<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

REQUEST FOR PROPOSAL

- 1. Sealed Tenders(Combined Tender) in a Two Bid System affixing a Court Fee Stamp of Rs. 25/- is invited by the Director of School Education & Literacy, Meghalaya under the Department of Education, Government of Meghalaya from Prospective Bidders for Supply of:
 - (A) Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments,
 - **(B)** Furniture for Science Laboratories and
 - (C) Civil Works for Science Laboratories (for 23 numbers of Secondary/Higher Schools in the State of Meghalaya through open Tender.
- 2. This tender shall be evaluated under the two stage-bid system, i.e., through evaluation of prequalification bid, technical and financial proposals/ bids. Along with submitting requisite documents in the technical bid, the bidders shall also have to make a presentation on their Technical Proposals to be considered eligible for opening of their financial proposals/ bids.
- 3. Pre-Qualification, Technical& Financial Evaluation of the Tender Documents would be evaluated by a committee duly constituted by the Director of School Education & Literacy, Meghalaya.

Sl. No.	Particulars	Details	
1	Tender Notice No	DSEL/SEC-B/Misc/3/2015	
2	Description of work	For Supply of (A)Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments, (B) Furniture for Science Lab and (C) Civil Works (for 23 number of Secondary/Higher Schools in the State of Meghalaya	
3.	Cost of Tender Document	Rs.5000 /- non-refundable, in the form of Demand Draft/ BG in favor 'The Director of School Education & Literacy Shillong, Meghalaya''.	
4.	Earnest Money Deposit	Rs.200000 /- non-refundable, in the form of Demand Draft/ BG in favor 'Director of School Education & Literacy Shillong, Meghalaya.'	
5.	Date & Time of Sale of Tender	27 th September 2017	
6.	Last date for Sale of Tender Document	24 th October 2017	
7.	Pre-Bid Meeting	10 th October 2017	
8.	Last date of submission of Tender Document	25 th October 2017 before 12:00 pm	
9.	Opening of Tenders(Technical Bid)	25 th October 2017 at 3:00 pm	
10.	Opening of Financial Bid(only for qualified bidders)	To be Notified	

Copy of Tender documents may please be purchased from Office of the Director of School Education & Literacy, on payment of **Rs.5000**/-or downloaded from the Department's website www.megeducation.gov.in and the Cost of tender document along with EMD mentioned above may please be deposited in the form of 'demand draft / 'pay order'/Receipt in favour of 'The Director of

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,

Ph-0364-2226062, 2225083/Fax: 0364-2226062

School Education & Literacy Shillong, Meghalaya", Payable at Shillong. Please write the name of company on the reverse side of the 'Demand Draft'/'Pay order'/Receipt. Please note that the downloaded tender document is subject to verification with original document as given in the Website

The Director of School Education & Literacy, reserves the right to reject any or all the tenders without assigning any reason.

Note: Any changes or any further notifications in respect to the above Tender document shall be made available only at the above mentioned website. Hence respective vendors are advised to visit the website regularly for the above purpose.

INDEX

Sl No	<u>Items</u>	Page Number
1	Introduction	3
2	Tender Guidelines and Definitions	3
3	Price Schedule	3
4	Eligibility Criteria	4
5	Submission of the Bid	5-6
6	Opening of Bids	7
7	Venue of Tender Opening	7
8	EMD Amount	7
9	Performance Security Bond(PSB)	7-8
10	Price Schedule	8
11	Time schedule for completion of supply	8
12	Technical Evaluation	8
13	Financial Evaluation	8
14	Quality Standards and Samples for Inspection	9
15	Quantity Division	9
16	Supplier responsibility	10
17	Quality Inspection	10
18	Supplier Responsibility	11
19	Failure and Termination	11-12
20	Risk Purchase	12
21	Addendum & Corrigendum	12
22	Taxes, Duties and Levies	12
23	Warranties and Obligations	13
24	Compliance of the Laws of the land	13
25	Documentation requirements	13
26	Termination	13
27	Infringements	13
28	Governing Law; Dispute Resolution	13
29	Force Majeure	14
30	Declaration by the Bidder	14
31	Payment Terms	14
32	General Terms And Conditions	14-15
33	Delivery Schedule & Implementation Schedule	15-16
34	Subcontracting	16

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

35	Annexure I – Detail Technical Specifications	17
	I.1 Science Lab Equipment's	17-27
	I.2 Furniture	28-29
	I.3 Civil Works	30-66
36	Annexure II- Pre-Qualification Bid Checklist	67
37	Annexure III- Technical Bid	68
	III.1Science Lab Equipment's	68
	III.2Furniture	68-69
	III.3Civil Works	69
38	Annexure IV-Financial Bid	70-71
39	Annexure V- Civil Works Compliance Sheet	72
40	Annexure VI-Letter of Undertaking	73
41	Annexure VII- Declaration	74
42	Annexure VIII-Income Tax Return	75
43	Annexure IX- Annual Turnover Statement	76
44	Annexure X- Bid Security Form	77
45	Annexure XI- Performance Security Form	78
46	Annexure XII- List of Schools	79

1. Introduction:

The aim of the Education Department, Government of Meghalaya, is to create better infrastructure and to provide better facilities for universal access to secondary education in all science streams, in the state of Meghalaya. Another important objective is to improve the overall pass percentage and pass results, through uninterrupted and improved accessibility to quality Science Lab equipments. In rural areas majority of students opt for arts subject due to lack of infrastructure in science labs. To promote science education, science labs have been re-constructed through special assistance from the **Intervention for Education Facility Improvement** scheme. To achieve these aims and objectives, it is necessary to provide science equipments, Furniture for Science Lab and Civil Work up gradation in schools, and other required materials in Physics, Chemistry and Biology Laboratories.

2. Tender Guidelines and Definitions:

PO – Purchase Order

Contract – Terms informed in the PO

EMD – Earnest Money Deposit

DD – Demand Draft

PBG - Performance Bank Guarantee

BC – Banker's Cheque

Purchaser - DSEL, Meghalaya

Bidder – Bidders who have submitted Valid Tender Document

Supplier – Successful Bidder (s), to whom, the tender quantity is distributed to

Sample – One piece manufactured / Supplied by the bidder/ catalogue

Bidder – MANUFACTURER or Authorized Trading partner such as dealers / distributors/Suppliers

3. Price Schedule:

Prices shall be quoted as mentioned in Annexure-IV. Price will remain firm and fixed for all supply orders placed during the period of Rate Contract i.e. of minimum 1 year.

4. Eligibility Criteria:

Sl No	Science Equipments	Furniture	Civil Works
1	Client certificates, including Completion Certificate, work order, Customer feedback or supply order of similar nature from Central/ State Govt. Dept. / PSU or Private Limited Company.		
2	Annexure II, III, IV, V, VI, VII, VIII, IX, X& XI should be duly filled and complete in all respects.		
3	Submission of EMD of amount favor 'Director of School Educa be valid for a period of 90 days	tion & Literacy Shil	long Meghalaya. EMD should
4	In case of dealer the bidder shown Dealership certificate from the Cailing to meet the requirements	Company and	Not Applicable
5	Valid Authorization letters (Ten mentioning the above Tender no (in case of dealers) for Supply & Tender.	der specific) o. from the OEMs	Not Applicable
6	Original Equipment Manufactur Certificate.	ers (OEM)	Registered First Class Contractor
7	Manufacturer should be ISO certified for quality standards USFDA/CE/BIS approved		BIS approved Certification
8	A valid Company/Firm Registra	* *	Registered First Class Contractor
9	A valid Trade License Certificat	e for Non-Tribal.	
10	A valid GST Registration Certif	ïcate.	
11	PAN/TIN Card of the firm or of Partnership, Firm etc is registered		name the Proprietorship,
12	Up to date Professional Tax Cle KHADC/JHADC/GHDC	arance Certificate iss	sued by
13	Bidder should have an Average for the last 3 Accounting Years	(Audited) i.e. 2014-2	2015, 2015-16 & 2016-17.
14	The bidder must submit Income (Annexure-) Or ST Certificate for	or Tribal.	<u> </u>
15	Affidavit to be submitted on No that there is no vigilance / CBI (•
16	The Purchaser will notify the successful bidder in writing that its Bid has been accepted and issue Purchase Order (PO) to the successful bidder post signing of contract and Within 7 days of receipt of such intimation, the successful bidder shall give its acceptance to the Director of School Education & Literacy Shillong Meghalaya		
17	The Director of School Education right to reject / cancel any or all assigning any reason thereof.		

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

5. Submission of the Bid:

- (A) The bid should be submitted in a in a sealed cover super-scribed, in a three cover format:
- i. First Cover Envelope (Sealed Cover A) to clearly labeled as "Pre-Qualification Bid f for the Supply of (A) Physics, Chemistry, Zoology ,Botany & Biology Laboratory Equipments, (B) Furniture for Science Lab and (C) Civil Works for 28 numbers of Secondary/Higher Schools in the State of Meghalaya".
- ii. Second Cover Envelope (Sealed Cover B) to clearly be labeled as "Technical Bid for the Supply of (A) Physics, Chemistry, Zoology ,Botany & Biology Laboratory Equipments, (B) Furniture for Science Lab and (C) Civil Works for 28 numbers of Secondary/Higher Schools in the State of Meghalaya".
- iii. Third Cover Envelope (**Sealed Cover C**) to clearly be labeled as "Financial Bid for the Supply of (A) Physics, Chemistry, Zoology ,Botany & Biology Laboratory Equipments, (B) Furniture for Science Lab and (C) Civil Works for 28 numbers of Secondary/Higher Schools in the State of Meghalaya".

All the three envelopes mentioned A - C should be put inside an outer envelope which should be labeled as Bid for Supply of Classroom Furniture of Government Secondary and Higher Secondary Schools in the State of Meghalaya, and clearly mention the Tender reference number and date.

(B) <u>Super scribed Sealed Cover A – Prequalification bid:</u>

- a)Tender Application form duly filled and signed by the authorized person
- b) Tender Fee
- c) Annexure, II, IV, V, VI, VII, VIII, IX & X should be duly filled and complete in all respects
- d) Dealership certificate in case of Dealers (For Science Lab Equipments and Furniture ONLY)
- e) Earnest Money Deposit, EMD
- f) Company/Firm Registration Certificate.
- g) IT returns of last 3 years for Non-Tribal (Annexure-VII) or ST Certificate for Tribal
- h) Turnover of last three financial years.
- i) Excise Duty/Sales Tax/GST registration
- j) Sales Tax clearance certificate.
- k) Professional Tax certificate
- 1) Copy of PAN/TIN.
- m) Trading license for Non-Tribal or ST Certificate for Tribal.
- n) Customer feedback or supply order from Central/ State Govt. Dept. / PSU or Private Limited Company (For Science Lab Equipments and Furniture ONLY).
- o) Work order /Completion Certificate from issued by the authority concerned (from client) clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work must be submitted to establish work experience. (ii). Completion certificates for works issued by Private parties shall be supported by Tax Deducted at Source (TDS) certificates (For Civil Works ONLY).

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,

Ph-0364-2226062, 2225083/Fax: 0364-2226062

- p) Valid Authorization letters mentioning the above Tender no. from the OEMs (in case of dealers) for Supply & Participation in Tender with Dealership certificate (For Science Lab Equipments and Furniture ONLY).
- q) Affidavit to be submitted on Non-Judicial Stamp paper attested by Public Notary that there are no vigilance / CBI Case or arbitration cases pending
 - **If a Non-Tribal becomes a successful bidder he/she has to furnish Trading License from the concerned District Council before any work involving Trade is issued.

(C) Super scribed Sealed Cover B – Technical bid:

- a) Standards and safety certificate
 - i. BIS (Civil Works ONLY)

ISI /USFDA/CE (For Science Lab Equipments and Furniture ONLY)

- ii. Manufacturer ISO certified for quality standards
- b) Containing Annexure wise Technical bid as per format:

Science Lab Equipments (Annexure III and Sub-Annexures)

Furniture (Annexure III and Sub-Annexures)

Civil Works(Annexure III and Sub-Annexures)

(D) Super scribed Sealed Cover C – Financial bid:

Super scribed sealed cover C for -Financial/Price Bid:

Containing Annexure-wise Price Bid as per format (Annexure IV).

Science Lab Equipments (Sub-Annexure)

Furniture (Sub-Annexure)

Civil Works (Sub- Annexure)

Instructions:

- a) The main Cover should be addressed to:
 - The Director of School Education & Literacy, Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Meghalaya
- b) All documents submitted should be properly page numbered, signed and should have appropriate and relevant contents.
- c) Index sheet of each document should be submitted for ease & fast documentations verifications.
- d) Bid documents that do not provide complete information and / or that are submitted after the above specified time shall be rejected.
- e) Bidder should quote their prices in the scheduled format supplied in this tender (Annexure III) form giving the breakup of prices. Tenders received in any other form will not be entertained.
- f) Bidder should sign the certificate provided in the tender form Annexure-V that they have read and understood, all the Terms and Conditions stipulated for in the Tender, and are willing to abide by these tender terms and conditions", before submitting the tender document. Tenders submitted without the Signed declaration certificate will be considered incomplete and will not be considered.

Bid received by the purchaser after the deadline will be summarily rejected by the purchaser.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

6. Opening of Bids:

Bids will be opened in three stages.

(I) Envelope A: Prequalification bid(As per Annexure-II)

(II)Envelope B: Technical bid/specification (As per Annexure-I and III)

(III) Envelope C: Financial/ Price Bid (As per Annexure-IV)

If the envelopes are not sealed and marked as required above, the bid will be subjected to rejection at the tender opening stage itself.

The bid shall be opened in three stages. At the time of opening only first cover (Envelope A) containing the Prequalification bid shall be opened at the first stage and the second cover (Envelope B) containing technical bid shall be opened after qualifying the prequalification round and subsequently (Envelope C) financial bid shall be opened only after qualifying the Technical Bid. The date, time and venue for third stage opening will be intimated separately by the Tender Inviting Authority (TIA) only to selected/ qualified bidders.

The purchaser will prepare the minutes of the bid opening

7. Venue of Tender Opening:

The tender for supply of Science Lab Equipments for schools will be opened in the presence of the bidders or their authorized representatives and Tender Committee Members at the venue mentioned hereunder.

Venue of Tender Opening:

Office of the Director of School Education & Literacy, Laitumkhrah, Shillong-793003, Meghalaya

8. EMD Amount:

Bidder needs to be deposit the EMD Amount of Rupees 2,00,000(Two Lakh only) in favour of the Director of School Education & Literacy, payable at Shillong, Meghalaya.

- (i) The EMD shall be returned back to unsuccessful bidders within a period of eight (8) weeks from the date of execution of the agreement subject to the receipt of a written application addressed to the Director of School Education & Literacy. The return of EMD shall not carry any Interest Component.
- (ii) The E.M.D. / Security Deposit shall liable to be forfeited in the following circumstances when the,
 - a) Tender is rejected due to failure to furnish the requisite documents in the proper format or giving any misleading statement or submission of false affidavit or fabricated docs.
 - b) Party fails to sign the agreement for entering into contract in case the offer is accepted, due to any reason whatsoever.
 - c) Party fails to supply the goods / items as per the orders / R.C. placed by DSEL, Shillong within the delivery period so stipulated.
 - d) Party fails to replace/correct the supplied material / pre-printed stationeries declared to be wrong / different from specification and R.C. holder / successful bidder have to refund the cost of such goods.

9. Performance Security Bond(PSB):

(a) The successful Bidder will liable to deposit 5% of value of the Contract/Purchase Order as Performance Security Deposit in favor of the Director of School Education & Literacy by way of Performance Bank Guarantee in the format given at "Annexure-X"/Fixed Demand Receipt" from nationalized/Commercial Bank refundable after expiry of the contract/or after the completion number of warranty period + 3 months in case of supply of Equipment whichever is higher, subject to successful fulfilment of terms and conditions. Security Deposit/EMD is liable to be forfeited if the bidder withdraws or impairs the bid in any

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

respect. For CMC after expiry of warranty period, the 10% CMC Security Deposit of CMC Value of Equipment shall require to be deposit by the Bidder to the Director of School Education & Literacy Shillong Meghalaya in the format given at "Annexure-XI". Security deposit is for due performance of the agreement. Non submission of Performance security within the specified time shall also lead to forfeiture of the EMD/PSB.

(b) Performance security deposit is retained as a security deposit until the period of work / contract may be found satisfactorily and completed. The Performance security deposit may be refunded on receipt of a written application addressed to the Director of School Education Literacy, Shillong, Meghalaya. Refund of Performance security deposit shall not carry any Interest Component.

10. Price Schedule:

- The price offered in the tender should be as per the structure requested in the Tender document Annexure-IV
- All Quotes shall be in Indian Rupees and duly attested in case of any corrections.
- All freight costs & Transit insurance are to be borne by the bidder
- In case of imports, all duties and any other costs (foreseen or unforeseen) have to be borne by the bidder and to be clearly indicated in the quote
- If more than one bidder has quoted exactly the same price in their bids, and if it has become the Lowest Bid (L1), the decision of the Tender Committee is final to equally distribute the schedule quantity among the L1bidders.

11. Time schedule for completion of supply:

A time limit for delivery of material required will ordinarily be fixed by the authority issuing the work order in, each case, having regard to the quantum, nature and magnitude of the work involved.

12. Technical Evaluation:

- Technical evaluation of the items tendered will be done by a Technical Committee constituted by the Director of School Education & Literacy, Shillong, Meghalaya.
- Specifications for each of the items will be as detailed in the Annexure I.
- Tenders submitted with technical specifications and commercial bid will alone be considered for evaluation.
- The commercial bids of suppliers who are successful in Technical Evaluation only would be considered.
- In case, if Technical Committee is not convinced with any of the bidder's samples with respect to Quality parameters, then it is the Committee's decision to scrap the Tender.
- The decision of the Committee formed by Purchaser would be final.

13. Financial Evaluation:

The financial bids of only those bidders shall be opened who have score at least 80 marks in Technical Evaluation (Final score) for an applicant would be weighted average of technical and financial bids, where the technical and financial proposals will be assigned a weight of 70 and 30 percent respectively, of the total Evaluation.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

14. Quality Standards:

Sl No	Science Equipments	Furniture	Civil Works
	The Suppliers/OEM's are	The Suppliers/OEM's are	The Contractors are to meet the
	to meet the Quality	to meet the Quality	Quality Standards specified in
	Standards specified in the	Standards specified in the	the BIS or any other prevailing
	CE/USFDA/BIS/ISO or	CE/USFDA/BIS/ISO or	Indian Standards. The
1	any other reputed standard	any other reputed standard	evaluation would be done by
1	by the Country of Origin.	by the Country of Origin.	the technical committee at the
	The evaluation would be	The evaluation would be	time of technical evaluation
	done by the technical	done by the technical	
	committee at the time of	committee at the time of	
	technical evaluation	technical evaluation	

Details on Scope of Work:

The scope of work for this RFP will include the following activities:

- 1. Supply of Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments ,Furniture for Science Lab and Civil Works, as per specifications listed out in Annexure I
- 2. Supply of Furniture for Science Lab Civil Works (for 28 numbers of Secondary/Higher Schools in the State of Meghalaya as per specifications listed out in Annexure I).
- 3. Civil Works (for 28 numbers of Secondary/Higher Schools in the State of Meghalaya as per specifications listed out in Annexure I.
- 4. Transportation, Delivery at each individual school & installation of the lab equipments and furniture, as per Annexure XI.

Samples for Inspection:

Science Lab Equipments and Furniture ONLY

- (a) Samples whenever required, for valuation shall be provided by the supplier at free of Cost.
- (b) The products should fulfilling technical specifications as per CE/USFDA/ISO or any other prevailing Indian Standards.
- (c) In case bidder quoted more than one item for a particular item, during Technical round the Tender committee will select one item only according to quality satisfaction & the price bid of the selected item only shall be taken into account.
- (d) The Tender committee has the right to reject any sample in case the sample quality is found unsatisfactory and bidder has no right for any objection.
- (e) The Tender committee has the right to retain all samples till the announcement of technical bid results

15. Quantity Division:

Each Delivery Schedule of Requirement incorporate in the tender enquiry document will be ordered from the Lowest Responsive Bidder (L1). However, it is the purchaser's decision to assess the capacity of theL1 bidder to support the requirement. If L1 refuses to supply and in case of L1 bidders capacity is less than the quantity required, the purchaser has the right to split the order quantity among the other bidders in the order of lowest to the highest bidder as per the provisions of transparency in Tenders Act & Rules, provided the next lowest bidder agrees to match the L1 rate.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

16. Supplier responsibility:

The Supplier shall be entirely responsible for the performance of the contract in all respects in accordance with the terms and conditions as specified in the Contract.

17. Quality Inspection:

- a) For every unit supplied by the supplier, the conformance to the Specifications mentioned in the Tender shall be established by the supplier.
- b) Supplier represents and warrants that it shall fully comply with all written quality assurance requirements or instructions of DSEL, Meghalaya, and as amended from time to time at the sole discretion of DSEL, Meghalaya. Supplier further represents and warrants that the Product supplied by the Supplier in strict compliance with all applicable central, state and local laws.
- c) The supplier shall maintain the highest standard of quality in the Product. Supplier shall follow and abide by all directions, requests, suggestions or instructions of DSEL, Shillong regarding the quality standards required by DSEL, Meghalaya in connection with the manner of Packaging, storage and delivery of the Product.
- d) The supplier shall facilitate in-process and / or Pre-delivery inspection by the Representatives of the Purchaser, as and when, the same is required by the Purchaser
- e) Notification by Supplier In case of inspection at the Supplier's premises, notice in writing shall be sent by the Supplier, sufficiently in advance, to the Purchaser when the items to be supplied, are ready for inspection.
- f) Rejections At delivery, DSEL, Meghalaya in its sole discretion may reject any Product produced or manufactured by Supplier for any reason, including Non-compliance with USFDA/CE/BIS or any other reputed standard, but not limited to defects, or failure to meet quality standards, etc.
 - g) Removal of Rejections Any supplies inspected and rejected at the Purchaser's premises must be removed
 - by the Supplier, within 7 days from date of receipt of intimation of rejection of supplies in case of indigenous suppliers & 28 days in case of foreign suppliers. If the rejected goods have already been paid for (partly or fully), the supplier shall before removal of rejected goods, either deliver correct replacement goods at Purchaser's premises completely free of cost (including cost of goods, freight, taxes, duties etc) or refund the payment received as well as make full compensation for freight taxes, duties etc. Such rejected items shall lie at supplier's risk from the time of such rejections and if not removed within the above time limit, the Purchaser shall have the right to dispose off the said rejected materials as he may deem fit without any financial obligation to the supplier.
- h) If found that the Successful Bidder is incompetent to provide the supply and execute the work as requested, in such a situation, the proposal may be reviewed for award of the contract to the next qualifying bidder or go for a fresh bid depending on the circumstance. No form of compensation shall be payable in any form whatsoever to the forfeited firm. In case it is decided to go for the next qualifying bidder, negotiation maybe considered to bring down their price nearer to the originally Evaluated or Lowest bidder in consideration to the equipment's to be supplied.
- i) Quality control tests and inspections during execution of work, as recommended by relevant IS Code & as per direction of Engineer in charge, shall be done by the Purchaser, as required.

18. Supplier Responsibility:

- The supplier is responsible for the delivery of the goods in satisfactory condition and without any loss or damage at the final destination and until the same is actually received by the Purchaser at its works or other place of final destination. For this purpose, goods carried by the roadway or other carrier shall be deemed to be carried at the risk of the supplier. If on inspection at final destination the Purchaser discovers any discrepancy ,the Purchaser will be entitled (not-with-standing that the property of goods shall have passed on to the company) to refuse acceptance of the goods altogether and claim damages and/or cancel the contract and buy its requirement in the open market at the risk and cost of the supplier, reserving always to itself, the right of forfeiture of any amount found due and payable or the deposit, if any, placed by the supplier for the due fulfilment of the contract as also to recover any amount, if already paid.
- The Contractor for Civil Works shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

19. Failure and Termination:

Should the Supplier fail to deliver the items or any consignment thereof and the execution of the Civil Works, within the period prescribed for such delivery, the Purchaser shall be entitled at his/her option, to the following:

19.1 Delayed Penalty & Liquidity Damage:

(A) Science Lab Equipments & Furniture:

Sl			
No	Scope of Work	Period	Penalty
		Up to 7 Days from	0.25% from the total PO value
1		Delivery Due Date	of Science Lab Equipments and
			Furniture of the respective
	Supply of Science		schools of the Districts
	Equipments &	From 8th day to 15 Day	0.50% from the total PO value
2	Furniture in schools of	After Delivery Due	of Science Lab Equipments and
2	the following districts-	Date	Furniture of the respective
	East Khasi Hills, West		schools of the Districts
	Khasi Hills ,South	From 16th day to 22nd	0.75% from the total PO value
3	West Khasi Hills, West	Day after Delivery Due	of Science Lab Equipments and
3	Jaintia Hills ,East	Date	Furniture of the respective
	Jaintia Hills & Ri-		schools of the Districts
	Bhoi, North Garo Hills	From 23rd day to 30th	1.00% from the total PO value
4	East Garo Hills, South	Day after Delivery Due	of Science Lab Equipments and
4	Garo Hills ,West Garo	Date	Furniture of the respective
	Hills ,South West Garo		schools of the Districts
	Hills	Above 30 Days from	5.00% from the total PO value
5		Delivery Due Date	of Science Lab Equipments and
			Furniture of the respective
			schools of the Districts

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

(A) Civil Works:

Sl No	Scope of Work	Period	Penalty
		Up to 7 Days from	0.25% from the total PO value of
1	Execution/Completion of	Completion Date	Civil Works of the respective schools of the Districts
2	Civil Works in schools of the following districts-East Khasi Hills, West Khasi	From 8th day to 15 Day after Completion Date	0.50% from the total PO value of Civil Works of the respective
	Hills ,South West Khasi	E 161 1 22 1	schools of the Districts
3	Hills, West Jaintia Hills East Jaintia Hills & Ri-	From 16th day to 22nd Day after Completion Date	0.75% from the total PO value of Civil Works of the respective schools of the Districts
4	Bhoi, North Garo Hills ,East Garo Hills ,South Garo Hills ,West Garo	From 23rd day to 30th Day after Completion Date	1.00% from the total PO value of Civil Works of the respective schools of the Districts
5	Hills ,South West Garo Hills	Above 30 Days from Completion Date	5.00% from the total PO value of Civil Works of the respective schools of the Districts

20. Risk Purchase:

If the Supplier fails to deliver the items either in full or in part, within the prescribed delivery period, the

Purchaser shall be entitled at his option to take alternate procurement action, at the risk & cost of the supplier for the unsupplied portion of the goods / items without cancelling the contract in respect of the items not yet due for delivery, or to cancel the contract based on progress of work, including items not due for delivery, and, if thought fit/necessary, to purchase the items at the risk and cost of the Supplier. The price differential in the case of higher cost to Purchaser, if any, shall have to be borne by the defaulting supplier. Moreover the defaulting supplier shall have no claim over the quantity, which they failed to supply.

21. Addendum & Corrigendum:

At any time prior to the date of submission of the Bids, the Tender Inviting Authority may, for any reason whatsoever, whether on his own initiative or in response to a clarification requested by a prospective bidders, modify the Tender Documents by an act of amendment thereafter referred to as an Addendum for Addition & Corrigendum for Correction. All prospective bidders who have received the bid documents will be notified of the Addendum / Corrigendum and that will be binding on them. In order to provide reasonable time to take the Amendment into account, the Tender Inviting Authority may at its discretion extend the date and time for submissions of Bids. The bidders should check for such amendments or Corrigendum on Education Department website. No separate intimation will be issued to them.

22. Taxes, Duties and Levies:

- a) Bidders must clearly mention their Goods and Services Tax (GST), Sales Tax Registration, Excise Control Code Number (ECC) & TIN etc. in their offers and invoices.
- b) Sales Tax / GST, Excise Duty, Countervailing Duty (CVD), etc. shall be clearly mentioned in the offer indicating the applicable rates.
- c) In case if there is a decrease in the Statutory Taxes / Duties / Levies, the same has to be passed to the Purchaser.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

23. Warranties and Obligations:

For Science Lab Equipments & Furniture only

- a) Supplier irrevocably offers warranty of the product or as given by the manufacturer, against any manufacturing defects and contamination of materials.
- b) Supplier represents and warrants that it will use its best efforts to produce and distribute the Product in accordance with the terms and conditions of this Agreement.
- c) Supplier shall be solely responsible for the production and distribution of the Product and will bear all related costs associated therewith, except as otherwise provided in this Agreement.
- d) Replacing the defective items should be done immediately within 5 working days.

24. Compliance of the Laws of the land:

The supplier shall comply with all state and local laws and regulations shall obtain all necessary licensing for the operation of its business and shall further comply with all quality control standards promulgated by DSEL, Meghalaya from time to time.

25. <u>Documentation requirements:</u>

For Science Lab Equipments & Furniture only

A supplier has to send the following documents along with the shipment.

- a) Invoice in original along with two additional copies, both duly signed and stamped by the Supplier.
- b) Original Packing list.
- c) A copy of Purchase order raised by DSEL, Meghalaya

26. Termination:

DSEL and its Tender Committee shall have the right to immediately terminate this Agreement by giving a written notice to the Supplier in the event that Supplier does any of the following:

- I. Fails to supply / execute the order from the date of target delivery date.
- II. Files a petition in bankruptcy or is adjudicated bankrupt or insolvent, or Supplier discontinues its business
- III. Breaches any provision of this Agreement, and fails to cure such breach within seven (7) days after it receives a written notice of breach from the DSEL, Meghalaya.
- IV. DSEL, and its Tender Committee has Right to Terminate without giving any Cause. DSEL, Meghalaya shall have the right to terminate this Agreement by written notice to Supplier.
- V. Upon receipt of the notice of termination from the Purchaser, the Supplier shall either immediately or upon the date specified in the notice of termination, cease all further supplies except for such as the Purchaser may specify in the notice of termination. In the event of termination of the Contract the Purchaser shall only pay to the Supplier, the Price for the parts executed by the Supplier as of the date of termination.

27. Infringements:

The supplier agrees to fully cooperate with DSEL, Meghalaya in the prosecution of any such suit against a third party and shall execute all papers, testify on all matters, and otherwise cooperate in every way necessary and desirable for the prosecution of any such lawsuit.

28. Governing Law; Dispute Resolution:

This Agreement shall be governed by, and construed in accordance with, the laws of the India; without regard to conflict of law principles, and under the jurisdiction of Meghalaya and language shall be English.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

29. Force Majeure:

If at any time during the validity of the Contract, the performance in whole or in part by either party of any obligation under this Contract shall be prevented or delayed by reasons of War, Hostility, Acts of Public Enemy, Civil Commotion(s), Sabotage, Fire(s), Flood(s), Explosion(s), Epidemic, Quarantine Restrictions, Acts of State or Acts of God, hereinafter referred to as eventualities, then the Contract period will get extended for the period of Force Majeure, provided Notice of the happenings of any such eventualities is given, supported by a certificate of appropriate authority or Chamber of Commerce by either party to the other within15 days from the date of occurrence thereof. Neither party shall by reason of such eventualities be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance. Work under this contract shall resume as soon as practicable after such eventualities have come to an end or ceased to exist. Should one or both parties be prevented from fulfilling their contractual obligations by state of Force Majeure lasting continuously for a period of at least three months, the parties shall consult each other regarding further continuation of the Contract.

30. <u>Declaration by the Bidder:</u>

The Bidder shall be required to declare whether the proprietor or any partner of the firm or Director of their company as the case may be, has any relation to any employee working with the Purchaser and if so, give the name of the employee and the relationship.

31. Payment Terms:

Payment will be made after successful execution of the order in totality or postal delivery, inspection, acceptance and Receipts of the Goods. The bidder should submit the bills/invoices with a copy of delivery Challans and Completion Certificate from the Respective Schools—duly acknowledged by the Purchaser and order copy with a satisfactory inspection report of the designated Technical Committee after Delivery and Execution duly signed and accepted should be submitted at DSEL office, Laitumkhrah, Shillong Meghalaya in original. Three copies of each document should be made and one copy handed over to the authority at the delivery site.

32. GENERAL TERMS AND CONDITIONS:

- 1. The Bidder must bid for the complete scope of work, either as a Single Entity or a Joint Venture.
- 2. The Supply of Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments, Furniture and Civil Works should conform to Technical Specifications mentioned in the Annexure and Sub-Annexures.
- 3. Bidders are advised to study the Tender Document carefully. Submission of Tender shall be deemed to have been done after careful study and examination of the Tender Document with full understanding of its implications.
- 4. The bidder shall strictly abide by the time schedule for Supply of Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments, Furniture and Civil Works in the State of Meghalaya as per work order.
- 5. Bidder and Manufacturer should guarantee/warranty that the equipment being offered is the latest model as per the specifications and the spares for the equipment will be available for a period of at least 5 years after the guarantee/warranty period.
- 6. The supplier warrants comprehensively (period as specified in Annexure:I) for Onsite Warranty including Spare parts & Labour etc. that the Equipment/Stores supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

Equipment/Stores supplied under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied Equipment under the conditions prevailing in India.

- 7. The bidder hereby declares that the goods/equipment/stores/articles supplied to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications and the particulars contained/mentioned in the clauses here of and the bidder hereby guarantee/ warranty that the said goods /equipment / stores/ articles conform to the description and quality aforesaid.
- 8. Letter of Undertaking, as per Annexure VI for authorization and verification of authorized signatory in favour of person(s) authorized to sign the tender bid and all correspondence/documents, typed on Company Letter Head, stamped and signed by Proprietor/Partner(s)/Managing Director/Director must be submitted.
- 9. An Affidavit on Non Judicial Stamp Paper of Rs. 10/- (Rupees Ten only) as per Annexure VII stamped and signed by the authorized signatory and duly attested must be submitted
- 10. Check list for Pre Qualification(Annexure II) and Technical Bid(Annexure III) duly filled in stamped and signed by the authorized signatory must be submitted.
- 11. Incomplete and Conditional Tender will not be accepted.
- 12. All the pages of the Tender submitted must be serially numbered, stamped and signed by the authorized signatory.
- 13. The material/apparatus used should conform to ISI norms, where and whenever applicable and available in the market.
- 14. The rate quote should be complete for all items included in the tender list which is annexed in Annexure IV.
- 15. No conditional warranty like mishandling, manufacturing defects etc. will be acceptable
- 16. This Tender document is not transferable.
- 17. The tenders received after the due date and time specified or unsealed or incomplete, or by facsimile or email will be summarily rejected.
- 18. On received of Purchase Order the selected bidder will have to be delivered within 4 weeks of placement of order.
- 19. In the event of responsive parties quoting same rates, the Purchaser will have the right to decide on the allotment of work (Split Tender) to any of the responsive party/ parties without assigning any reasons thereof.
- 20. Single Entity or Joint Venture:
 - If Joint Venture, all partners must be, jointly and severally liable.

33. <u>Delivery & Implementation Schedule:</u>

- a) The table below is the indicative delivery milestone for schools in tranches is provided in table below. Milestones for rest of the schools will be mutually decided between the Department of Education and the successful supplier. The vendor will be provided with the exact details of schools (in lots of 10) from Department of Education.
- b) The bidder may conduct site visit before the submission of bid at its own cost in order to ascertain the site condition, connectivity, etc.

Science Lab Equipments & Furniture:

Sl No	Milestone	Timeline
1	Signing of Contract	T=0
2	Supply of Science Equipments & Furniture in schools of the following districts-East Khasi Hills, West Khasi Hills ,South West Khasi Hills , (7 schools)	T+2
3	Supply of Science Equipments & Furniture in schools of the following districts-West Jaintia Hills ,East Jaintia Hills & Ri-Bhoi, (7 schools)	T+4
4	Supply of Science Equipments & Furniture in schools of the following districts- North Garo Hills ,East Garo Hills ,South Garo Hills ,West Garo Hills ,South West Garo Hills , (9 schools)	T+8

Civil Work:

Sl No	Milestone	Timeline
1	Signing of Contract	T= 0
2	Execution/Completion of Civil Works in schools of the following districts-East Khasi Hills ,West Khasi Hills ,South West Khasi Hills ,(7 schools)	T+4
3	Execution/Completion of Civil Works in schools of the following districts-West Jaintia Hills ,East Jaintia Hills & Ri-Bhoi, (7 schools)	T+6
4	Execution/Completion of Civil Works in schools of the following districts- North Garo Hills ,East Garo Hills ,South Garo Hills ,West Garo Hills ,South West Garo Hills , (9 schools)	T+10

34. <u>Sub-Contracting:</u>

a) Unless otherwise specified in the Contract, the bidder shall not assign or sub-let the following contract / scope of work, whatsoever:

(A) Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments

b) However, the Bidder is permitted, to notify the Purchaser in writing of all subcontracts awarded under the following Contracts:

(B) Furniture for Science Lab and

(C) Civil Works

c) Subcontracting of the contracts above shall in no event relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract for Supply of Physics, Chemistry, Zoology, Botany & Biology Laboratory Equipments.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE I

35. <u>Detailed Technical Specifications:</u>

I.1 Science Lab Equipments: <u>i.Physics:</u>

Sl No	Item	Specifications	Nos per School	Total Nos
1	Voltmeter (0- 3 amp) -	plastic body with terminal , Square type grade A	4	112
2	Ammeter (0 - 3 amp) -	plastic body with Terminal ,Square type grade A	4	112
3	Battery eliminator (0 - 12 volts)	plastic body with indicator	2	56
4	Rheostat (50 ohms) -	170mm ± 5mm, 50 0hms with PVC feet (Aluminium)	2	56
5	One way key - 2	with brass block on plastic base with brass terminals	4	112
6	Connecting Wires (cotton issulation) -	double cloth covered 250gm	4	112
7	Sand paper -	Standard, 60 and 120 number.	4	112
8	Metre bridge & Jockey -	large and heavy copper strip of (SWG No. 18) mounted on a heavy 3/4" thick laminated base of size 45" x 4" x 3/4".	2	56
9	Galvanometer -	30-0-30 plastic body with terminal, Grade A Square type	4	112
10	Resistance box (0.1 - 500 ohms)	Constantan Coil, 9mm Thick Brass Block	2	56
11	Resisitant Wire -	NICHROME WIRE,100gms	2	56
12	Resistance coil - 40 nos (10 each)	2,5,10,20, ohms with brass terminal	2	56
13	Screw gauge - 24 nos	15mm with rachet stop, stainless steel and brass body	2	56
14	Meter Scale - 12 nos	I metre scale wooden Graduation in cm, mm, feet and inch length 1 ,meter	2	56
15	Resistance box (1 - 500 ohms) - 12 nos	plug type 0- 5000 Ohms fitted with brass pluges of plastic heads, contact bloks made of brass which are fitted on bakelite/ hylem/ plastic base. The whole assembly fitted on a appropriate polished wooden box	2	56
16	Potentimeter with jockey - 12 nos	Potentiometer 4 wired Brass Connection with 1 meter rule with pencil jockey & brass terminal fitted on a both side laminated base with plastic feet	2	56

$\underline{\text{OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION \& LITERACY, SHILLONG, MEGHALAYA}}$

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> <u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

17	A set of optical bench (1 1/2 mts) - 6 nos	one meter long, double MS chrome platted rods, four uprights (two having slow transfers motions), two lense holders, two opticals pins & two caste iron heavy metallic feet with levelling screws.	2	56
18	Convex lens (Focal length 10 cm, 15 cm, 20 cm) - 18 nos (6 each)	diameter 2 inch focal length	4	112
19	1/2 Metre Scale - 12 Nos.	Wooden / plastic 12 ' Graduation in cm, mm, feet and inch length 1 ,meter diameter 2"	4	112
20	Prism - 12 nos.	38 mm ± 5mm	4	112
21	Drawing board (35 x 25 cm) - 24 nos	Equilateral soft wood 300x450±10mmx18mm±2mm	4	112
22	Drawing Pins - 6 Packets	With plastic head	4	112
23	Hair pins (Lenght - 7cm) - 10 dozens		4	112
24	Glass slab (13cm x 7cm x 2cm - size) - 12 nos	75mm±5mmx50mm±5mmx12mm±2mm	2	56
25	Travelling Miscroscope - 4 nos	Travel length 165 cm horizontally & 14 cm vertically, provided with SS/Brass scale. Vernier reading 0.02 or 0.01mm, packed in an appropriate plywood polished case	1	28
25	P.N.Junction - 4 nos	(Semi conductor Diode on board)	2	56
26	Connecting Wires in P.N.Junction & zener Diode - 6 pkts		4	112
27	Zener Diode - 4 nos.	apparatus mounted on ABS plastic box fitted with terminals & two meters	2	56
28	Common Emitter n-p-n or p-n-p transistor - 4nos		4	112
29	Three bulbs (25w, 60w, 100w, 40w) - 24 nos.		4	112
30	Three (on / off) switches - 12 nos (6 each)		4	112
31	Flexible wire wit red and black insulation - 1 roll	double cloth covered 250gm	2	56
32	A fuse & fuse wire - 6 nos + 1 roll		4	112
33	Two pin plug - 12 nos		4	112
34	Diode - 24 nos		4	112
35	L.E.D24nos		4	112
36	Transistor - 24 nos	Apparatus mounted on ABS plastic box fitted with terminals & two meters	4	112

I.C. - 24 nos 56 Resistor - 24 nos 112 38 4 39 Capacitor - 24 nos Assorted (Pack of 25) 4 112 Multimeter - 4nos 40 Digital (Imported) Economical 4 112 41 Plane mirror - 12 nos 4 112 Plumb Line - 24 nos (Made of brass chrome plated std lab 42. 4 112 size) Concave Mirror (Focal diameter 2" 44 4 112 LENGHT-20CM) 12 NOS Candle - 12 pkts 45 56 Lycopodium Powder - 4nos 46 2 56 47 Leclanche cell (components) - 6 comprising of a plastic jar, one piece filled porous pot and one zinc rod with 4 112 terminals 48 Daniel cell (Components) -(copper vessel) (Copper vessel of 150 $\times 100$ mm (± 510 mm) with perforated shelf, thick zinc rod of size, 150 × 4 112 10mm(With brass terminal, porous spot of size 140×50mm diameter) Two way key - 12 nos brass block on plastic base with brass 49 4 112 terminals two meter & operational manual fitted 50 Ohm's Law Apparatus - 6 nos 2 56 on a ABS plastic box 125mm approx. Chrome plated 52 Vernier Callipers - 24 nos 4 112 Spherical body (Marbles) - 48 53 4 112 Wooden Black (known Mass) -54 Wooden Block with hook. Teak wood, 4 112 48 nos Superior thick 2 cm x 5 cm x 5 cm Glass Beaker (50 ml) - 24 nos (borosilicate glass) 55 4 112 Calorimeter - 12 nos in wooden box 56 4 112 Resistance wire - 2 rolls 57 4 112 59 Half Meter scale - 6nos 4 112 60 Glass Sheet (1 cm square) - 24 4 112 61 Spherometer - 12 nos brass dial head 40mm dia, stainless steal, head divided in 100 divisions reading 4 112 upto 0.005 mm, vertical scale 10-0-10 62 Glass Sheet (6 cm square) - 12 4 112 Iron stand with base and clamp 4 112 - 12 nos Penulum bob - 12 nos 64 4 112 Stop clock - 12 nos metal body with start stop & fly back 65

in 0-60 x 1 sec

action, dial size approx. 100mm, divided

4

112

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> <u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

66	Physical Balnce - 6 nos	with light brass beam, 7 agates, teek wood polished showcase, capacity 250 gm, sensitivity 1 mg	2	56
67	Weight box - 6 nos	10g 20g 50g 100g 200g 500g Two each with forceps	4	112
68	Parallelogram law of forces apparatus - 4 nos		2	56
69	Youngs modulus apparatus - 4 nos	searles pattern having self centring chucks, graduated micro meter srew to read upto 0.1 mn, made of iron duly powder coated	2	56
70	Hooks law apparatus - 4 nos	Consisting of 30cm long mirror scale, spring, slotted weights with hanger and pointer, complete on heavy tripod stand.	2	56

ii. Chemistry:

Sr. No.	Name of Item along with Specification	No per School	Total Nos
1	Air Condensor Liebig Tip Interchangeble joint and inter changeble	2	
1	outer joint300mm		56
2	Beakers 100ml (borosilicate glass)	25	700
3	Beakers 250ml (borosilicate glass)	25	700
4	Beakers 500ml (borosilicate glass)	5	140
5	Beakers 1000ml (borosilicate glass)	2	56
6	Burette 50 ml (borosilicate glass)	25	700
7	Burner (Bunsen)with stop cork made of thik brass tube chrome	8	
/	plated screw type air regulator Painted		224
8	base 150mm hight app.		0
9	Blow Pipe 8"	5	140
10	Bottel Brush (Medium)	5	140
11	Chart Periodic Table(75x100cm+/-2cm)both side laminated with	1	
11	plastic roller		28
12	Chart Colour PH (75x100cm+/-2cm)both side laminated with	1	
12	plastic roller		28
13	China Dish 3" porceline	5	140
14	China Dish 5" porceline	5	140
15	Charcoal Block 4"x1" pk of 12 pc	5	140
16	Capillary Tube Both side open pk of 100pc	1	28
17	Conical Flask 250ml (borosilicate glass)	25	700
18	Conical Flask 500ml(1000 ml,2000ml,3000ml)(borosilicate glass)	5	140
		5	140
		5	140
		1	28
19	Rubber Cork No 2,3,4,5,6,7,8 pk of 5pc each	1	28
		1	28
		1	28

		1	28
		1	28
		1	28
		1	28
20	Paper Chromatography cabinet made of singal piece bakelite moulding the inner size of cabinet 1A 5x3x7.5 inch + 2mm with front side glass door with stainless steel solvent pt having working capacity of 50 ml with S.S. Hanger, chromatography paper 10x18cm, pk of 10 sheets, glass sprayer glass syringe, TLC, capillary	1	28
21	Balance Electronic Digital cap.750gm L.C.100mg	1	28
23	Distilled water 5lit	2	56
24	Funnel 50mm (borosilicate glass)	5	140
25	Funnel 100mm (borosilicate glass)	5	140
26	Filter paper No. 1 Dia 12.5 cm superior pack of 100 circles	5	140
27	Funnel Stand Plastic 100mm dia	2	56
28	Fusion Tube 2.5" (Ignition) tube pk of 144pc	2	56
29	Glass Tube 7mm 1kg pack (borosilicate glass)	1	28
30	Glass rod 8"	10	280
31	Pipette Serological Graduated 10ml (borosilicate Glass)	5	140
32	Kipps apparatus Plastic Cap 250ml(approx.)	2	56
33	Measuring cylinder 10 ml (borosilicate glass)	4	112
34	Measuring cylinder 50 ml (borosilicate glass)	4	112
35	Measuring cylinder 100 ml (borosilicate glass)	4	112
36	Measuring cylinder 500 ml (borosilicate glass)	2	56
37	Measuring cylinder 1000 ml (borosilicate glass)	2	56
38	Pestal & Motor 4" porcelain	2	56
39	Wash Bottle 250ml. Plastic	5	140
42	Pipette Singal mark 20ml and 25 ml (borosilicate Glass)	25	700
43	Reagent Bottle Narrow Mouth with interchangble stopper 100 ml (borosilicate Glass)	10	280
44	Reagent Bottle Narrow Mouth with interchangble stopper 250 ml (borosilicate Glass)	10	280
45	Reagent Bottle Narrow Mouth with interchangble stopper 500 ml (borosilicate Glass)	5	140
46	Iron stand made of sheet metel base 175x125mm ± 10mm ROD 600mm ± 10mm x 8mm ± 1mm with fisher clamp	5	140
47	Stop Watch Singal Button Mechanical	1	28
48	Spirit lamps aluminum	10	280
49	Spatula Stainless Steel one end spoon 8"	5	140
50	Test tube 15x 125mm±2mm (borosilicate glass) with rim duly packed in a grooved plastic tray of capacity 10 pieces and packed in a 50 pcs. Box	100	2800
51	Test tube 12x75mm±1mm (borosilicate glass) with rim	50	1400

52	Test Tube stand for 15mm diameter test tube 8 hole Plastic	10	280
54	Test Tube brush	10	280
55	Tripod stand 6 inch x4 inch	10	280
56	Triangular File	5	140
57	Trough 30" Neutral Glass	4	112
58	Wire Gauge with frame 4"x4"	10	280
59	Watch Glass ordinary glass 4"	10	280
60	wicks for burner	5	140
62	White Tiles 6"x6"	3	84
63	Atomic model set 23mm diameter +/- 1mm set of 120 balls with	1	28
	100 locking plugs and Plastic connectors	_	
64	Stirrer (Neutral Glass)	5	140
66	Volumetric Flask 250 ml and 500 ml	5	140
		5	140
67	Litmus Paper(R/B)	5	140
68	Universal Indicator Paper	5	140
69	Universal Indicator Paper solution (500 ml)	2	56
70	Electric Kettle(1 ltr)	1	28

iii.Combined Zoology & Botany:

S.No	Item	Specifications	No per School	Total Nos
3	Digital Hot plate	Regular Model, With 3 Stage Heat Control Switch	1	28
4	Magnetic stirrer	WITH HOT PLATE	1	28
5	Chromatography Chamber 33"x9"x33"	Consists of Spreader (Applicator) Perspex Base 114x23cm, Al. Drying Plate rack for ten 20x20cm plates, Spotting Template Perspex, 5 Glass Plate 20x20cm & 2 plates 20x5cm, pipette, Scriber, Glass Sprayer with rubber below & Developing Tank	1	28
7	Water testing Kit (Chemical)WT 023		1	28
8	Wide field student microscope		1	28
9	Soil Testing Kit(Chemical) K054	Max Make , Four Parameter	1	28
10	Heamocytometer	Includes Counting chamber with RBC & WBC Tubes, Ordinary Quality (In Velvet Box)	1	28
11	Haemoglobinometer		1	28
12	Enamel tray	6"x4"	5	140
13	Laboratory thermometer		5	140

14	Maximum and minimum thermometer	Plastic Base	1	28
16	PH meter electrode		2	56
17	Projection slides of life history of insects		1	28
18	Micromodel of DNA		1	28
19	Mocromodel of Replication of DNA		1	28
20	Micromodels of linkage of Nucleotide		1	28
21	Charts		1	28
22	hand centrifuge machine (hand driven) 4 tubes	(4 Tubes), Superior Quality HEAVY	1	28
23	Dissecting set "surgeon" brand		2	56
25	Simple microscope	Olympus	2	56
26	Compound microscope(Natural and electrical light)	Olympus	2	56
27	Electrophoresis Kit		1	28
28	centrifuge		1	28
29	Hot plate	Regular Model, With 3 Stage Heat Control Switch	1	28
31	Water bath	Dia,4"(copper)	2	56
32	Soil sieve		5	140
33	Aluminium foil			
34	Beaker (250ml)	Borosil	1	28
35	Beaker (100ml)	Borosil	1	28
36	Beaker (50ml)	Borosil	1	28
37	Blades	Stainless Steel	1	28
38	Capillary tubes	Borosil	1	28
39	Cavity blocks	Borosil	1	28
40	Cotton roll		1	28
41	Cover slips	Borosil	1	28
42	Forceps	Stainless Steel	1	28
43	Glass slides	Borosil	1	28
44	Hiclean		1	28
45	Marker pen		1	28
46	Measuring cylinder (1L)	Borosil	1	28
47	Measuring cylinder (500ml)	Borosil	1	28
48	Measuring cylinder (250ml)	Borosil	1	28
49	Measuring cylinder (100ml)	Borosil	1	28
50	Measuring cylinder (50ml)	Borosil	1	28
51	Measuring cylinder (25ml)	Borosil	1	28

52	Needles	Stainless Steel	1	28
53	Ordinary filter paper		1	28
54	pH paper		1	28
55	Scissors	Stainless Steel	1	28
56	Spatula	Stainless Steel	1	28
57	Spirit lamp	Stainless Steel	1	28
58	Thermometer	Borosil	1	28
59	Thread		1	28
60	Whatman No.1 filter paper		1	28
61	Whatman No.1 paper		1	28
62	Test tubes (20ml)	Borosil	1	28
63	Culture tubes (50ml)	Borosil	1	28
64	Mortar and Pestle	Bone China	1	28

iv.Combined Biology:

Sr. No.	Name of Item along with Specification	No per School	Total Nos
1	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Tape Worm	1	28
2	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Silk Moth	1	28
3	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. Dia Cockroach	1	28
4	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Earthworm	1	28
5	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia ascaris Male	1	28
6	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia ascaris Female	1	28
7	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Liver Fluke	1	28
8	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia of lichen	1	28
9	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Jar specimen of epiphytic root	1	28
10	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Jar specimen of bladder wort	1	28
11	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Jar specimen of eichhornia	1	28
12	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Jar specimen of hydrilla	1	28
13	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Jar specimen of certophyllum	1	28
14	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms +/- 1cm. dia Jar specimen of salvinia	1	28
15	Preserved material of Marchantia (liver wort)	2	56

16	Preserved material of Funaria	2	56
17	Preserved material of Fern	2	56
18	Microscopic Glass Slide 76x26x1.1mm ISI	5	140
19	Marked pk of 50 slides	5	140
20	Petri dishes 100mm Borosilicate Glass	6	168
21	Petri dishes 90mm Plastic Polypropylene	5	140
22	Cover slips 18x18mm pack of 10gm	4	112
23	Forcep 6" with fine tip (Stainless steel)	5	140
24	Needles with plastic handle 4"	5	140
25	Test Tube stand for 15mm diameter test tube 8 hole Plastic	5	140
26	Dropper Glass 4" with rubber teat	5	140
27	Test Tube Holder Wooden Handle size 175mm +/- 15mm	5	140
28	Permanent slides of Bacteria Bacillus	2	56
29	Permanent slides of Bacteria Coccus	2	56
30	Permanent slides of Bacteria Spirillum	2	56
31	Permanent slides of Bacteria Vibrio	2	56
32	Permanent slides of Algae oscillatoria	2	56
33	Permanent slides of Algae spirogyra	2	56
34	Permanent slides of Fungi rhizopus	2	56
35	Permanent slides of Fungi Yeast	2	56
36	Permanent slides of L.S.Male Shoot-Funaria	2	56
37	Permanent slides of L.S.Female Shoot-Funaria	2	56
38	Permanent slides of Amoeba	2	56
39	Permanent slides of Plant Tissue Parenchyma	2	56
40	Permanent slides of Plant Tissue Collenchyma	2	56
41	Permanent slides of Plant Tissue Sclerenchyma	2	56
42	Permanent slides of Animal Tissue Epithelial	2	56
43	Permanent slides of Muscular Tissue Striated	2	56
44	Permanent slides of Muscular Tissue Non Striated	2	56
45	Permanent slides of Muscular Tissue Cardiac	2	56
46	Permanent slides of Nerve fiber	2	56
47	Permanent slides of Mitosis all stages	1	28
48	Permanent slides of Meiosis all stages	1	28
49	Permanent slides of T.S.Dicot Stem and monocot stem	2	56
50	Permanent slides of T.S.Dicot Root and monocot Root	2	56
51	Permanent slides of Mammalian blood smear	2	56
52	Permanent slides of pollen germination	2	56
53	Permanent slides of testis (mammalian)	2	56
54	Permanent slides of ovary (mammalian)	2	56
55	Permanent slides of blastula (amphibian ,mammal)	2	56
56	Permanent slides of ent amoeba histolytica, plasmodium, ringworm	2	56
57	Permanent slides of fungi - genra (Microsporum , Trichophyton &	3	84
50	Epidermophyton)	<u>-</u>	
58	Charts showing Human Physiology (Reproductive system male &	A	110
	female ,respiratery & circulatory system , digestive system ,skelton	4	112
50	system) size $50x75 \text{ cm} \pm 2\text{ cm}$ both side laminated with plastic rollers		
59	Charts of animal like hornedtoad, Kangaroo rat, camel size 50x75 cm ±	1	28
	2cm both side laminated with plastic rollers		

(Charts of Starfish, Rohufish, Frog, Freshwater Fish, Marine bony fish Lophius) size 50x75 cm ± 2cm both side laminated with plastic rollers	1	28
	Charts size $50x75 \text{ cm} \pm 2\text{cm}$ both side laminated with plastic rollers showing analogous & Homologous organs in various plants & animals	1	28
	Human Skelton made of fiber glass, disarticulated, stand size 5 feet	1	28
	Leishmans stain 250 ml	1	28
64 S	Safranine 50gm	1	28
	Glycerine 500 gm	1	28
66 S	Sodium Chloride 500gm	1	28
67 (Cobalt Chloride 100gm	1	28
68 E	Benedict Solution 250ml	2	56
69 F	Fehling Solution No1 500ml	1	28
70 F	Fehling Solution No2 500ml	1	28
71 E	Biuret Reagent 200ml	1	28
72 N	Millions Reagent 125ml	2	56
	Sudan III 100ml	1	28
74 S	Sodium Hydroxide pellets 250gm	2	56
75 I	odine 50gm	1	28
76 A	Acetone 500ml	1	28
77 F	Petrolium Ether 60-80 deg C 500ml	1	28
78 F	Phenol Red 50gm	1	28
79 I	Boric Acid 250gm	1	28
80 F	Potassium Chloride 250gm	1	28
81 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
82 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
83 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
84 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
85 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
86 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
90 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
105 F	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28

106	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
107	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
108	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
109	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
110	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
111	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
112	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
113	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
114	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
115	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
116	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
117	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
118	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
119	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
120	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
121	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
122	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
123	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
124	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
125	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
126	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
127	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
128	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
129	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
130	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
131	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
132	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
133	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
134	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
135	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
136	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
137	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
138	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
139	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
140	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
141	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
142	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
143	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
144	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
145	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28
146	Preserved Speciman In Jar size 15cm+/-1cm height x 5cms	1	28

I.2. Furniture:

	Technical Specifications				
Sl.No.	Name of Item	Specifications	Total Nos.		
1	Solid borotik frame and 19mm deep veneered top with solid borotik lippings. L48 x B24 x H28 inches		152		
2	Chair(With Arms)	The seat should be of 18" X 18" made up of 18mm commercial Wood or equivalent with wood finish. The back rest shall have tilt of 3" made up of 18mm commercial Wood or equivalent with wood finish. L15 x B18 x H16 inches	437		
3	Almirah	Steel almirah manufactured from 20 gauge Mild Steel (MS) sheet for body and doors. The Almirah should have four shelves making five compartments of standard size. The Almirah should have height adjustable shelves. The doors of almirah provided with stiffeners made of MS sheet spot welded to the doors. The almirah equipped with a special three way bolting device with tongue-in groove inter locking mechanism with six lever lock. The handle made from a nonferrous metal alloy, chrome plated. The complete almirah duly painted with synthetic enamel paint. MS sheet spot welded to the doors. The almirah equipped with a special three way bolting device with tongue-in groove inter locking mechanism with six lever lock. The handle made from a nonferrous metal alloy, chrome plated. The complete almirah duly painted with synthetic enamel paint. 78" (H) X 35.5" (W) X 19" (D)	32		

	School Wise Furniture Requirements				
Sl No	School Name	Tables	Chair (With Arms)	Almirah	
1	Ampati Govt. Higher Secondary School, Ampati	8	32	6	
2	Baghmara Govt. Higher Secondary School, Baghmara	12	15	0	
3	Dadenggiri Govt. Higher Secondary School, Dadenggiri	4	16	2	
4	Dalu Govt. Higher Secondary School, Dalu	12	40	0	
5	Govt. Boy's Higher Secondary School, Jowai	6	8	4	
6	Govt. Boy's Higher Secondary School, Shillong	0	0	0	
7	Govt. Boy's Higher Secondary School, Tura	6	24	0	
8	Govt. Girl's Higher Secondary School, Jowai	8	16	0	
9	Govt. Girl's Higher Secondary School, Shillong	8	36	0	
10	Govt. Girl's Higher Secondary School, Tura	2	8	2	
11	Jirang Govt. Higher Secondary School, New Jirang	6	24	0	
12	Maharam Govt. Higher Secondary School, Mawkyrwat	12	34	0	
13	Mallangkona Govt. Higher Secondary School, Mallangkona	12	34	4	
14	Nongtalang Govt. Secondary School, Nongtalang	4	12	2	
15	Partharkhmah Govt. Higher Secondary School	8	16	4	
16	Resubelpara Govt. Higher Secondary School, Resubelpara	6	24	0	
17	Rongrenggiri Govt. Higher Secondary School, Rongrenggiri	2	2	0	
18	Rymbai Govt. Secondary School, Rymbai	8	16	4	
19	Sibsingh Memorial Govt. Higher Secondary School, Nongstoin	8	36	0	
20	Sohkha Govt. Higher Secondary School, Sohkha	4	12	0	
21	Tirot Sing Memorial Govt. Higher Secondary School, Nongkhlaw	8	16	0	
22	Umthlong Nongthliew Govt. Higher Secondary School, Nongthliew	8	16	4	
	TOTAL	152	437	32	

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

I.3. Civil Work:

School-Wise Requirement:

1. Ampati Govt. Higher Secondary School, Ampati

	1.	Ampati Govt. Higher Sec	condary	y School, Ar	npati			
		A. AMPATI GOVT. HI	GHER S	ECONDARY	SCHOOL, AN	⁄ІРАТІ - РНҮ	SICS LAB	
		QUANTITY C	F MATE	RIALS (As	per MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e					
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
		DRAINAGE Plain cement concrete						
2	2.1	foundation bed for foots shall be measured and			TCK WOTKS E	etc (Snatten	Ing where	necessary
		(a) In prop. 1:3: 6 Side Drain						
		Base	1	16.69	0.450	0.300	0.1100	2.25
		Sides	2	16.69	0.430	0.300	cum	0.75
		Oldes		10.00	0.070	Total	cum	3.00
		In Foundation and sub	otruoi	lura inaludi	na footina			
3	2.5.1	plinth beam, pile cap, ra thick up to Plinth Level.	aft slab,					
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain			_			
		Cover	1	16.69	0.450	0.075	cum	0.56
						Total	cum	0.56
4	2.10	Providing form work of and removal of the sam centering, shuttering, s	e for co	oncrete mer	nbers so as	to give a r	ough finis	h including
		(b) at below ground level requiring formwork						
		at sides only.			<u> </u>			
		Base	1	16.69		1.050	sqm	17.5245
			1 2	16.69 16.69		1.050 1.050	sqm sqm	17.5245 35.049

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,

Ph-0364-2226062, 2225083/Fax: 0364-2226062

5	5.1	10 mm thick Cement planterior plastering					
		d) In cement mortar 1:6					
		Base	2	16.69	1.050	sqm	35.049
		Sides	1	16.69	1.050	sqm	17.525
					Total	sqm	52.574

		B. AMPATI GOVT. HIGH			,		THE LAD					
QUANTITY OF MATERIALS (As per MSOR 2015-16)												
SI. No.	Code.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty				
140.	1101				Providing fitting & fixing laboratory sink e with Cl/MS brackets, C.P. brass chain with rubber plug, PVC waste pipe etc. complete etc. (Sink cock, stop cocks, waste coupling are to be paid separately.							
1	34.16	with rubber plug, PVC	waste p	ipe etc. cor		brackets,						
		with rubber plug, PVC	waste p	ipe etc. cor		brackets,						
		with rubber plug, PVC coupling are to be paid	waste p	ipe etc. cor		brackets,						
		with rubber plug, PVC coupling are to be paid (a) White (i) Size 450 x 300 x	waste p	ipe etc. cor		brackets,	stop cod	cks, waste				
		with rubber plug, PVC coupling are to be paid (a) White (i) Size 450 x 300 x	waste p	ipe etc. cor		S brackets, Sink cock,	each	2.000				

2. Baghmara Govt. Higher Secondary School, Baghmara:

		QUANTITY	OF MATI	ERIALS (As I	oer MSOR 20	15-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
		H.C.I pipe including bo	Ita and	nute and o	thar fittings	ac director	d and snoo	ified
2	34.35.1	n.c.i pipe ilicidalily bo	ils aiiu	nuis and o	iner mungs	as unected	i anu spec	meu.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
		lead and two coats of b	ituiiiiit	ous paint.				000007700
		(b) 1000 litre Capacity	1	ous paint.			each	1.000
		(b) 1000 litre Capacity	1	-		Total	each	1.000 2.000
4	79		1 ng of ex	haust fan d	ouble beari		each icating typ	1.000 2.000 pe single
4	79	(b) 1000 litre Capacity Supplying fitting & fixin phase 50 Hz 250v AC	1 ng of ex	haust fan d	ouble beari	ng self lubt	each icating typ	1.000 2.000 pe single 4.000
4	79	(b) 1000 litre Capacity Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan	1 ng of ex	haust fan d	ouble beari		each icating typ	1.000 2.000 pe single 4.000
4	79	(b) 1000 litre Capacity Supplying fitting & fixing phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE	1 g of ext	haust fan d		ng self lubt Total	each icating typ each each	1.000 2.000 pe single 4.000 4.000
5	79	(b) 1000 litre Capacity Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan	1 g of exitation of the state	haust fan d	aggregate	ng self lubt Total of sizes 13i	each icating typ each each each	1.000 2.000 De single 4.000 4.000
		(b) 1000 litre Capacity Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for foot	1 g of exitation of the state	haust fan d	aggregate	ng self lubt Total of sizes 13i	each icating typ each each each	1.000 2.000 De single 4.000 4.000
		(b) 1000 litre Capacity Supplying fitting & fixing phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for foot shall be measured and	1 g of exitation of the state	haust fan d	aggregate	ng self lubt Total of sizes 13i	each icating typ each each each	1.000 2.000 De single 4.000 4.000
		(b) 1000 litre Capacity Supplying fitting & fixing phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for foot shall be measured and (a) In prop. 1:3: 6 Side Drain Base	1 g of eximals and a second s	haust fan d	aggregate rick works e	Total of sizes 13ietc (shutteri	each icating typ each each each	1.000 2.000 De single 4.000 4.000 De min in necessary
		(b) 1000 litre Capacity Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for foot shall be measured and (a) In prop. 1:3: 6 Side Drain	1 4 works ving steppaid se	haust fan d	aggregate rick works e	Total of sizes 13ietc (shutteri	each icating typ each each mm to 32m	1.000 2.000 De single 4.000 4.000 De min in necessary

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

6	2.5.1	In Foundation and sub plinth beam, pile cap, ra thick up to Plinth Level.	ft slab,					
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
		Cover	1	22.22	0.450	0.075	cum	0.75
						Total	cum	0.75
		(b) at below ground level requiring formwork at sides only.						
		Base	1	22.22		1.050	sqm	23.331
		Sides	2	22.22		1.050	sqm	46.662
					l	Total	sqm	69.993
8	5.1	10 mm thick Cement plainterior plastering						
		d) In cement mortar 1:6						
		Base	2	22.22		1.050	sqm	46.662
		Sides	1	22.22		1.050	sqm	23.331
						Total	sqm	69.993

		B. BAGHMARA GOVT. HI	GHER SE	ECONDARY S	SCHOOL, BA	GHMARA - I	BIOLOGY L	АВ		
		QUANTITY (OF MATE	RIALS (As	per MSOR 2	015-16)				
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty		
1	34.16	Providing fitting & fixing laboratory sink e with Cl/MS brackets, C.P. brass chain with rubber plug, PVC waste pipe etc. complete etc. (Sink cock, stop cocks, waste coupling are to be paid separately.								
		(a) White								
		(i) Size 450 x 300 x	2				each	2.000		
		150						2.000		
		150				Total	each			
2	34.35.1	H.C.I pipe including bo	lts and	nuts and o	ther fittings			2.000		
2	34.35.1		lts and	nuts and o	ther fittings			2.000		
2	34.35.1	H.C.I pipe including bo	olts and	9.000	ther fittings			2.000		

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

	38.1	Supplying and placing thickness (in mm) sheet lead and two coats of bi	ts comp	lete with ma				
		(b) 1000 litre Capacity	1				each	1.000
		(b) 1000 lifte Capacity	1			Total	each	2.000
		Supplying fitting & fixin	a of ext	haust fan doi	uhle hearini			
4	79	phase 50 Hz 250v AC			ubic bearing	y Sen Idbi	cuting type	Single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000
		DRAINAGE						
5	2.1	foundation bed for footi shall be measured and			ck works etc	c (shutteri	ng where n	ecessary
		(a) In prop. 1:3: 6						
		Side Drain		20.00	0.450			
		Base	1	22.00	0.450	0.300	cum	2.97
		Sides	2	22.00	0.075	0.300	cum	0.99
						Total	cum	3.96
6	2.5.1	plinth beam, pile cap, ra thick up to Plinth Level.		base slab	and other	works not	less than	100mm
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		(a) M15 or Prop. 1:2:4 (for non-structural						
		(a) M15 or Prop. 1:2:4 (for non-structural works)	1	22.00	0.450	0.075	cum	0.74
		(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover	1			Total	cum	0.74
7	2.10	(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state of the same centering formwork of level requiring formwork	1 ordinar e for co	y timber plar ncrete memi	nking of thic bers so as t	Total ckness no to give a re	cum t less than ough finish	including
7	2.10	(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state of the same centering of the sa	1 ordinar e for co trutting	y timber plar ncrete meml and proppin	nking of thic bers so as t	Total ckness no to give a re pecified fo	cum t less than ough finish r the follow	0.74 25mm including ing items:
7	2.10	(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state of the same centering formwork at sides only. Base	ordinar e for co trutting	y timber plan ncrete meml and proppin	nking of thic bers so as t	Total ckness no co give a receified for	cum t less than ough finish r the follow	0.74 25mm including ring items: 23.1
7	2.10	(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state of the same centering of the sa	1 ordinar e for co trutting	y timber plar ncrete meml and proppin	nking of thic bers so as t	Total ckness no o give a repecified for 1.050	cum t less than ough finish r the follow sqm sqm	0.74 25mm including ing items: 23.1 46.2
7	2.10	(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state of the same centering formwork at sides only. Base Sides 10 mm thick Cement pl	ordinar e for co trutting	y timber plan ncrete meml and proppin 22.00 22.00	nking of thic bers so as t ng etcsp	Total ckness no co give a re pecified for 1.050 1.050 Total of brick/c	cum t less than ough finish r the follow sqm sqm sqm oncrete wa	0.74 25mm including ing items: 23.1 46.2 69.300 alls for
		(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states only. Base Sides	ordinar e for co trutting	y timber plan ncrete member and proppin 22.00 22.00	nking of thic bers so as t ng etcsp	Total ckness no co give a re pecified for 1.050 1.050 Total of brick/c	cum t less than ough finish r the follow sqm sqm sqm oncrete wa	0.74 25mm including ing items: 23.1 46.2 69.300 alls for
		(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states only. Base Sides 10 mm thick Cement plinterior plastering	ordinar e for co trutting	y timber plan ncrete meml and proppin 22.00 22.00 single coat	nking of thic bers so as t ng etcsp	Total ckness no co give a re pecified for 1.050 1.050 Total of brick/co	cum t less than ough finish r the follow sqm sqm sqm concrete was as directe	0.74 25mm including ing items: 23.1 46.2 69.300 alls for
		(a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states of the same centering formwork at sides only. Base Sides 10 mm thick Cement plastering	ordinar e for co trutting	y timber plan ncrete member and proppin 22.00 22.00	nking of thic bers so as t ng etcsp	Total ckness no co give a re pecified for 1.050 1.050 Total of brick/c	cum t less than ough finish r the follow sqm sqm sqm oncrete wa	0.74 25mm including ing items: 23.1 46.2 69.300 alls for

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

	C	. BAGHMARA GOVT. HIG	HER SEC	CONDARY SO	CHOOL, BAG	HMARA - CI	HEMISTRY	' LAB
	1	QUANTITY C	OF MAT	ERIALS (As p	oer MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	lts and	nuts and of	her fittings	as directed	d and spe	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	38.1	Supplying and placing thickness (in mm) sheet lead and two coats of bi	ts com	olete with m				
		(b) 1000 litre Capacity	1				each	1.000
						Total	each	2.000
4	79	Supplying fitting & fixin phase 50 Hz 250v AC	g of ex	haust fan d	ouble beari	ng self lubt	icating ty	pe single
		(a) Medium duty exhaust fan						
			4				each	4.000
							l	

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

3. Dadenggiri Govt. Higher Secondary School, Dadenggiri:

		DADENGGIRI GOVT. HIGH	IER SECO	ONDARY SCI	HOOL, DADE	NGGIRI PHY	SICS LAB	
		QUANTITY (OF MATI	ERIALS (As _I	oer MSOR 20	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe et	tc. complete				
		(a) White (i) Size 450 x 300 x	2					2.000
		150				Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings		each I and spec	
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
		Supplying fitting & fixing				Total	Rm	18.000
		(a) Medium duty exhaust fan	2			Total	each	2.000 2.000
		DRAINAGE				Total	each	2.000
4	2.1	Plain cement concrete foundation bed for foot shall be measured and	ing step	os, walls, bi				
		(a) In prop. 1:3: 6 Side Drain						
		Base	1	19.60	0.450	0.300	cum	2.65
		Sides	2	19.60	0.075	0.300	cum	0.88
						Total	cum	3.53
5	2.5.1	In Foundation and sub plinth beam, pile cap, ra thick up to Plinth Level.	aft slab,			columns wi	ith base, ti	e and
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
			t	l				
		Cover	1	19.60	0.450	0.075 Total	cum	0.66 0.66

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

6	2.10	centering, shuttering, strutting and propping etcspecified for the following items:									
		(b) at below ground level requiring formwork at sides only.									
		Base	1	19.60		1.050	sqm	20.58			
		Sides	2	19.60		1.050	sqm	41.16			
						Total	sqm	61.740			
7	5.1	10 mm thick Cement pl interior plastering									
		d) In cement mortar 1:6									
		Base	2	19.60		1.050	sqm	41.160			
		Sides	1	19.60		1.050	sqm	20.580			
						Total	sqm	61.740			

4. Government Boy's Higher Secondary School, Jowai:

		GOVERNMENT BOY'S HI	GHER S	ECONDARY	SCHOOL, JO	WAI - PHYSI	CS LAB	
					er MSOR 201			
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	lts and	nuts and o	ther fittings	as directed	d and spe	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	38.1	Supplying and placing thickness (in mm) sheet lead and two coats of b	ts com	olete with m				
		(b) 1000 litre Capacity	1				each	1.000
						Total	each	2.000
		DRAINAGE						
4	2.1	Plain cement concrete	works	with coarse	aggregate	of sizes 13	mm to 32r	nm in

		foundation bed for footi shall be measured and p			ck works etc	c (shutteri	ng where	necessary				
		(a) In prop. 1:3: 6										
		Side Drain										
		Base	1	22.00	0.450	0.300	cum	2.97				
		Sides	2	22.00	0.075	0.300	cum	0.99				
						Total	cum	3.96				
5	2.5.1	In Foundation and sub- plinth beam, pile cap, ra										
		thick up to Plinth Level.										
		(a) M15 or Prop. 1:2:4 (for non-structural works)										
		Side Drain										
		Cover	1	22.00	0.450	0.075	cum	0.74				
		Dua vistina farma vasula af		. timah ay mla	ndring of this	Total	cum	cum 0.74 ess than 25mm				
6	2.10	Providing form work of and removal of the same centering, shuttering, st	e for co	ncrete mem	bers so as t	ckness no to give a re	t less that	n 25mm h including				
6	2.10	and removal of the same	e for co	ncrete mem	bers so as t	ckness no to give a re	t less that	n 25mm h including				
6	2.10	and removal of the same centering, shuttering, st (b) at below ground level requiring formwork	e for co	ncrete mem	bers so as t	ckness no to give a re	t less that ough finis r the follo	n 25mm h including				
6	2.10	and removal of the same centering, shuttering, st (b) at below ground level requiring formwork at sides only.	e for co	ncrete mem and proppin	bers so as t	ckness no to give a re secified fo	t less that	n 25mm h including wing items:				
6	2.10	and removal of the same centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base	e for con trutting	ncrete mem and proppin	bers so as t	ckness no to give a re pecified fo	t less that ough finis r the follo	n 25mm th including wing items:				
7	2.10	and removal of the same centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base	e for confrutting a	22.00 22.00	bers so as t	1.050 Total of brick/c	sqm sqm sqm	23.1 46.2 69.300 valls for				
		and removal of the same centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement place	e for confrutting a	22.00 22.00	bers so as t	1.050 Total of brick/c	sqm sqm sqm	23.1 46.2 69.300 valls for				
		and removal of the same centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	e for confrutting a	22.00 22.00	bers so as t	1.050 Total of brick/c	sqm sqm sqm	23.1 46.2 69.300 valls for				
		and removal of the same centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	1 2 aster inand s	22.00 22.00 22.00 single coat	bers so as t	1.050 1.050 Total of brick/c	sqm sqm sqm sqm sqm	23.1 46.2 69.300 ralls for				

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062

5. Government Boy's Higher Secondary School, Shillong:

		GOVERNMENT BO	y's HIGH	HER SECOND	ARY SCHOO	L, SHILLON	G	
	T	QUANTITY O	F MATE	RIALS (AS P	ER MSOR 20)15-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complet				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo (a) In exposed	Its and	nuts and o	ther fittings	as directed	d and spec	ified.
		surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	79	Supplying fitting & fixing phase 50 Hz 250v AC (a) Medium duty			ouble bear	ing Sell Tube	Teating typ	e single
		exhaust fan						
			2				each	2.000
						Total	each	2.000
		DRAINAGE						
4	2.1	Plain cement concrete foundation bed for foot shall be measured and	ing step	os, walls, bi				
		(-) (-) (-)						
		(a) In prop. 1:3: 6						
		Side Drain			0.170			
		Side Drain Base	1	32.00	0.450	0.300	cum	
		Side Drain		32.00 32.00	0.450 0.075	0.300	cum	1.44
		Side Drain Base Sides	1 2	32.00	0.075	0.300 Total	cum	
5	2.5.1	Side Drain Base	1 2 - struct	32.00	0.075 ng footing,	0.300 Total columns w	cum cum ith base, ti	1.44 5.76 e and
5	2.5.1	Side Drain Base Sides In Foundation and sub plinth beam, pile cap, ra	1 2 - struct	32.00	0.075 ng footing,	0.300 Total columns w	cum cum ith base, ti	1.44 5.76 e and
5	2.5.1	Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural	1 2 - struct	32.00	0.075 ng footing,	0.300 Total columns w	cum cum ith base, ti	1.44 5.76 e and

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

						Total	cum	1.08
6	2.10	Providing form work of and removal of the same centering, shuttering, st	e for co	oncrete mei	nbers so as	s to give a r	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						
		Base	1	32.00		1.050	sqm	33.6
		Sides	2	32.00		1.050	sqm	67.2
						Total	sqm	100.800
7	5.1	10 mm thick Cement planterior plastering						
		d) In cement mortar 1:6						
_		Base	2	32.00		1.050	sqm	67.200
		Sides	1	32.00		1.050	sqm	33.600
						Total	sqm	100.800

6. Government Boy's Higher Secondary School, Tura:

		QUANTITY O	F MATE	RIALS (AS P	ER MSOR 20)15-16)			
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty	
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete					
		(a) White							
		(i) Size 450 x 300 x 150	2				each	2.000	
						Total	each	2.000	
2	34.35.1	H.C.I pipe including bolts and nuts and other fittings as directed and specified.							
		(a) In exposed surfaces or in trenches.							
		(i) 150mm dia.	2	9.000			Rm	18.000	
						Total	Rm	18.000	
3	38.1	Supplying and placing thickness (in mm) sheet lead and two coats of b	ts com	olete with m					
		(b) 1000 litre Capacity	1				each	1.000	
						Total	each	2.000	
4	79	Supplying fitting & fixing of exhaust fan double bearing self lubticating type single							
		(a) Medium duty exhaust fan							
			4				each	4.000	
	1					Total	each	4.000	

	E	B. GOVERNMENT BOY'S H	IIGHER S	SECONDARY	SCHOOL, T	URA - CHEM	ISTRY LA	3
		QUANTITY O	F MATE	RIALS (As p	er MSOR 20	15-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	d and spe	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
2	38.1	Supplying and placing thickness (in mm) shee lead and two coats of b	ts com	olete with m				
		(b) 1000 litre Capacity	1	-			each	1.000
						Total	each	2.000
3	79	Supplying fitting & fixin phase 50 Hz 250v AC			ouble beari	ng self lubt	icating ty	pe single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000

		C. GOVERNMENT BOY'S					ogy Lab		
SI. No.	Code. No.	QUANTITY OF Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty	
		Providing fitting & fixing	laborat	tory sink e	with CI/MS	brackets, C.	P. brass c	hain with	
1	34.16	rubber plug, PVC waste բ			etc. (Sink d	cock, stop c	ocks, was	te	
		coupling are to be paid s	eparate	ely.					
		(a) White							
		(i) Size 450 x 300 x 150	2				each	2.000	
						Total	each	2.000	
2	34.35.1	H.C.I pipe including bolts and nuts and other fittings as directed and specified.							
		(a) In exposed surfaces							
		or in trenches.							
		(i) 150mm dia.	2	9.000			Rm	18.000	
						Total	Rm	18.000	
3	38.1	Supplying and placing G thickness (in mm) sheets lead and two coats of bite	compl	lete with ma					
		(b) 1000 litre Capacity	1				each	1.000	
						Total	each	2.000	
4	79	Supplying fitting & fixing of exhaust fan double bearing self lubticating type single phase 50 Hz 250v AC							
		(a) Medium duty exhaust fan							
			4				each	4.000	

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

7. Government Girl's Higher Secondary School, Shillong:

	7. G	A. GOVT. GIRL'S HIGHER				LONG - PHY	SICS LAB			
		QUANTITY C	F MAT	ERIALS (AS I	PER MSOR 2	015-16)				
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty		
		Providing fitting & fixing								
1	34.16	rubber plug, PVC waste			e etc. (Sink	cock, stop	cocks, wa	ste		
		coupling are to be paid	separa	tely.	I					
		(a) White	4					4.000		
		(i) Size 450 x 300 x 150	4				each	4.000		
						Total	each	4.000		
2	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	d and spec	ified.		
		(a) In exposed surfaces or in trenches.								
		(i) 150mm dia.	2	9.000			Rm	18.000		
						Total	Rm	18.000		
		Supplying and placing	G.I. tan	k over the	staging, we	lded around	d made of	20 I.S.		
_		thickness (in mm) shee								
3	38.1	lead and two coats of b								
				•						
		(b) 1000 litre Capacity	1				each	1.000		
						Total	each	1.000		
4	79	Supplying fitting & fixing of exhaust fan double bearing self lubticating type single phase 50 Hz 250v AC								
		(a) Medium duty								
		exhaust fan								
			4				each	4.000		
			-			Total	each	4.000		
		DRAINAGE					04077			
		Plain cement concrete	works	with coorse	aggragata	of cizos 12	mm to 22n	am in		
5	2.1	foundation bed for foot shall be measured and	ing ste _l	os, walls, bi						
		(a) In prop. 1:2: 6		1						
		(a) In prop. 1:3: 6	-							
		Side Drain		45.00	0.450	0.000		0.00		
		Base	1	45.00	0.450	0.300	cum	6.08		
		Sides	2	45.00	0.075	0.300	cum	2.03		
						Total	cum	8.10		
		In Foundation and sub								
6	2.5.1	plinth beam, pile cap, ra		, base slab.	and othe	r works no	t less than	100mm		
		thick up to Plinth Level.		1	Γ	1	<u> </u>			
		(a) M15 or Prop. 1:2:4								
		(for non-structural								
		works) Side Drain	-							
		Cover	1	45.00	0.450	0.075	oum	1.52		
		Cover	 '	+5.00	0.400		cum			
		1	1			Total	cum	1.52		

7	2.10	centering, shuttering, strutting and propping etcspecified for the following items:								
		(b) at below ground level requiring formwork at sides only.								
		Base	1	45.00		1.050	sqm	47.25		
		Sides	2	45.00		1.050	sqm	94.5		
						Total	sqm	141.750		
8	5.1	10 mm thick Cement pl interior plastering								
		d) In cement mortar 1:6								
		Base	2	45.00		1.050	sqm	94.500		
		Sides	1	45.00		1.050	sqm	47.250		
						Total	sqm	141.750		

		B. GOVT. GIRL'S HIGH	IER SECO	ONDARY SC	HOOL, SHILL	ONG - Che	mistry Lal	o
		QUANTITY (OF MATE	RIALS (As	per MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing with rubber plug, PVC to coupling are to be paid	waste p	ipe etc. coi				
		(a) White						
		(i) Size 450 x 300 x 150	4				each	4.000
						Total	each	4.000

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

8. Government Girl's Higher Secondary School Tura:

		A. GOVERNMENT GIR	L'S HIGH	IER SECONI	DARY SCHOO	DL, TURA - PI	HYSICS LAB			
		QUANTITY	OF MAT	ERIALS (AS F	ER MSOR 20	15-16)				
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty		
1	34.16	Providing fitting & fixing laboratory sink e with Cl/MS brackets, C.P. brass chain with rubber plug, PVC waste pipe etc. complete etc. (Sink cock, stop cocks, waste coupling are to be paid separately.								
		(a) White								
		(i) Size 450 x 300 x 150	2				each	2.000		
						Total	each	2.000		
2	79	Supplying fitting & fixing phase 50 Hz 250v AC			ouble beari	ng self lubt	ticating ty	pe single		
		(a) Medium duty exhaust fan								
			2				each	2.000		
						Total	each	2.000		

9. Government Girl's Higher Secondary School, Jowai:

		A. GOVERNMENT GIRL	'S HIGHI	ER SECOND	ARY SCHOOL	L, JOWAI - P	HYSICS LA	В
		QUANTITY (OF MATE	RIALS (AS	PER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixin rubber plug, PVC waste coupling are to be paid	e pipe e	tc. complet				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	79	Supplying fitting & fixir phase 50 Hz 250v AC			ouble beari	ing self lubt	icating ty	pe single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

		B. GOVERNMENT GIR	L'S HIGHI	ER SECONDA	ARY SCHOOL	., JOWAI, BI	OLOGY LA	ΛB
		QUANTITY	OF MATE	RIALS (AS I	PER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC wast coupling are to be paid	e pipe e	tc. complet		-		
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	79	Supplying fitting & fixing phase 50 Hz 250v AC.			ouble beari	ng self lubt	icating ty	pe single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000

10. Jirang Govt. Higher Secondary School, New Jirang:

	Α.	JIRANG GOVERNMENT H	IIGHER	SECONDARY	SCHOOL, N	IEW JIRANG	- PHYSIC	S LAB			
		QUANTITY C	F MATE	RIALS (AS F	PER MSOR 2	015-16)					
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit Qty				
1	34.16	Providing fitting & fixing rubber plug, PVC waste	pipe e	tc. complete							
		(a) White	Separa	tery.							
		(i) Size 450 x 300 x 150	2				each	2.000			
						Total	each	2.000			
2	34.35.1	H.C.I pipe including bo	Its and	nuts and of	ther fittings	as directed	d and spe	cified.			
		(a) In exposed surfaces or in trenches.									
		(i) 150mm dia.	2	9.000			Rm	18.000			
						Total	Rm	18.000			
3	79	Supplying fitting & fixing phase 50 Hz 250v AC			ouble beari	ng self lubt	icating ty	pe single			
		(a) Medium duty exhaust fan									
			4				each	4.000			
						Total	each	4.000			

	В.	JIRANG GOVERNMENT HIS QUANTITY O					CHEIVIIST	NI LAD		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty		
1	34.35.1	H.C.I pipe including bolts and nuts and other fittings as directed and specified.								
'	34.33.1	(a) In exposed surfaces or in trenches.	ns and		iner mungs	as un ectet	Tana spec	.meu.		
		(i) 150mm dia.	2	9.000			Rm	18.000		
						T. (.)		40.000		
		Supplying and placing	G.I. tan	k over the s	staging, we	Total Ided around	Rm I made of			
2	38.1	Supplying and placing thickness (in mm) sheet lead and two coats of b	ts com	olete with m		lded around	d made of	20 I.S.		
2	38.1	thickness (in mm) shee	ts com	olete with m		lded around	d made of	20 I.S. coat of red		
2	38.1	thickness (in mm) sheet lead and two coats of b	ts comp itumino	olete with m		lded around	d made of h priming	20 I.S. coat of red		
2	38.1	thickness (in mm) sheet lead and two coats of b	ts compituming 1 g of ex	plete with mous paint.	nanhole cov	lded around rerwit Total	each	20 I.S. coat of red 1.000 2.000		
		thickness (in mm) sheet lead and two coats of be (b) 1000 litre Capacity Supplying fitting & fixin	ts compituming 1 g of ex	plete with mous paint.	nanhole cov	lded around rerwit Total	each	20 I.S. coat of red 1.000 2.000		
		thickness (in mm) shee lead and two coats of be (b) 1000 litre Capacity Supplying fitting & fixing phase 50 Hz 250v AC (a) Medium duty	ts compituming 1 g of ex	plete with mous paint.	nanhole cov	lded around rerwit Total	each	1.000 2.000		

	С	. JIRANG GOVERNMENT	HIGHER	SECONDAR	Y SCHOOL, N	NEW JIRANG	a - Biolog	y Lab	
		QUANTITY C	F MATE	RIALS (As	per MSOR 2	015-16)			
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty	
	Providing fitting & fixing laboratory sink e with Cl/MS brackets, C.P. brass chain with rubber plug, PVC waste pipe etc. complete etc. (Sink cock, stop cocks, waste								
1	34.16	rubber plug, PVC waste coupling are to be paid			e etc. (Sink	cock, stop	cocks, w	aste	
		(a) White	_						
		(i) Size 450 x 300 x 150	2				each	2.000	
						Total	each	2.000	
2	34.35.1	H.C.I pipe including bo	Its and	nuts and of	her fittings	as directed	d and spe	cified.	
		(a) In exposed surfaces or in trenches.							
		(i) 150mm dia.	2	9.000			Rm	18.000	
						Total	Rm	18.000	
3	38.1	Supplying and placing thickness (in mm) sheel lead and two coats of b	ts com	olete with m					
		(b) 1000 litre Capacity	1				each	1.000	
						Total	each	2.000	

4	79	Supplying fitting & fixing phase 50 Hz 250v AC			uble bearing	g self lubt	icating typ	e single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000
		DRAINAGE						
5	2.1	Plain cement concrete foundation bed for footi shall be measured and p	ng step	s, walls, brid				
		(a) In prop. 1:3: 6						
		Side Drain						
		Base	1	22.00	0.450	0.300	cum	2.97
		Sides	2	22.00	0.075	0.300	cum	0.99
						Total	cum	3.96
		In Foundation and sub	- struct	ure including	a footing c	olumns w	ith hase ti	o and
		thick up to Plinth Level.	(
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		(for non-structural works) Side Drain						
		(for non-structural works)	1	22.00	0.450	0.075	cum	
		(for non-structural works) Side Drain Cover	-			Total	cum	0.74
7	2.10	(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, st	ordinar e for co	ry timber plan	nking of thic bers so as t	Total ckness no to give a re	cum It less than ough finisi	0.74 25mm h including
7	2.10	(for non-structural works) Side Drain Cover Providing form work of and removal of the same	ordinar e for co	ry timber plan	nking of thic bers so as t	Total ckness no to give a re	cum It less than ough finisi	0.74 25mm h including
7	2.10	(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state (b) at below ground level requiring formwork	ordinar e for co trutting	ry timber plan	nking of thic bers so as t	Total ckness no to give a re	cum It less than ough finisi	0.74 n 25mm h including wing items:
7	2.10	(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, state (b) at below ground level requiring formwork at sides only.	ordinar e for co trutting	y timber plai ncrete memi and proppin	nking of thic bers so as t	Total ckness no to give a re pecified fo	cum It less than ough finisi Ir the follow	0.74 n 25mm h including wing items: 23.1
7	2.10	(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states of the same centering formwork at sides only. Base	ordinar e for co trutting	y timber plan encrete member and proppin	nking of thic bers so as t	Total ckness no to give a receified fo	cum It less than ough finish r the follow	0.74 n 25mm h including wing items: 23.1 46.2
7	2.10	(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states of the same centering formwork at sides only. Base	ordinar e for co trutting 1 2	y timber plan ncrete members and proppin 22.00 22.00	nking of thic bers so as t ng etcsp	Total ckness no to give a re pecified fo 1.050 1.050 Total of brick/c	sqm sqm sqm sqm	0.74 n 25mm h including wing items: 23.1 46.2 69.300 alls for
		(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states only. Base Sides 10 mm thick Cement place	ordinar e for co trutting 1 2	y timber plan ncrete member and proppin 22.00 22.00	nking of thic bers so as t ng etcsp	Total ckness no to give a re pecified fo 1.050 1.050 Total of brick/c	sqm sqm sqm sqm	0.74 n 25mm h including wing items: 23.1 46.2 69.300 alls for
		(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states of the same centering formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar e for co trutting 1 2	y timber plan ncrete member and proppin 22.00 22.00	nking of thic bers so as t ng etcsp	Total ckness no to give a re pecified fo 1.050 1.050 Total of brick/c	sqm sqm sqm sqm	23.1 46.2 69.300 alls for
		(for non-structural works) Side Drain Cover Providing form work of and removal of the same centering, shuttering, states only. Base Sides 10 mm thick Cement planterior plastering	ordinar e for co trutting 1 2 aster in	22.00 22.00 25.00 25.00	nking of thic bers so as t ng etcsp	Total ckness no to give a re pecified fo 1.050 1.050 Total of brick/of	sqm	0.74 n 25mm h including wing items: 23.1 46.2 69.300 alls for

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

11. Maharam Government Higher Secondary School, Mawkyrwat:

	A. N	MAHARAM GOVERNMENT QUANTITY O					/AT - PHYS	SICS LAB
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
_	0.1.10	Providing fitting & fixing						
1	34.16	rubber plug, PVC waste coupling are to be paid			e etc. (Sink	соск, ѕтор	COCKS, W	aste
		(a) White	Сериги	loiy.				
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	d and spe	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	38.1	thickness (in mm) shee lead and two coats of b			nanhole cov	/erwit	th priming	
		(b) 1000 litre Capacity	1				each	1.000
			<u></u>			Total	each	2.000
4	79	Supplying fitting & fixing phase 50 Hz 250v AC			ouble beari	ing self lubt	ticating ty	pe single
		(a) Medium duty exhaust fan						
		CATIOUSLIGHT	4				each	4.000
			_			Total	each	4.000
		DRAINAGE				- Total	00011	
5	2.1	Plain cement concrete foundation bed for foot shall be measured and (a) In prop. 1:3: 6	ing step	os, walls, bi				
		Side Drain						
		Base	1	20.74	0.450	0.300	cum	2.80
		Sides	2	20.74	0.075	0.300	cum	0.93
						Total	cum	3.73
6	2.5.1	In Foundation and sub plinth beam, pile cap, ra thick up to Plinth Level.	aft slab,					
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
		Cover	1	20.74	0.450	0.075	cum	0.70
						Total	cum	0.70

7	2.10	Providing form work of and removal of the same centering, shuttering, st	e for co	ncrete mer	nbers so as	s to give a r	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						-
		Base	1	20.74		1.050	sqm	21.777
		Sides	2	20.74		1.050	sqm	43.554
						Total	sqm	65.331
8	5.1	10 mm thick Cement pl						
	5.1	interior plastering	and	smooth inc	luding curii	ng complete	e as direc	ted.
		d) In cement mortar 1:6						
		Base	2	20.74		1.050	sqm	43.554
		Sides	1	20.74		1.050	sqm	21.777
						Total	sqm	65.331

	B. MAH	QUANTITY (OF MATI	ERIALS(AS P	ER MSOR 20	015-16)			
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty	
1	34.35.1	H.C.I pipe including bolts and nuts and other fittings as directed and specified.							
		(a) In exposed surfaces or in trenches.							
		(i) 150mm dia.	2	9.000			Rm	18.000	
						Total	Rm	18.000	
		DRAINAGE							
2	21	Plain cement concrete foundation bed for foot							
2	2.1	foundation bed for foot shall be measured and (a) In prop. 1:3: 6	ing step	os, walls, br					
2	2.1	foundation bed for foot shall be measured and	ing step	os, walls, br					
2	2.1	foundation bed for foot shall be measured and (a) In prop. 1:3: 6	ing step	os, walls, br				necessary	
2	2.1	foundation bed for foot shall be measured and (a) In prop. 1:3: 6 Side Drain	ing ster paid se	os, walls, br parately).	ick works e	tc (shutteri	ng where	necessary	
2	2.1	foundation bed for foot shall be measured and (a) In prop. 1:3: 6 Side Drain	ing step paid se	os, walls, br parately). 20.74	0.450	0.300	cum		
3	2.1	foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level.	ng steppaid se	20.74 20.74	0.450 0.075	0.300 0.300 Total	cum cum cum	2.80 0.93 3.73	
		foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and subplinth beam, pile cap, ra	ng steppaid se	20.74 20.74	0.450 0.075	0.300 0.300 Total	cum cum cum	2.80 0.93 3.73	
		foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and subplinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural	ng steppaid se	20.74 20.74	0.450 0.075	0.300 0.300 Total	cum cum cum	2.80 0.93 3.73	
		foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and subplinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	ng steppaid se	20.74 20.74	0.450 0.075	0.300 0.300 Total	cum cum cum	2.80 0.93 3.73	

4	2.10	Providing form work of and removal of the sam centering, shuttering, st	e for co	ncrete mer	nbers so as	s to give a r	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						
		Base	1	20.74		1.050	sqm	21.777
		Sides	2	20.74		1.050	sqm	43.554
						Total	sqm	65.331
5	5.1	10 mm thick Cement pl interior plastering						
		d) In cement mortar 1:6						
		Base	2	20.74		1.050	sqm	43.554
		Sides	1	20.74		1.050	sqm	21.777
						Total	sqm	65.331

	<u> </u>	MAHARAM GOVERNMEN				·				
		QUANTITY C	F MATE	RIALS (AS F	PER MSOR 2	015-16)				
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty		
1	34.35.1	<u> </u>								
		(a) In exposed surfaces or in trenches.								
		(i) 150mm dia.	2	9.000			Rm	18.000		
						Total	Rm	18.000		
		DRAINAGE								
2	2.1	foundation bed for foot	ina ster	se walle hi	iak warka a	4- /- 144				
	2.1	shall be measured and			ick works e	etc (snutteri	ng where i	necessary		
	2.1	(a) In prop. 1:3: 6			ick works e	etc (snutteri	ng where	necessary		
	2.1	(a) In prop. 1:3: 6 Side Drain	paid se	parately).		`				
	2.1	(a) In prop. 1:3: 6 Side Drain Base	paid se	<i>parately).</i> 52.92	0.450	0.300	cum	7.14		
	2.1	(a) In prop. 1:3: 6 Side Drain	paid se	parately).		`		7.14 2.38		
3	2.5.1	shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level.	paid se	52.92 52.92	0.450 0.075 ng footing,	0.300 0.300 Total columns wi	cum cum cum	7.14 2.38 9.53 e and		
		shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	paid se	52.92 52.92	0.450 0.075 ng footing,	0.300 0.300 Total columns wi	cum cum cum	7.14 2.38 9.53 e and		
		shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and subplinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works) Side Drain	paid se	52.92 52.92	0.450 0.075 ng footing,	0.300 0.300 Total columns wi	cum cum cum	7.14 2.38 9.53 e and		
		shall be measured and (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	paid se	52.92 52.92	0.450 0.075 ng footing,	0.300 0.300 Total columns wi	cum cum cum	7.14 2.38 9.53 e and		

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

4	2.10	Providing form work of and removal of the same centering, shuttering, st	e for co	oncrete men	nbers so as	to give a re	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						
		Base	1	52.92		1.050	sqm	55.566
		Sides	2	52.92		1.050	sqm	111.132
						Total	sqm	166.698
5	5.1	10 mm thick Cement plainterior plastering						
		d) In cement mortar 1:6						
		Base	2	52.92		1.050	sqm	111.132
		Sides	1	52.92		1.050	sqm	55.566
						Total	sqm	166.698

12. Mallangkona Government Higher Secondary School, Mallangkona:

<u> </u>	VIALLAN	GKONA GOVT. HIGHER SEC		ERIALS (AS P			ATED SCIEN	NCE LAB
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste are to be paid separately	pipe et					
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and oth	er fittings a	s directed	and specif	ied.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	79	Supplying fitting & fixing phase 50 Hz 250v AC			uble bearing	g self lubtic	ating type	single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000
		DRAINAGE						
4	2.1	Plain cement concrete foundation bed for foot shall be measured and	ing step	s, walls, brid				
		(a) In prop. 1:3: 6						
		Side Drain		Perimeter				
		Base	1	16.68	0.450	0.300	cum	2.25
	1	Sides	2	16.68	0.075	0.300	cum	0.75
		0.0.00						3.00

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

5	2.5.1	In Foundation and sub beam, pile cap, raft slab to Plinth Level.						
		(a) M15 or Prop. 1:2:4						
		(for non-structural						
		works)						
		Side Drain						
		Cover	1	16.68	0.450	0.075	cum	0.56
						Total	cum	0.56
		Providing form work of	ordinai	y timber plai	nking of thic	kness not	less than	25mm and
6	2.10	removal of the same for						
		centering, shuttering, st	trutting	and proppin	g etcsp	ecified for	the follow	ving items:
		(b) at below ground						
		level requiring formwork						
		at sides only.						
		Base	1	16.68		1.050	sqm	17.514
		Sides	2	16.68		1.050	sqm	35.028
						Total	sqm	52.542
7	5.1	10 mm thick Cement pl interior plastering						
7	5.1							
7	5.1	interior plastering						e d. 35.028
7	5.1	interior plasteringd) In cement mortar 1:6	and	smooth inclu		complete	as directo	ed.
7	5.1	d) In cement mortar 1:6 Base Sides	2 1	16.68 16.68	ding curing	1.050 1.050 Total	sqm sqm sqm sqm	35.028 17.514 52.542
8	6.33	d) In cement mortar 1:6 Base Sides Providing, fitting and fithick ply board / hardbo	2 1 xing in	16.68 16.68 position plyv.	wood / hardi	1.050 1.050 Total board parti	sqm sqm sqm sqm tion walls	35.028 17.514 52.542 s with 6mm
		interior plastering d) In cement mortar 1:6 Base Sides Providing, fitting and fithick ply board / hardbo (Painting / Varnishing to	2 1 xing in	16.68 16.68 position plyvice complete as a sured and	wood / hardl directed by paid separa	1.050 1.050 Total board parti	sqm sqm sqm sqm tion walls	35.028 17.514 52.542 s with 6mm r all levels
		d) In cement mortar 1:6 Base Sides Providing, fitting and fithick ply board / hardbo	2 1 xing in	16.68 16.68 position plyv.	wood / hardi	1.050 1.050 Total board parti y the Departely).	sqm sqm sqm tion walls	35.028 17.514 52.542 s with 6mm r all levels
		interior plastering d) In cement mortar 1:6 Base Sides Providing, fitting and fithick ply board / hardbo (Painting / Varnishing to (a)6mm thick Ply board	2 1 xing in eard	16.68 16.68 position plyv. complete as asured and	wood / hardl directed by paid separa	1.050 1.050 Total board parti y the Departely).	sqm sqm sqm tion walls rtment fo sqm	35.028 17.514 52.542 s with 6mm r all levels 2.00 2.00
		interior plastering d) In cement mortar 1:6 Base Sides Providing, fitting and fithick ply board / hardbo (Painting / Varnishing to (a)6mm thick Ply board Supplying and placing thickness (in mm) sheet	2 1 xing in pard be me 1 G.I. tan ts comp	16.68 16.68 position plyv. complete as asured and 2.00 k over the stolete with ma	wood / hards directed by paid separa 1.00	1.050 1.050 Total board parti y the Departely). Total ed around	sqm sqm sqm tion walls rtment fo sqm sqm made of 2	35.028 17.514 52.542 s with 6mm r all levels 2.00 2.00 20 I.S.
8	6.33	interior plastering d) In cement mortar 1:6 Base Sides Providing, fitting and fithick ply board / hardbo (Painting / Varnishing to (a)6mm thick Ply board Supplying and placing	2 1 xing in pard be me 1 G.I. tants comp	16.68 16.68 position plyv. complete as asured and 2.00 k over the stolete with ma	wood / hards directed by paid separa 1.00	1.050 1.050 Total board parti y the Departely). Total ed around	sqm sqm sqm tion walls rtment fo sqm sqm made of 2	35.028 17.514 52.542 s with 6mm r all levels 2.00 2.00 20 I.S.

13. Nongtalang Government Secondary School, Nongtalang:

	NON	GTALANG GOVERNMENT	SECOND	ARY SCHOO	L, NONGTA	LANG: INTE	GRATED S	C LAB
		QUANTITY O	F MATE	RIALS (AS	PER MSOR 2	2015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	e pipe e	tc. complete				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

2	79	Supplying fitting & fixing of e phase 50 Hz 250v AC	xhaust fan dou 	ıble bearing self luk	ticating ty	/pe single
		(a) Medium duty exhaust fan				
		2			each	2.000
				Total	each	2.000

14. Partharkhmah Government Higher Secondary School:

	F	PARTHARKHMAH GOVT. H	IIGHER S	ECONDARY S	CHOOL INTI	EGRATED SC	IENCE LAB	}
		QUANTITY	OF MAT	ERIALS (AS P	ER MSOR 20	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	79	Supplying fitting & fixing phase 50 Hz 250v AC			uble bearin	g self lubtio	cating type	e single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000
2	6.33	Providing, fitting and f thick ply board / hardbo (Painting / Varnishing to	oard	complete as	s directed b	y the Depa		
		(a)6mm thick Ply board	1	2.00	1.00		sqm	2.00
		•				Total	sqm	2.00

15. Rongrenggiri Government Higher Secondary School, Rongrenggiri, Williamnagar:

	Α.	RONGRENGGIRI GOVT. HI	GHER S	ECONDARY:	SCHOOL, RC	NGRENGGI	RI - PHYSIC	CS LAB
		QUANTITY O	F MATE	RIALS (AS F	ER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe et	tc. complete				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
								0.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and ot	ther fittings			
2	34.35.1	H.C.I pipe including bo (a) In exposed surfaces or in trenches.	Its and	nuts and ot	ther fittings			
2	34.35.1	(a) In exposed	Its and	nuts and ot	her fittings			2.000 cified. 18.000

3	79	Supplying fitting & fixing phase 50 Hz 250v AC			uble bearing	g self lubt	icating type	e single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000
		DRAINAGE						
4	2.1	Plain cement concrete foundation bed for footi shall be measured and p	ng step	os, walls, brid				
		(a) In prop. 1:3: 6						
		Side Drain						
		Base	1	22.00	0.450	0.300	cum	2.97
		Sides	2	22.00	0.075	0.300	cum	0.99
						Total	cum	3.96
		thick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	(
		,						
		Side Drain		00.00	0.450	0.075		0.74
		Cover	1	22.00	0.450	0.075	cum	0.74
						Total	cum	0.74
6	2.10	Providing form work of and removal of the same centering, shuttering, st (b) at below ground level requiring formwork	e for co	ncrete mem	bers so as t	o give a re	ough finish	including
		at sides only.						
		Base	1	22.00		1.050	sqm	23.1
								2 J. i
		Sides	2	22.00		1.050	sqm	
		Sides	2	22.00		1.050 <i>Total</i>	sqm sqm	
7	5.1	Sides 10 mm thick Cement plainterior plastering	aster in	single coat		Total of brick/c	sqm oncrete wa	46.2 69.300 alls for
7	5.1	10 mm thick Cement pla	aster in	single coat		Total of brick/c	sqm oncrete wa	46.2 69.300 alls for
7	5.1	10 mm thick Cement plainterior plastering	aster in	single coat		Total of brick/c	sqm oncrete wa	46.2 69.300 alls for
7	5.1	10 mm thick Cement plainterior plasteringd) In cement mortar 1:6	aster in and	n single coat smooth inclu		Total of brick/c complete	sqm oncrete wa as directe	46.2 69.300 alls for d.

		ONGRENGGIRI GOVT. HIG			DED MCOD 2		CITEIVIIO	NILAD
SI. No.	Code. No.	QUANTITY O	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
		DRAINAGE						
2	2.1	Plain cement concrete foundation bed for foot shall be measured and	ing ste _l	os, walls, bi				
		(a) In prop. 1:3: 6						
		Side Drain						
		Base	1	22.00	0.450	0.300	cum	2.9
		Sides	2	22.00	0.075	0.300	cum	0.99
						Total	cum	3.96
		(a) M15 or Prop. 1:2:4 (for non-structural	(
		works) Side Drain						
		0.0.0 2.0						
		Cover	1	22.00	0.450	0.075	cum	0.74
		Cover		22.00	0.450	0.075 Total	cum cum	0.74
4	2.10	Providing form work of and removal of the sam centering, shuttering, states (b) at below ground level requiring formwork at sides only.	ordinal e for co trutting	ry timber pla oncrete men and proppi	anking of th	Total lickness no to give a re specified fo	cum t less thar ough finis r the follow	0.74 n 25mm h including ving items
4	2.10	Providing form work of and removal of the sam centering, shuttering, states (b) at below ground level requiring formwork at sides only. Base	ordinal e for co trutting	ry timber pla oncrete men and propp	anking of th	Total ickness no to give a respecified for	cum t less than ough finish r the follow	0.74 n 25mm h including wing items
4	2.10	Providing form work of and removal of the sam centering, shuttering, states (b) at below ground level requiring formwork at sides only.	ordinal e for co trutting	ry timber pla oncrete men and proppi	anking of th	Total lickness no to give a respecified for 1.050 1.050	cum t less thar ough finish r the follow sqm sqm	0.74 n 25mm h including wing items 23.7 46.2
5	2.10	Providing form work of and removal of the sam centering, shuttering, states of the sam centering, shuttering, states of the sam centering, shuttering formwork at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement planterior plastering	ordinal e for cotrutting	ry timber pla oncrete men and proppi 22.00 22.00	anking of the mbers so as ing etcs	Total lickness no to give a respecified for 1.050 1.050 Total	cum It less than ough finish r the follow sqm sqm sqm	0.74 n 25mm h including wing items 23. 46.3
		Providing form work of and removal of the sam centering, shuttering, state of the sam centering formwork at sides only. Base Sides 10 mm thick Cement pl	ordinal e for cotrutting	ry timber pla oncrete men and proppi 22.00 22.00	anking of the mbers so as ing etcs	Total lickness no to give a respecified for 1.050 1.050 Total	cum It less than ough finish r the follow sqm sqm sqm	0.74 n 25mm h including wing items 46.2 69.300 alls for ed.
		Providing form work of and removal of the sam centering, shuttering, state of the sam centering, shuttering, state of the sam centering, shuttering, state of the sam centering formwork at below ground level requiring formwork at sides only. Base 10 mm thick Cement planterior plastering	ordinal e for cotrutting	22.00 22.00 a single coa	anking of the mbers so as ing etcs	Total lickness no to give a respecified for 1.050 1.050 Total	cum It less than ough finish r the follow sqm sqm sqm	23.1 46.2 69.300 alls for ed.
		Providing form work of and removal of the sam centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement pl interior plastering	ordinal e for co trutting	22.00 22.00 a single coasmooth inca	anking of the mbers so as ing etcs	Total lickness no to give a respecified for 1.050 1.050 Total le of brick/co	sqm sqm sqm sqm sqm sqm sqm sqm sqm	0.74 n 25mm h including wing items. 23.1 46.2 69.300 alls for ed.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

16. Resubelpara Government Higher Secondary School, Resubelpara:

		RESUBELPARA GOVT. HI QUANTITY O					1 - PH13IC3	LAD
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
		Providing fitting & fixing						
1	34.16	rubber plug, PVC waste coupling are to be paid			e etc. (Sink	cock, stop	cocks, wa	ste
		(a) White (i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and or	ther fittings	as directed	and spec	ified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
		()	_	0.000		Total	Rm	18.000
		Supplying and placing	G.I. tan	k over the s	staging, we			20 I.S.
3	38.1	thickness (in mm) shee						
		lead and two coats of b	tumino	us paint.				
		(b) 1000 litre Capacity	1				each	1.000
						Total	each	2.000
4	79	Supplying fitting & fixing phase 50 Hz 250v AC			ouble beari	ng self lubt	icating typ	oe single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000
		DRAINAGE						
		Plain cement concrete	worke					
5	2.1	foundation bed for foots shall be measured and	ng step	os, walls, br				
5	2.1	foundation bed for foots shall be measured and (a) In prop. 1:3: 6	ng step	os, walls, br				
5	2.1	foundation bed for foots shall be measured and [a] (a) In prop. 1:3: 6 Side Drain	ng step	os, walls, br parately).	ick works e	etc (shutteri		necessary
5	2.1	(a) In prop. 1:3: 6 Side Drain Base	ing step paid se	parately).	0.450	0.300		necessary 2.97
5	2.1	foundation bed for foots shall be measured and [a] (a) In prop. 1:3: 6 Side Drain	ing ster paid se	os, walls, br parately).	ick works e	etc (shutteri	ing where	2.97 0.99
5	2.1	(a) In prop. 1:3: 6 Side Drain Base	ing step paid se	parately).	0.450	0.300	cum	2.97 0.99
6	2.5.1	foundation bed for foots shall be measured and properties (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level.	ng steppaid se	22.00 22.00	0.450 0.075	0.300 0.300 Total	cum cum cum cum	2.97 0.99 3.96
		foundation bed for foots shall be measured and partial (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and subplinth beam, pile cap, re	ng steppaid se	22.00 22.00	0.450 0.075	0.300 0.300 Total	cum cum cum cum	2.97 0.99 3.96
		foundation bed for foots shall be measured and partial (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and subplinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural	ng steppaid se	22.00 22.00	0.450 0.075	0.300 0.300 Total	cum cum cum cum	2.97 0.99 3.96
		foundation bed for foots shall be measured and partial (a) In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	ng steppaid se	22.00 22.00	0.450 0.075	0.300 0.300 Total	cum cum cum cum	2.97 0.99 3.96

7	2.10	Providing form work of and removal of the same centering, shuttering, st	e for co	ncrete men	nbers so as	s to give a r	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						
		Base	1	22.00		1.050	sqm	23.1
		Sides	2	22.00		1.050	sqm	46.2
						Total	sqm	69.300
8	5.1	10 mm thick Cement plainterior plastering						
		d) In cement mortar 1:6	anu .		duning curii	ig complete	as un ec	icu.
		Base	2	22.00		1.050	sqm	46.200
		Sides	1	22.00		1.050	sqm	23.100
						Total	sqm	69.300

	В.	RESUBELPARA GOVT. HIG	HER SE	CONDARY SO	CHOOL, RES	UBELPARA -	CHEMIST	RY LAB
		QUANTITY O	F MATI	ERIALS (AS F	PER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	d and spe	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
2	38.1	Supplying and placing thickness (in mm) sheet lead and two coats of b	ts com	plete with m				
		(b) 1000 litre Capacity	1				each	1.000
						Total	each	2.000
3	79	Supplying fitting & fixin phase 50 Hz 250v AC			ouble beari	ng self lubt	icating ty	pe single
		(a) Medium duty exhaust fan						
			4				each	4.000

	C.	RESUBELPARA GOVT. HI	GHER SI	CONDARY	SCHOOL, RES	SUBELPARA	- BIOLOGY	LAB
		QUANTITY O	F MATE	RIALS (AS I	PER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	and spec	ified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
		Supplying and placing				Total	Rm	18.000
		(b) 1000 litre Capacity	1				each	1.000
4	70	(b) 1000 litre Capacity Supplying fitting & fixin phase 50 Hz 250v AC	g of ex		ouble beari	Total ng self lubt	each each icating typ	2.000
4	79	Supplying fitting & fixin	g of ex		ouble beari		each	2.000
4	79	Supplying fitting & fixin	g of ex		ouble beari		each	2.000
4	79	Supplying fitting & fixin phase 50 Hz 250v AC	g of ex		ouble beari		each	2.000
4	79	Supplying fitting & fixin phase 50 Hz 250v AC	g of ex		ouble beari		each icating typ	2.000 e single
4	79	Supplying fitting & fixin phase 50 Hz 250v AC	g of ex		ouble beari	ng self lubt	each icating typ	2.000 re single 4.000
5	2.1	Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan	g of ex	with coarse	aggregate	Total	each icating typ each each emm to 32m	2.000 ne single 4.000 4.000 mm in
		Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for footi	g of ex	with coarse	aggregate	Total	each icating typ each each emm to 32m	2.000 ne single 4.000 4.000 mm in
		Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for footi shall be measured and	g of ex	with coarse	aggregate	Total	each icating typ each each emm to 32m	2.000 ne single 4.000 4.000 mm in
		Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for footis shall be measured and place of the concrete foundation of the concrete	g of ex	with coarse	aggregate	Total	each icating typ each each emm to 32m	2.000 ne single 4.000 4.000
		Supplying fitting & fixin phase 50 Hz 250v AC (a) Medium duty exhaust fan DRAINAGE Plain cement concrete foundation bed for footi shall be measured and plain for footing footing for footing footing footin	g of ex	with coarse os, walls, bi parately).	aggregate ick works e	Total of sizes 13i	each icating typ each each mm to 32m ing where i	2.000 se single 4.000 4.000 am in specessary

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

6	2.5.1	In Foundation and sub- plinth beam, pile cap, ra thick up to Plinth Level.	ft slab,					
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
		Cover	1	22.00	0.450	0.075	cum	0.74
						Total	cum	0.74
		(b) at below ground level requiring formwork at sides only.		22.00		1.050	0.000	22.4
		Base	1	22.00		1.050	sqm	23.1
		Sides	2	22.00		1.050	sqm	46.2
						Total	sqm	69.300
8	5.1	10 mm thick Cement plainterior plastering						
8	5.1							
8	5.1	interior plastering						ted.
8	5.1	d) In cement mortar 1:6	and s	smooth inclu		g complete	e as direct	

17. Rymbai Government Secondary School, Rymbai:

		RYMBAI GOVERNMEN	IT SECO	NDARY SCHO	OL INTEGRA	TED SCIENC	E LAB	
		QUANTITY (OF MATE	ERIALS (AS P	ER MSOR 20	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste are to be paid separate.	pipe et					
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and oth	er fittings a	as directed	ana specii	ied.
2	34.35.1	H.C.I pipe including bo (a) In exposed	Its and	nuts and oth	er fittings a	as directed	ana specii	ied.
2	34.35.1		Its and	nuts and oth	er fittings a	as directed	and specif	ïed.
2	34.35.1	(a) In exposed	Its and	9.000	er fittings a	as directed	Rm	ied. 18.000

3	79	Supplying fitting & fixing phase 50 Hz 250v AC			ble bearing	self lubtic	ating type	single
		(a) Medium duty						
		exhaust fan						
			4				each	4.000
			-			Total	each	4.000
		DRAINAGE						
4	2.1	Plain cement concrete foundation bed for footi shall be measured and p	ng step	os, walls, brick				
		(a) In prop. 1:3: 6						
		Side Drain		Perimeter				
		Base	1	16.68	0.450	0.300	cum	2.25
		Sides	2	16.68	0.075	0.300	cum	0.75
						Total	cum	3.00
		In Foundation and sub	- struct	ure includina	footing, col		h base. tie	
5	2.5.1	beam, pile cap, raft slab to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	, busc		inci works in			писк ир
		Side Drain						
		0.00 2.00						
		Cover	1	16.68	0.450	0.075	cum	0.56
		Providing form work of						0.56 25mm and
6	2.10		ordinai concre	ry timber plank ete members s	king of thick so as to give	Total kness not e a rough	cum less than i finish inclu	0.56 25mm and uding
6	2.10	Providing form work of removal of the same for centering, shuttering, st	ordinai concre	ry timber plank ete members s	king of thick so as to give	Total kness not e a rough	cum less than i finish inclu	0.56 25mm and uding
6	2.10	Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork	ordinai concre	ry timber plank ete members s	king of thick so as to give	Total kness not e a rough	cum less than i finish inclu the follow	0.56 25mm and uding ing items:
6	2.10	Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only.	ordinai concre trutting	ry timber plank ete members s and propping	king of thick so as to give	Total kness not e a rough ecified for	cum less than i finish inclu	0.56 25mm and uding ing items: 17.514
6	2.10	Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base	ordinar concre trutting	ry timber plank ete members s and propping	king of thick so as to give	Total kness not e a rough ecified for	cum less than i finish inclu the following	uding
		Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides	ordinar concre trutting	ty timber plankete members s and propping	king of thick so as to give g etcspe	Total kness not e a rough r cified for 1.050 1.050 Total	cum less than if finish incluthe following sqm sqm sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542
6	2.10	Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base	ordinar concre trutting	y timber plankete members see and propping 16.68 16.68	king of thick so as to give y etcspe	Total kness not e a rough recified for 1.050 1.050 Total of brick/co	cum less than included the following sqm sqm sqm sqm ncrete wal	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for
		Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement place	ordinar concre trutting	y timber plankete members see and propping 16.68 16.68	king of thick so as to give y etcspe	Total kness not e a rough recified for 1.050 1.050 Total of brick/co	cum less than included the following sqm sqm sqm sqm ncrete wal	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for
		Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting	y timber plankete members see and propping 16.68 16.68	king of thick so as to give y etcspe	Total kness not e a rough recified for 1.050 1.050 Total of brick/co	cum less than included the following sqm sqm sqm sqm ncrete wal	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for
		Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting 1 2 aster in	16.68 16.68 1 single coat of smooth include	king of thick so as to give y etcspe	Total kness not e a rough r cified for 1.050 1.050 Total of brick/co	sqm sqm sqm sqm sqm sqm sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for
		Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting	16.68 single coat of smooth included	king of thick so as to give y etcspe	Total kness not e a rough r cified for 1.050 1.050 Total of brick/co complete a	sqm sqm ncrete war sqm sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028
		Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting	16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68	king of thicks as to give the second	Total kness not e a rough recified for 1.050 1.050 Total of brick/cocomplete 1.050 Total oard partithe Depar	sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028 17.514 52.542 with 6mm
7	5.1	Providing form work of removal of the same for centering, shuttering, st (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting	16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68	king of thicks as to give the second	Total kness not e a rough recified for 1.050 1.050 Total of brick/cocomplete 1.050 Total oard partithe Depar	sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028 17.514 52.542 with 6mm all levels
7	5.1	Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting 1 2 aster in 2 1 xing in ard	16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68	en fair side of thick of the control	Total kness not e a rough recified for 1.050 1.050 Total of brick/cocomplete 1.050 Total oard partithe Depar	sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028 17.514 52.542 with 6mm all levels
7	5.1	Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting 1 2 aster in 2 1 xing in ard be me 1	16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 position plywork complete as	en fair side of third on fair side of third curing on fair side of third curing on fair side of the second of the second on fair second on fa	Total kness not e a rough cified for 1.050 1.050 Total of brick/co complete 1.050 Total oard parti the Deparely). Total od around	sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028 17.514 52.542 with 6mm all levels 2.00 2.00 0 I.S.
7 8	6.33	Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting 1 2 aster in 2 1 xing in ard be me 1 G.I. tan tumino	16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 position plywork complete as	en fair side of third on fair side of third curing on fair side of third curing on fair side of the second of the second on fair second on fa	Total kness not e a rough cified for 1.050 1.050 Total of brick/co complete 1.050 Total oard parti the Deparely). Total od around	sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028 17.514 52.542 with 6mm all levels 2.00 2.00 0 I.S. oat of red
7 8	6.33	Providing form work of removal of the same for centering, shuttering, state (b) at below ground level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	ordinar concre trutting 1 2 aster in 2 1 xing in ard be me 1	16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 16.68 position plywork complete as	en fair side of third on fair side of third curing on fair side of third curing on fair side of the second of the second on fair second on fa	Total kness not e a rough cified for 1.050 1.050 Total of brick/co complete 1.050 Total oard parti the Deparely). Total od around	sqm	0.56 25mm and uding ing items: 17.514 35.028 52.542 Ils for d. 35.028 17.514 52.542 with 6mm all levels 2.00 2.00 0 I.S.

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

18. Sibsingh Memorial Government Higher Secondary School, Nongstoin:

		SIBSINGH MEMORIAL GOV QUANTITY O			PER MSOR 2			
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete				
		(a) White	_					
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	and spec	ified.
		(a) In exposed						
		surfaces or in trenches.	2					40.000
		(i) 150mm dia.	2	9.000			Rm	18.000
		Supplying and placing				Total	Rm	18.000
3	38.1	Liead and two coats of b	ITIIMING	iis naint				
		(b) 1000 litre Capacity	1	us paint.			each	1.000
		(b) 1000 litre Capacity	1	us paint.		Total	each	
		(b) 1000 litre Capacity DRAINAGE	1	•			each	1.000
5	2.1	(b) 1000 litre Capacity	1 works ving step	with coarse		of sizes 13 <i>i</i>	each	1.000 nm in
		(b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and	1 works ving step	with coarse		of sizes 13 <i>i</i>	each	1.000 nm in
		(b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and [a] In prop. 1:3: 6	1 works ving step	with coarse		of sizes 13 <i>i</i>	each	1.000 nm in necessary
		(b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and [a] In prop. 1:3: 6 Side Drain	works works works works works	with coarse os, walls, br parately).	ick works e	of sizes 13ı tc (shutteri	each mm to 32m	1.000 nm in necessary 7.96
		(b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain Base	works wing steppaid se	with coarse os, walls, br parately). 58.97	0.450	of sizes 13i tc (shutteri 0.300 0.300	each mm to 32m ng where i	7.96 2.65
		(b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain Base	works wing steppaid se	with coarse os, walls, broparately). 58.97 58.97	0.450 0.075	of sizes 13i itc (shutteri 0.300 0.300 Total columns wi	each mm to 32m ng where i	7.96 2.65 10.61
5	2.1	DRAINAGE Plain cement concrete foundation bed for foots shall be measured and plants. Side Drain Base Sides In Foundation and subplinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	works wing steppaid se	with coarse os, walls, broparately). 58.97 58.97	0.450 0.075	of sizes 13i itc (shutteri 0.300 0.300 Total columns wi	each mm to 32m ng where i	7.96 2.65 10.61
5	2.1	DRAINAGE Plain cement concrete foundation bed for foots shall be measured and [a] In prop. 1:3: 6 Side Drain Base Sides In Foundation and sub plinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural	works wing steppaid se	with coarse os, walls, broparately). 58.97 58.97	0.450 0.075	of sizes 13i itc (shutteri 0.300 0.300 Total columns wi	each mm to 32m ng where i	7.96 2.65 10.61
5	2.1	DRAINAGE Plain cement concrete foundation bed for foots shall be measured and plants. Side Drain Base Sides In Foundation and subplinth beam, pile cap, rathick up to Plinth Level. (a) M15 or Prop. 1:2:4 (for non-structural works)	works wing steppaid se	with coarse os, walls, broparately). 58.97 58.97	0.450 0.075	of sizes 13i itc (shutteri 0.300 0.300 Total columns wi	each mm to 32m ng where i	7.96 2.65 10.61

7	2.10	Providing form work of and removal of the same centering, shuttering, st	e for co	ncrete mer	nbers so as	to give a r	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						
		Base	1	58.97		1.050	sqm	61.9185
		Sides	2	58.97		1.050	sqm	123.837
						Total	sqm	185.756
8	5.1	10 mm thick Cement pl interior plastering						
		d) In cement mortar 1:6						
		Base	2	58.97		1.050	sqm	123.837
		Sides	1	58.97		1.050	sqm	61.919
						Total	sqm	185.756

	B. SIE							
		QUANTITY C	F MATE	RIALS (AS F	PER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
2	34.35.1	H.C.I pipe including bo	Its and	nuts and or	ther fittings	as directed	and spec	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	38.1	Supplying and placing thickness (in mm) shee lead and two coats of b	ts com	olete with m				
3	38.1	thickness (in mm) shee lead and two coats of b (b) 1000 litre Capacity	ts com	olete with m				
3	38.1	thickness (in mm) shee lead and two coats of b	ts comp itumino	olete with m		erwit	each	1.000
5	2.1	thickness (in mm) shee lead and two coats of b (b) 1000 litre Capacity	ts compituming 1 works wing step	olete with mous paint. with coarse os, walls, br	aggregate	Total of sizes 13r	each each mm to 32n	1.000 1.000 nm in
		thickness (in mm) shee lead and two coats of be (b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots	ts compituming 1 works wing step	olete with mous paint. with coarse os, walls, br	aggregate	Total of sizes 13r	each each mm to 32n	1.000 1.000 nm in
		thickness (in mm) shee lead and two coats of be (b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foot shall be measured and	ts compituming 1 works wing step	olete with mous paint. with coarse os, walls, br	aggregate	Total of sizes 13r	each each mm to 32n	1.000 1.000 nm in
		thickness (in mm) shee lead and two coats of be (b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and (a) In prop. 1:3: 6	ts compituming 1 works wing step	olete with mous paint. with coarse os, walls, br	aggregate	Total of sizes 13r	each each mm to 32n	1.000 1.000 nm in
		thickness (in mm) shee lead and two coats of be (b) 1000 litre Capacity DRAINAGE Plain cement concrete foundation bed for foots shall be measured and (a) In prop. 1:3: 6 Side Drain	ts compituming 1 works wing steppaid se	with coarse os, walls, br	aggregate	Total of sizes 13rtc (shutteri	each each mm to 32m ng where	1.000 1.000 mm in necessary

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

6	2.5.1	In Foundation and sub- plinth beam, pile cap, ra thick up to Plinth Level.	ft slab,					
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
		Cover	1	58.97	0.450	0.075	cum	1.99
						Total	cum	1.99
		(b) at below ground level requiring formwork at sides only.						
		Base	1	58.97		1.050	sqm	61.9185
		Sides	2	58.97		1.050	sqm	123.837
					<u>"</u>	Total	sqm	185.756
8	5.1	10 mm thick Cement plainterior plastering						
		d) In cement mortar 1:6						
		Base	2	58.97		1.050	sqm	123.837
		Sides	1	58.97		1.050	sqm	61.919
						Total	sqm	185.756

19. Sohkha Government Higher Secondary School, Sohkha:

		SOHKHA GOVT. HIGH	ER SECO	NDARY SCH	IOOL, SOHK	HA - SCIENC	E LAB	
		QUANTITY O	F MATE	RIALS (AS	PER MSOR 2	2015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing with rubber plug, PVC coupling are to be paid	vaste p	ipe etc. coi				
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,

Ph-0364-2226062, 2225083/Fax: 0364-2226062

20. Tirot Sing Memorial Government Higher Secondary School, Nongkhlaw:

TIR	OT SING	MEMORIAL GOVT. HIGHEI	R SECON	IDARY SCHO	OL, NONG	(HLAW INTE	GRATED S	CIENCE LAB
		QUANTITY O	F MATE	RIALS (AS F	PER MSOR 2	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste coupling are to be paid	pipe e	tc. complete	with CI/MS e etc. (Sink	brackets, (cock, stop	C.P. brass cocks, wa	s chain with aste
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and o	ther fittings	as directed	d and spe	cified.
		(a) In exposed surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	79	Supplying fitting & fixin phase 50 Hz 250v AC			ouble beari	ng self lubt	ticating ty	pe single
		(a) Medium duty exhaust fan						
			2				each	2.000
						Total	each	2.000
		DRAINAGE						
4	2.1	Plain cement concrete foundation bed for foot shall be measured and	ing step	os, walls, br				
		(a) In prop. 1:3: 6						
		Side Drain						
		Base	1	29.40	0.450	0.300	cum	3.97
		Sides	2	29.40	0.075	0.300	cum	1.32
						Total	cum	5.29
5	2.5.1	In Foundation and sub plinth beam, pile cap, ra thick up to Plinth Level.	aft slab,					
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
		Cover	1	29.40	0.450	0.075	cum	0.99
						Total	cum	0.99

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

6	2.10	Providing form work of and removal of the sam centering, shuttering, st	e for co	ncrete mer	nbers so as	to give a r	ough fini	sh including
		(b) at below ground level requiring formwork at sides only.						
		Base	1	29.40		1.050	sqm	30.87
		Sides	2	29.40		1.050	sqm	61.74
						Total	sqm	92.610
7	5.1	10 mm thick Cement pl interior plastering						
		d) In cement mortar 1:6						
		Base	2	29.40		1.050	sqm	61.740
		Sides	1	29.40		1.050	sqm	30.870
						Total	sqm	92.610
		Providing, fitting and fi						
8	6.33	thick ply board / hardbo					artment f	or all levels
		(Painting / Varnishing to		asured and	d paid sepa	rately).		
		(a)6mm thick Ply board	1	2.00	1.00		sqm	2.00
						Total	sqm	2.00

21. Umthlong Nongthliew Government Higher Secondary School, Nongthliew:

UN	/ITHLON	G NONGTHLIEW GOVT. HI	GHER SE	ECONDARY SO LAB	CHOOL, NON	NGTHLIEW II	NTEGRATE	D SCIENCE
		QUANTITY (OF MAT	ERIALS (AS P	ER MSOR 20	015-16)		
SI. No.	Code. No.	Description of Items	Nos.	Length (m)	Breadth (m)	Height/ Depth (m)	Unit	Qty
1	34.16	Providing fitting & fixing rubber plug, PVC waste are to be paid separately	pipe e					
		(a) White						
		(i) Size 450 x 300 x 150	2				each	2.000
						Total	each	2.000
2	34.35.1	H.C.I pipe including bo	Its and	nuts and oth	er fittings a	as directed	and spec	ified.
		(a) In exposed						
		surfaces or in trenches.						
		(i) 150mm dia.	2	9.000			Rm	18.000
						Total	Rm	18.000
3	79	Supplying fitting & fixing phase 50 Hz 250v AC			uble bearin	g self lubtio	cating typ	e single
		(a) Medium duty exhaust fan						
			4				each	4.000
						Total	each	4.000

		DRAINAGE						
4	2.1	Plain cement concrete foundation bed for footi shall be measured and p	ng step	os, walls, bric				
		(a) In prop. 1:3: 6						
		Side Drain		Perimeter				
		Base	1	54.14	0.450	0.300	cum	7.3
		Sides	2	54.14	0.075	0.300	cum	2.44
						Total	cum	9.7
5	2.5.1	In Foundation and sub beam, pile cap, raft slab to Plinth Level.						
		(a) M15 or Prop. 1:2:4 (for non-structural works)						
		Side Drain						
		Cover	1	54.14	0.450	0.075	cum	1.83
						Total	cum	1.83
		(b) at below ground						
		(b) at below ground level requiring formwork at sides only.						
		level requiring formwork	1	54.14		1.050	sqm	56.84
		level requiring formwork at sides only.	1 2	54.14 54.14		1.050 1.050	sqm sqm	
		level requiring formwork at sides only. Base					•	113.69
7	5.1	level requiring formwork at sides only. Base	2 aster in	54.14 single coat of		1.050 Total of brick/co	sqm sqm ncrete wa	113.694 170.54 Ils for
7	5.1	level requiring formwork at sides only. Base Sides 10 mm thick Cement place	2 aster in	54.14 single coat of		1.050 Total of brick/co	sqm sqm ncrete wa	113.69- 170.54 Ils for
7	5.1	level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	2 aster in	54.14 single coat of		1.050 Total of brick/co	sqm sqm ncrete was	113.694 170.54 Ils for d.
7	5.1	level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	2 aster ir and	54.14 n single coat of smooth include		1.050 Total of brick/co complete	sqm sqm ncrete wa	113.694 170.54 Ils for d.
7	5.1	level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	aster inand	54.14 single coat of smooth included 54.14		1.050 Total of brick/co complete a	sqm sqm ncrete watas directed	113.69- 170.54 Ils for d. 113.69- 56.84
7	6.33	level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	aster inand s	54.14 54.14 54.14 position plyw. complete as	ood / hardb	1.050 Total of brick/co complete a 1.050 1.050 Total oard partithe Depart	sqm sqm ncrete watas directed sqm sqm sqm sqm sqm	113.694 170.54 Ils for d. 113.694 56.84 170.54 with 6mm
		level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	aster inand s	54.14 54.14 54.14 position plyw. complete as	ood / hardb	1.050 Total of brick/co complete a 1.050 1.050 Total oard partithe Depart	sqm sqm ncrete watas directed sqm sqm sqm sqm sqm	113.69 ⁴ 56.84 ⁷ 170.54 ⁴ with 6mm
		level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	aster inand s	54.14 54.14 54.14 position plyword as a sured and process.	ood / hardb	1.050 Total of brick/co complete a 1.050 1.050 Total oard partithe Depart	sqm sqm ncrete war as directed sqm sqm sqm sqm tion walls	113.694 170.54 Ils for d. 113.694 56.84 170.54 with 6mm all levels
		level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	2 2 1 xing in ard	54.14 54.14 54.14 position plyw. complete as easured and p	vood / hardb directed by paid separate	1.050 Total of brick/co complete a 1.050 1.050 Total oard partitle Departely).	sqm sqm ncrete watas directed sqm sqm sqm sqm sqm tion walls tment for	113.694 170.54 Ils for d. 113.694 56.84 170.54 with 6mm all levels
8	6.33	level requiring formwork at sides only. Base Sides 10 mm thick Cement plainterior plastering	2 2 1 xing in ard	54.14 54.14 54.14 position plyw. complete as easured and p	vood / hardb directed by paid separate	1.050 Total of brick/co complete a 1.050 1.050 Total oard partitle Departely).	sqm sqm ncrete watas directed sqm sqm sqm sqm sqm tion walls tment for	113.694 170.547 Ils for d. 113.694 56.847 170.547 with 6mm all levels

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,

Ph-0364-2226062, 2225083/Fax: 0364-2226062

ANNEXURE II

36. Pre-Qualification Bid Checklist:

Sl. No.	Description	Submitted Yes/No.	Page No.
1.	Name of the Company/Firm/Organization		
2.	Attested Copy of the Schedule Caste / Schedule Tribe Certificate for Tribal Firms		
3.	Attested Copy of Up to date GST Certificate		
4.	Attested Copy of Up to date Professional Tax Clearance certificate issued by KHADC/JHADC /GHADC		
5.	E-Mail ID		
6.	Security deposit (EMD) of Rs.200000 payable at Shillong (Annexure X)		
7.	Letter of Undertaking for authorize signatory as per Annexure VI)		
8.	Affidavit as per Annexure VII		
9.	Declaration as per Annexure VII typed on Company letter head uploaded		
10.	Detail Specification Annexure-I		
11.	Technical bid Annexure-III and Financial Bid Format Annexure-IV		
12.	Copy of latest Income Tax Return for last three years(Annexure VIII)		
13.	Copy of audited last three years turnover (Annexure IX)		
14.	Performance Security Deposit (Annexure XI)		

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE III

37. Technical Bid:

III.1 Science Lab Equipments:

S.No	Criteria	Max Marks	Evaluation
Experience			
1	Experience in similar large scale Government orders of INR 1 crore and above in single contract within last 3 years	5 mark for each such Order Max Marks:20	Copies of work orders
2	Experience of Similar projects in North eastern state	5 mark for each such Project Max Marks:20	Client Certificate, Completion certificate
3	CE/USFDA/BIS/ISO Quality Standards	5 mark for each such Certificate Max Marks:20	Certifications
	TOTAL (A)	60	
Specification	ons		
1	Adherence to Specifications of the product offered – Dimensions Quality, Finishing, Material	1 Mark per item 350 Items x 1 Mark=350 maximum marks Pro rata equivalent marks (10 Marks if Full Compliant)	Sample product(Compliance to Specifications as per Annexure 1)
Total (B)		230	
TOTAL Marks (A+B)		290	

III.2 Furniture

S.No	Criteria	Max Marks	Evaluation
Experience			
1	Experience in similar large scale Government orders of INR 1 crore and above in single contract within	5 mark for each such Order	Copies of work orders
	last 3 years	Max Marks:25	
2	Experience of Similar projects in North eastern state	5 mark for each such Project Max Marks:25	Client Certificate, Completion certificate
3	CE/USFDA/BIS/ISO Quality Standards	5 mark for each such Certificate Max Marks:2	Certifications
	TOTAL (A)	75	

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

Specificati	Specifications				
1	Adherence to Specifications of the product offered – Dimensions Quality, Finishing, Material	1 Mark per item 621 Items x 1 Mark=621 maximum marks Pro rata equivalent marks (10 Marks if Full Compliant)	Sample product(Compliance to Specifications as per Annexure 1.2)		
TOTAL (B)		230			
Total Marks (A+B)		305			

III.3 Civil Works:

S.No	Criteria	Max Marks	Evaluation
Experience			
1	Experience in similar large scale Government orders of INR 1 crore and above in single contract within	5 mark for each such Order Max Marks: 25	Copies of work orders
2	last 3 years Experience of Similar works in North eastern state	5 mark for each such Project Max Marks:25	Client Certificate, Completion certificate
3	BIS Quality Standards	5 mark for such Certificate Max Marks:25	Certifications
Total(A)		75	
Specificati	ons		
1	Adherence to Civil Work Requirements of Schools ,as per Annexure V & sub annexure I.3 Compliance Dimensions Quality, Finishing, Material	10 Mark for full compliance to specifications per school Pro rata Score	Compliance Sheet(as per Annexure V) 1 mark per item ,as per Quantity of Materials, as per Annexure 1.3)
Total (B)		230	
Total Marks(A+B)		305	

Signature, Name of Authorized Person of the Bidder with seal Date

Place:

Contact Cell No.:

Email ID :

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> <u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE IV

38. Financial Bid:

(A) Science Lab Equipments

SL. No	Name of the item (as per Annexure-I)	Price/unit (Inclusive of all taxes in Rs.) Per unit(A)	Custom Duty/Excise Duty/ Custom Clearance Charges/ Agency Commission(B)	<u>Unit</u> <u>Each</u>	Total cost/unit (A+B)

(B) Furniture

SL. No	Name of the item (as per Annexure-I)	Price/unit (Inclusive of all taxes in Rs.) Per unit(A)	Custom Duty/Excise Duty/ Custom Clearance Charges/ Agency Commission(B)	<u>Unit</u> <u>Each</u>	Total cost/unit (A+B)

(C) Civil Works:

	Physics Lab	Chemistry Lab	Biology Lab	Integrated Lab	
School Name	Civil Works/ Electricity	Civil Works/ Electricity	Civil Works/ Electricity	Civil Works/ Electricity	Total Estimation
	Total of 28 Schools				

Total Financial Bid:

Component	Component	Component	Grand Total
(A)Science Equipments	(B)Furniture	(C)Civil Works:	(A)+(B)+(C)

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

Note:

- 1. The rates should be inclusive of everything viz.(FOR at each School) Freight, Packing, Forwarding, Insurance, Transportation, loading/unloading, Sales Tax/GST, as per requirement of equipment items indicated in the Annexure-I Technical Specification
- 2. *The Excise Duty/Custom Duty, Custom Clearance Charges, Agency Commission etc. wherever applicable, should be indicated separately in the respective column in the above Financial Bid. Non- indication will denote that nothing will be charge as Custom Duty Custom Clearance/Agency Charge/Excise Duty etc.
- 3. The Bidder will quote firm rates inclusive of all Taxes & expenditure.
- 4. The Rates quoted against items on the Tender shall be without cutting, tampering and a Transparent Tape should be applied on the Quoted Rates.
- 5. Rates Quoted should be typed and free from Fluiding, Cutting and Overwriting. No hand written quotations will be accepted. A soft copy of the same shall be required to be submitted compulsorily in a CD for easier compilation of the rates.
- 6. L1 will be decided on total cost of the Equipments (i.e. Annexure: III) and total cost of CMC charges (i.e. Annexure: IV)

Signature, Name of Authorized Person of the Bidder with seal Date:

Place:

Contact Cell No.:

Email ID:

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>

<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE V

39. Civil Works Compliance

Compliance Sheet for Civil Works for Science Lab					
Sl. No	District Name	School Name	Civil Works Specifications	Compliance	Total Marks (10 Marks if Full Compliant)
1	E (171 ; 11:11	Govt. Boy's Higher Secondary School, Shillong	As per Annexure I.3		•
2	East Khasi Hills	Govt. Girl's Higher Secondary School, Shillong	As per Annexure I.3		
3		Sibsingh Memorial Govt. Higher Secondary School, Nongstoin	As per Annexure I.3		
4	West Khasi	Mallangkona Govt. Higher Secondary School, Mallangkona	As per Annexure I.3		
5	Hills	Tirot Sing Memorial Govt. Higher Secondary School, Nongkhlaw	As per Annexure I.3		
6		Umthlong Nongthliew Govt. Higher Secondary School, Nongthliew	As per Annexure I.3		
7	South West Khasi Hills	Maharam Govt. Higher Secondary School, Mawkyrwat	As per Annexure I.3		
8		Govt. Boy's Higher Secondary School, Jowai	As per Annexure I.3		
9	West Jaintia	Govt. Girl's Higher Secondary School, Jowai	As per Annexure I.3		
10	Hills	Sohkha Govt. Higher Secondary School, Sohkha	As per Annexure I.3		
11		Nongtalang Govt. Secondary School, Nongtalang	As per Annexure I.3		
12	East Jaintia Hills	Rymbai Govt. Secondary School, Rymbai	As per Annexure I.3		
13	D: Dho:	Partharkhmah Govt. Higher Secondary School	As per Annexure I.3		
14	Ri- Bhoi	Jirang Govt. Higher Secondary School, New Jirang	As per Annexure I.3		
15		Govt. Boy's Higher Secondary School, Tura	As per Annexure I.3		
16	West Garo Hills	Govt. Girl's Higher Secondary School, Tura	As per Annexure I.3		
17	west Galo fills	Dalu Govt. Higher Secondary School, Dalu	As per Annexure I.3		
18		Dadenggiri Govt. Higher Secondary School, Dadenggiri	As per Annexure I.3		
19	South West Garo Hills	Ampati Govt. Higher Secondary School, Ampati	As per Annexure I.3		
20	East Garo Hills	Rongrenggiri Govt. Higher Secondary School, Rongrenggiri	As per Annexure I.3		
21	North Garo	United Kharkutta Govt. Higher Secondary School, Kharkutta	As per Annexure I.3		
22	Hills	Resubelpara Govt. Higher Secondary School, Resubelpara	As per Annexure I.3		
23	South Garo Hills	Baghmara Govt. Higher Secondary School, Baghmara	As per Annexure I.3		
	Index: R=Respon	nsive, NC=Not Complied , PR=Partially Responsive			

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u> Ph-0364-2226062, 2225083/Fax: 0364-2226062

ANNEXURE VI

40. Letter of Undertaking:

To,

The Director of School Education & Literacy

Shillong, Meghalaya

Tender No:

Tender Date:

Sir / Madam,

- 1. I, Shri on behalf of having its registered office at and its branch office at do hereby declare to comply with all the Terms and Conditions as specified in the RFP. The Rates quoted by me / us are valid and binding on me / us for acceptance for a period of one year from the date of award of contract to us.
 - 2. We agree to the conditions of the tender under which the Earnest Money Deposit shall be forfeited by us.
 - 3. The tender inviting authority has the right to accept or reject any or all the Tenders without assigning any reason thereof.
 - 4. We understand all the Terms and Conditions of the Contract and bind myself / ourselves to abide by them.
 - 5. I hereby furnish the following details as specified in the RFP:

FIRM DETAILS

Firm Name:

Proprietorship / Entrepreneurship / Holding:

Company, Partnership Firm:

Name of Proprietor / Director / CEO / Others:

Address:

Telephone Number:

Fax Number:

Mobile Number:

Email Id:

BANK

DETAILS

Bank Name:

Address:

Account Number:

IFSC Code:

NEFT Code:

- 6. We hereby declare that as per the attached Affidavit, there is no vigilance / CBI or Court Case pending / Contemplated against us at the moment.
- 7. All information provided is True & Accurate. If at any time it is found that any information provided is proven false, I agree to the Cancellation / Termination of the Tender / Agreement leading up to blacklisting of the said firm under the Government of Meghalaya for a period of three years.

SIGNATURE:

NAME & ADDRESS OF BIDDER:

DATE:

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE VII

41. Declaration:

(To be submitted by the bidder firm on non-judicial stamp paper of Rs. 10/- (Rupees Ten only) duly attested by Public Notary along with Technical Bid)

atteste	ted by Public Notary along with	Technical Bid)	
<u>AFFI</u>	<u>IDAVIT</u>		
	Ι,	s/d/o	r/o Director/Director/Authorized Signator
	in capacity of Propri f M/s		
	solemnly affirm and	declare that:	
1.	I/we have read all terms and abide by them faithfully.	d conditions of the Tender	Document carefully and undertake
2.	My/our organization does no of PF/ESI/MW Act or any of	, ,	nal case pending against it for violation
3.	My/our firm has not been organization.	blacklisted or debarred l	by any state or Central governme
4.	•	ong any state or Cer	f spurious Material and has not been tral government organization for
5.	The information furnished best of my knowledge.	in all parts of this Tender	Document is accurate and true to the
6.	My/our firm shall not pay an	y type of commission to an	y person in regards to this tender.
7.	My/our firm will not place at the DSEL,Shillong.	any other material in additi	ion in any case to the order placed b
8.			eclaration are found false, I/we shall be g criminal/civil prosecution under law
Signa	ature		
Date:	:		
Place	e:		

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062

ANNEXURE VIII

42. Income Tax Return	<u>ı:</u>	
a) Name of the firm		
b) Address		
Financial Year	IT Returns (Attached/Not Attached)	

SIGNATURE NAME & ADDRESS OF BIDDER DATE

$\underline{\text{OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION \& LITERACY, SHILLONG, MEGHALAYA}}$

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE IX

	OVER STATEMENT OF TH	<u>IE BIDDER:</u>
a) Name of the firm		
b) Address		
c) Annual turnover	for the last three years	
(In INR)	-	
,		
F'	T	D.1

Financial	Turnover	Balance Sheet etc. Authenti		
year	(Rs. in Lakh)	Chartered Accountant		
2014-15		Attached/Not Attached		
2015-16		Attached/Not Attached		
2016-17		Attached/Not Attached		

Seal & Signature of Chartered Accountant / Auditor Date:

Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062

ANNEXURE X

44. Bid Security (EMD) Form:

Whereas		(Hereinafter	called "th	ne Bidder")	has
submitted its bid dated	for the supply of				vide
Tender			No		
dated KNOW ALL	MEN by these preser	nts that WE			
having our o	office at		(1	hereinafter c	alled
"the Bidder") are bound unto The	Director of School Edu	ucation & Li	teracy,Shil	long (herein	ıafter
called "the Purchaser") the sum of	Rs vide DD	no	fo	r which pay	ment
will and truly to be made of the said	d Purchaser, the Bidders	binds itself, it	s successo	rs and assign	is by
these present					

THE CONDITIONS of the obligation are:

- 1. If the Bidder withdraws his bid during the period of bid validity specified by the Bidder on the Bid form, OR
- 2. If the Bidder, having been notified of the acceptance of his bid by the Purchaser during the period of bid validity
 - (a) fails or refuses to execute the Contract, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders.

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand, the purchaser will note that the amount claimed by it is due to it owning to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force as to the bidders of the Bid Document up to and including Ninety (90) days from date of opening the Tender and any demand in respect thereof should reach the Bidder not later than date to be specified.

Signature of the Bidder. Name Signed in Capacity of Full address of Office Tel No. of Office

<u>Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003,</u>
<u>Ph-0364-2226062, 2225083/Fax: 0364-2226062</u>

ANNEXURE XI

45. Performance Security(PSB) Form:			
PERFORMANCE GUARANTEEE No: We have been informed that (insert: name of Supplier) has entered into Contract No. (Insert: reference no of the contract) dated			
Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required. At the request of the Supplier, we (insert: name of bank) hereby irrevocably undertake to pay you a sum or sums not exceeding in total an amount of (Rs 605000) () (Rupees Six Lakhs and Five Thousand only) upon receipt by us of your first demand in writing accompanied by a written statement stating that the supplier is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.			
This guarantee shall expire no later than the Day of, 2, and any demand for payment under it must be received by us at this office on or before that date.			
** The guarantor agrees to extension of this guarantee for a further period in response to the purchaser's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.			
Dated: For (Indicating the name of the Bank)			

N.B. This guarantee should be issued on non-judicial stamped paper, stamped in accordance with the stamp act

OFFICE OF THE DIRECTOR OF SCHOOL EDUCATION & LITERACY, SHILLONG, MEGHALAYA Directorate of School Education & Literacy, Laitumkhrah, Shillong-793003, Ph-0364-2226062, 2225083/Fax: 0364-2226062

ANNEXURE XII:

46. List of Schools:

SL. NO	NAME OF THE SCHOOLS		
	EAST KHASI HILLS DISTRICT, SHILLONG		
1	Govt. Boy's Higher Secondary School, Shillong		
2	Govt. Girl's Higher Secondary School, Shillong		
	RI- BHOI DISTRICT, NONGPOH		
1	Partharkhmah Govt. Higher Secondary School		
2	Jirang Govt. Higher Secondary School, New Jirang		
	WEST KHASI HILLS DISTRICT, NONGSTOIN		
1	Sibsingh Memorial Govt. Higher Secondary School, Nongstoin		
2	Mallangkona Govt. Higher Secondary School, Mallangkona		
3	Tirot Sing Memorial Govt. Higher Secondary School, Nongkhlaw		
4	Umthlong Nongthliew Govt. Higher Secondary School, Nongthliew		
	SOUTH WEST KHASI HILSS DISTRICT, MAWKYRWAT		
1	Maharam Govt. Higher Secondary School, Mawkyrwat		
	WEST JAINTIA HILLS DISTRICT, JOWAI		
1	Govt. Boy's Higher Secondary School, Jowai		
2	Govt. Girl's Higher Secondary School, Jowai		
3	Sohkha Govt. Higher Secondary School, Sohkha		
4	Nongtalang Govt. Secondary School, Nongtalang		
	EAST JAINTIA HILLS DISTRICT, KHLIEHRIAT		
1	Rymbai Govt. Secondary School, Rymbai		
	WEST GARO HILLS DISTRICT, TURA		
1	Govt. Boy's Higher Secondary School, Tura		
2	Govt. Girl's Higher Secondary School, Tura		
3	Dalu Govt. Higher Secondary School, Dalu		
4	Dadenggiri Govt. Higher Secondary School, Dadenggiri		
5	Tura Public School		
	SOUTH WEST GARO HILLS DISTRICT, AMPATI		
1	Ampati Govt. Higher Secondary School, Ampati		
	EAST GARO HILLS DISTRICT, WILLIAMNAGAR		
1	Rongrenggiri Govt. Higher Secondary School, Rongrenggiri		
	NORTH GARO HILLS DISTRICT, RESUBELPARA		
1	Resubelpara Govt. Higher Secondary School, Resubelpara		
	SOUTH GARO HILLS DISTRICT, BAGHMARA		
1	Baghmara Govt. Higher Secondary School, Baghmara		