 0.169kg/m with necessary 4mm thick plain glass panel for louvers including cost of all materials, labour and power required for fabrications, chipping dismantling making holes in RCC, masonry and made good to the original condition after fixing etc., complete. The Aluminium surface is to be anodised with matt finish under electrically controlled condition in accordance with ISI specification 1868/1962 for anodic film thickness of notless than 15 Microns,etc., complete. loover ventilator	1	sq.m		
33		Supplying and fixing MS grills	630	Kg		
34		Supplying and fixing Aluminium sliding Window	10	sq.m		
35		SS Hand rails	5.5	Sq.m		
		<b>Total</b>				

Construction of labour shed						
Bill of Quantities						
Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	72.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	20.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	30.00	cu.m		
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	12.00	cu.m		
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificalton. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	30.00	sq.m.		

6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
	2	In foundation and basement	3.00	cu.m		
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	3.00	Qtl		
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	7.00	cu.m		
b		In Ground floor	52.00	cu.m		
9		<b>Brick partition walls</b>				
		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)				
	2	In Ground Floor	11.00	Sqm		
10		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trawl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)				
	2	40mm thick	64.00	Sqm		

11		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	20.00	Rm		
12		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	510.00	Sq.m		
13		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	3.00	Sq.m		
14		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	300.00	Sq.m		
15		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	215.00	Sq.m		
16		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	60.00	Sq.m		

17		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	110	Sq.m		
18		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	40	sq.m		
19		supplying &fixing of steel of <b>rolling shutter</b> made up of 19G (1.00mm) CRCA deep corrugated lath interlocked to make one screen with flange type roll formed 12G bottom plate reinforced with 35*35*%mm L angle and locking arrangements on both sides fixed with 6mm brackets, ball bearing pulley and gear box arrangement with manual chain drive lifting,fixed with roll formed 12G 3" guide channel,22G top cover with fixing cleats and complete with one coat zine chromate yelloow prinmer				
		Rolling Shutter	10	sq.m		



20	<p>Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.</p>	15	sq.m		
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21		<p>fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face</p>	7	sq.m		
22		supply & fixing of bare galvalume roofing sheet 0.47mm TCT; 550MPa, 150GSM; JSW bare galvalume sheets. erection in line, level, alignment, screws, washers, scaffolding with perlines, cranes, and completing all with necessary tools & equipment.				
a		galvalume sheet roof with perlines etc,	110	sq.m		
23		<p><b>Solid PVC door shutters</b> using 19 Gauge 19 mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter.</p>	5.5	Sq. m		
		<b>Total</b>				

## Name of Work: Construction of Security Room

### Bill of Quantities

Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	12.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	3.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	2.00	cu.m		
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	2.00	cu.m		
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaition. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	15.00	sq.m.		

6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
	2	In Ground floor	2.00	cu.m		
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	2.20	Qtl		
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	1.50	cu.m		
b		In Ground floor	6.00	cu.m		
9		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)				
	2	40mm thick	7.00	Sqm		
10		<b>Weathering course in brick jelly lime concrete</b> using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.				
a		In Ground Floor	0.35	cu.m		

11		<b>Finishing the top of roof</b> with one course of <b>machine pressed tiles</b> following size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers				
		Pressed Tiles of 230mm x 230mm x 20mm	7.00	Sq.m		
12		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	5.00	Rm		
13		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	60.00	Sq.m		
14		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	10.00	Sq.m		
15		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	36.00	Sq.m		
16		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	34.00	Sq.m		

17		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	3.00	Sq.m		
18		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	7	Sq.m		
19		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	9.5	sq.m		

20		<p>Fabricating Supplying and fixing in position of aluminium anodised natural colour matt finish <b>entrance door</b> of 2.77 x 2.10 m size with fixed glazing at one side of door and double leaves door of size 1.80 m x 2.10m with half panelled with 12mm thick bothside prelaminated partile board at bottom and half glazed using 5.50mm thick Plain glass at top double leaves door with 10mm size aluminium grill. The outer frame shall be with aluminium box section 101.60x44.45x3.18m at 2.319kg/m and Shutter frame made of section with Vertical &amp; Top rail: 50x 44.45x 2.50mm @ 1.292 kg/m, Bottom rail: 100x44.45x2.50mm@ 1.974 kg/m, Lock rail : 50x44.45x2.5mm @ 1.292 kg/m, Alu. Clips: 17.15x17.27x1.50mm @ 0.176 kg/m, Alu. Handle: 100x30mm @ 0.988 kg/m and Inner Frame of section 63.50x38x3 mm @1.72 kg/m and necessary accessories such as rubber beading PVC felt, handle for a length of shutter (both sides), locking arrangements, furniture fittings such as aluminium tower bolts-250x12mm - 2 No, aluminium tower bolt 200x12mm - 1No., aluminium door stopper with rubber bush - 2Nos., lock-1No., floor spring as per BIS standards including cost of all materials, labour charges and power consumption charges required for fabrication including chipping dismantling and making holes to the required extent in RCC in column/beam/masonry with power drill wherever necessary and redoing the damaged portion to the original condition after fixing etc. complete. All condition in accordance with ISI specification 1868 / 1962 anodic film thickness of not less than 15 microns. Aluminium sections and furniture fittings shall be got approved by the Executive Engineer in charge.</p>				
		entrance door	4.5	sq.m		

21		Supplying fabricating and fixing in position of Aluminium anodized natural colour matt finish openable type glass window Four leaves in all floors having the following Aluminium section such as outer frame of section (418/code) of 37.70x33mmx2mm @ 0.50kg/m, central mullions of (code 9153,2.50mm thick) 59x33x2.5mm @ 0.936kg/m,Z section of having 21mm 24.50mm vertical and width of 33 mm @ 2.50 mm thick.Confirming to code No 4152@0.525kg/m Aluminium clips of 3.60 length having total weight of 0.40kg or 0.109kg/m.with neccessary accssories such as rubber beadings, special hinges, handle including supplying and fixing 4mm thick plain glass including cost of all materials, labours, power consumption required for fabrication, drilling holes in RCC column slab, masonry walls wherever necessary with power drills to the required extent and make good to the original conditons after fixing and also as directed. All the Aluminium sections are to the anodised with matt finish under electrically controlled conditons in accordance with Is 1868/1962 for an average anodic film thickness of 15 microns etc.Complete.				
		al window	4	sq.m		
		<b>Total</b>				



**Name of Work: Construction of Driver room**

**Bill of Quantities**

Item No.	Quantity	Description	Quantity	Unit	Rate in Figures and Words	Amount
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	30.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	8.00	cu.m		
3	2	<b>Refilling with excavated earth other than sand</b> with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	4.00	cu.m		
4		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	7.50	cu.m		
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificalton. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	14.00	sq.m.		

6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
	2	In Ground floor	1.50	cu.m		
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	1.65	Qtl		
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	2.50	cu.m		
b		In Ground floor	18.00	cu.m		
9		Providing <b>granolithic floor finish</b> of the following thickness with plain cement concrete 1:2:4 (One Cement, Two sand and Four aggregate) <b>using 10 to 12mm gauge hard broken stone jelly</b> including laying, finishing and the top rubbed smooth with power trowl, thread lining, curing etc. complete complying with standard specification and as directed by the departmental officers. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers)				
	2	40mm thick	20.00	Sqm		
10		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	90.00	Sq.m		

11		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	90.00	Sq.m		
12		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	12.00	Sq.m		
13		providing <b>anti termit</b> treatment to soil adjacent and building foundation,plinth periphery of the building by application of chemicals os IS63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specificaionas below.including breaking of termite mounds,making holes with crow bar,closing the holes after the treatment and including cost of chemicals,labour charges,transport and storing etc,complete and as directed by the departmental officers.	23	Sq.m		
14		<b>RR masonry</b> in cm 1:5 (one cement,five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc.,complete complying with standard specification.	14	sq.m		

15		Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.	4.5	sq.m		
16		supply &fixing of bare galvalume roofing sheet 0.47mm TCT;550MPa,150GSM;JSW bare galvalume sheets.erection in line,level,alignment ,screws,washers ,scaffolding with perlines,cranes,and completing all with necessary tools & equipment.				
a		galvalume sheet roof with perlines etc,	23	sq.m		
17		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	180	Sq. m		
		<b>Total</b>				

**Name of Work: Construction of Genset room**

**Bill of Quantities**

<b>Item No.</b>	<b>Quantity</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate in Figures and Words</b>	<b>Amount</b>
1	2	<b>Earth work excavation for foundation</b> in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	70.00	cu.m		
2	2	Supplying and filling in foundation, basement, etc with <b>filling sand</b> in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	30.00	cu.m		
3		<b>Cement Concrete 1:4:8</b> (One Cement, Four sand and eight hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	16.00	cu.m		
4		<b>Plain Cement Concrete 1:2:4</b> (one	8.00	cu.m.		
5		Supplying and erecting <b>centering for sides</b> and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaliton. (Payment for centering shall be given after the concrete is laid)				
	2	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	125.00	sq.m.		

6		<b>Cement Concrete 1:1-1/2:3</b> (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
	2	In Ground floor	16.00	cu.m		
7	2	Supplying, fabricating and placing in position <b>Mild Steel / Ribbed Tor Steel grills for all RCC works</b> as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	18.00	Qtl		
8		Brick work in following Cement Mortar using best quality of <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> for foundation and basement including curing, etc., complete complying with standard specification.				
		<b>In Cement Mortar 1:5 (one cement and five sand)</b>				
a		For foundation & basement	6.00	cu.m		
b		In Ground floor	45.00	cu.m		
9		<b>Brick partition walls</b>				
		Brick partition walls of 10.80cm thickness using best quality <b>country bricks of size 8-3/4" x 4-1/4" x 2-1/4"</b> in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)				
a	2	In Ground Floor	6.00	Sqm		
10		Flooring with following <b>ceramic tiles of following size</b> laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)				
		Self Designed Colour Ceramic Tiles- 305 x 305 x 6 mm	2.50	Sq.m		

11		<b>Dadoing walls</b> with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.				
		Dadoing with printed design colour glazed tiles of size 300mm x 200mm x 6mm	8.00	Sq.m		
12		<b>Weathering course in brick jelly lime concrete</b> using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.				
a		In Ground Floor	7.00	cu.m		
13		<b>Finishing the top of roof</b> with one course of <b>machine pressed tiles</b> following size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers				
		Pressed Tiles of 230mm x 230mm x 20mm	95.00	Sq.m		
14		Supplying and fixing in position best approved of BIS quality <b>PVC rain water down fall pipes</b> having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
		<b>160 mm dia (In building with ground floor only)</b>	20.00	Rm		
15		<b>Plastering with Cement Mortar 1:5</b> (One cement and Five sand), <b>12mm thick</b> in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	530.00	Sq.m		

16		<b>Special ceiling plastering</b> and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, facia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) <b>10mm thick</b> including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	86.00	Sq.m		
17		<b>Plastering the surface of walls with Cement Mortar 1:3</b> (One cement and Three sand), <b>12mm thick</b> in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	95.00	Sq.m		
18		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint interior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	355.00	Sq.m		
19		<b>Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint exterior works</b> of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	270.00	Sq.m		
20		Painting <b>new iron works</b> such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)				
		<b>Two coat with primer</b>	30.00	Sq.m		
21		providing <b>anti termit</b> treatment to soil adjacent and building foundation, plinth periphery of the building by application of chemicals as per IS 63613 part 1 to 4 in stages to suit the progress of work consist as per the detailed specifications below. including breaking of termite mounds, making holes with crow bar, closing the holes after the treatment and including cost of chemicals, labour charges, transport and storing etc, complete and as directed by the departmental officers.	100	Sq.m		
22		<b>RR masonry</b> in cm 1:5 (one cement, five sand) using best Rough stones from approved quarry including cost of conveyance of all materials to site loading and unloading charges for mixing laying and curing etc., complete complying with standard specification.	36	m3		



23		<p>Manufacturing supplying and fixing of <b>steel door</b> with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.</p>	8	sq.m		
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24		fabricating, Supplying and fixing in position of <b>steel windows</b> (Four Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly. 2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are rivetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 kg/ m MS flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS flat of 18x5mm at 0.70kg/m, welded to the shutter at two place equivalent from each from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face	6.5	sq.m		
25		<b>Solid PVC door shutters</b> using 19 Gauge 19 mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter. pvc doors with frames	2	sq.m		
		<b>Total</b>				

## PRICE BID

(Amount in Rs.)

Description	Basic Amount	SGST	CGST	IGST	Total Price including taxes
<b>Construction of work shed building for Tufted mat</b> as per drawing and BoQ given in Annexure I					
<b>Construction of work shed building for Geo Textiles</b> as per drawing and BoQ given in Annexure I					
<b>Construction of Boiler room</b> as per drawing and BoQ given in Annexure I					
<b>Construction of Office room</b> as per drawing and BoQ given in Annexure I					
<b>Construction of Labour shed</b> as per drawing and BoQ given in Annexure I					
<b>Construction of Security room</b> as per drawing and BoQ given in Annexure I					
<b>Construction of Driver room</b> as per drawing and BoQ given in Annexure I					
<b>Construction of Genset room</b> as per drawing and BoQ given in Annexure I					
<b>Grand Total</b>					

**Amount in Words:** Rupees \_\_\_\_\_ only

**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)

**CHECKLIST OF DOCUMENTS****Documents to be enclosed in Part-I:**

S.No	Checklist	Enclosed (Yes/No)	Reference in the Bid (Page No.)
1.	A covering letter on your letter head addressed to M/s.Cocobi Producer Company Limited, No.13, Dharapuram Road, Anna Nagar, Negamam, Pollachi Tk, Coimbatore – 642 120 (as per Annexure-II)		
2.	Tender conditions duly signed in each page and enclosed in token of accepting the Tender conditions		
3.	Demand Draft for Rs.2.00 lakhs (Rupees Two Lakhs only), in favour of “Cocobi Producer Company Limited – TRA, Hard Interventions”, payable at Coimbatore, towards Earnest Money Deposit.		
4.	Authorization letter from the Company for the person to sign the tender		
5.	Details of the Tenderer (as per Annexure-III)		
6.	Average annual turnover statement duly certified by a Chartered Accountant (as per Annexure-IV)		
7.	List of Building construction works executed in last 3 years as per (Annexure-V)		
8.	Declaration for not having black listed by any other Govt. agencies (as per Annexure-VI)		
9.	Declaration for not having tampered the Tender documents downloaded from the websites www.tenders.tn.gov.in or www.itcot.com (Annexure-VII).		
10.	The copy of certificate of incorporation/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		

S.No	Checklist	Enclosed (Yes/No)	Reference in the Bid (Page No.)
14.	Valid Registration Certificate from PWD / CPWD / Highways department		
15.	Work Orders issued by the clients		
16.	Performance certificate issued by the clients		
17.	The Annual Report / certified copies of Balance Sheet, Profit & Loss statement along with schedules for the last 3 consecutive financial years FY 2016-17, 2017-18 and 2018-19.		
18.	Latest I.T return		
19.	Notarized translated English version of the documents in a language other than English/Tamil, if any		

**Documents to be enclosed in Part-II**

S.No	Checklist	Enclosed (Yes/No)
1.	A covering letter on your letter head addressed to M/s.Cocobi Producer Company Limited, No.13, Dharapuram Road, Anna Nagar, Negamam, Pollachi Tk, Coimbatore – 642 120 (as per Annexure-VIII)	
2.	Price Bid as per Annexure- IX 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 “Re-Tender for the construction of Work shed buildings and amenities for Negamam Coir Cluster, Coimbatore” and addressed to **“M/s.Cocobi Producer Company Limited, C/o. District Industries Centre (DIC), No.2, Raja Street, Town Hall, Coimbatore - 641001, Tamilnadu”**, containing the name and address of the Tenderer.

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