

A.NOTICE INVITING TENDER

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

शिक्षामंत्रालय, भारतसरकारकेअधीनएकराष्ट्रीयमहत्वकासंस्थान

An Institute of National Importance under Ministry of Education (ShikshaMantralaya), Govt. of India

Tender Notice No.NITMGH/EN/TENDERS/18/2024-25/114

Dated: 15.10.2024

1. NIT Meghalaya invites online Tenders through CPP Portal <https://eprocure.gov.in/eprocure/app> from registered & eligible contractors/firms having sufficient credentials and financial capability for the following work.

Prescribed Tender document, detailed fees and specifications, bid instructions and Terms & Conditions can be downloaded from the CPP Portal (<https://eprocure.gov.in/eprocure/app>) or from the Institute website (<http://www.nitm.ac.in/>). However, the bidding process (submission and finalization) will be done in online mode at CPP Portal. The bidders may submit their bid only through uploading in the CPP Portal <https://eprocure.gov.in/eprocure/app>

Sl.No.	Description	Details
1.	Title of work	Construction of RCC Weir, Sump Well, Pump House, Fencing and Laying of Pipes including Electrical Power Supply for Drawing/Tapping of Water from Wah Khlek Khlek to Water Treatment Plant (WTP) and Water Storage Reservoir (WSR) at NIT Meghalaya Permanent Campus, Saitsohpen, Sohra
2.	Estimated cost put to tender	Rs. 2,57,84,219/-
3.	Period of completion in months reckoned from the 15th day of date of issue of work order.	12 (twelve) months.
4.	Cost of tender document.	N/A
5.	Date of Publishing	15.10.2024 at 17:00 hrs
6.	Bid Document Download Date	15.10.2024 at 17:00 hrs
7.	Bid Submission Start Date	15.10.2024 at 17:30 hrs
8.	Bid Submission End Date	04.11.2024 at 13:00 hrs
9.	Bid Opening Date	05.11.2024 at 15:00 hrs
10.	Earnest money deposit (EMD)	Rs. 5,15,685/-

**Sd/-
Director,
NIT Meghalaya**

2. Eligibility Criteria:

The agency shall fulfill the following conditions.

Sl.No.	Eligibility Criteria	Documentary proof for the eligibility (To be scanned & uploaded)
1.	Should have satisfactorily completed the works as mentioned below during the last Seven years. i. Three similar works each costing not less than 40% of the estimated cost (i.e. Rs.103.13 lakhs) (or) ii. Two similar works each costing not less than 60% of the estimated cost (i.e. Rs. 154.70 lakh) (or) iii. One similar work costing not less than 80% of the estimated cost, (i.e. Rs. 206.27 lakhs)	i. Work orders and completion certificates issued by the authority concerned to establish work experience. ii. Completion certificates for works issued by private parties shall be supported by TDS (Tax Deducted at Source) certificates.
	Note: i. Similar work shall mean <u>Execution of Civil works.</u> ii. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to last date of receipt of application for bids.	
2.	Should have had average annual financial turnover not less than 30% of the estimated cost (i.e. Rs. 77.35 lakhs) of the work during the last three years ending 31st March 2023.	Chartered Accountant certificate for the Annual financial turnover and balance sheet showing Profit & Loss.
3.	Should not have incurred any loss in more than two years during the last five years ending 31st March 2023	
4.	Should have a solvency of 40% of the estimated cost of the work (i.e. Rs. 103.13 lakhs)	Current solvency certificate from any Scheduled Bank.
5.	The bidding capacity of the contractor should be more than the estimated cost of the work put to tender. The bidding capacity shall be worked out and declared by the tenderer and enclosed with the request for tender document based on the formula: $(A \times N \times 2) - B$	i. A statement of ongoing works indicating financial commitment for each of these works during the stipulated period of completion mentioned for the subject tender as per Format-1 enclosed herewith is to be furnished. This is required in support of parameter 'B'.

	where, A- Maximum value of work executed in one year (maximum turnover in one year) during last 5 years at current price level taking into account the work completed as well as work in progress. B- Value of existing commitments and ongoing work to be completed during the next 'N' years at current price level. N- Number of years prescribed for completion of the subject contract for which bids are invited	ii. Current costing level for value of work may be worked out as mentioned in the note (ii) above.
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3. Tenderers meeting the above eligibility criteria can upload the detailed tender document on the CPP Portal <https://eprocure.gov.in/eprocure/app> with effect from **15.10.2024 to 05.11.2024**. The tender documents to be accompanied along with all documents as mentioned above should be submitted as on the due date mentioned in para 1 above.
4. The documents furnished by the tenderers will be subjected to verification subsequently by the Institute. If found not meeting the requirements, such offers will be rejected.
5. Tenders should be accompanied with Earnest Money Deposit for value specified in Para 1 above, in the form of Demand Draft/Deposit at Call receipt/ Term Deposit Receipt of any Scheduled Bank issued in favour of **Director, NIT Meghalaya Shillong, payable at SBI Malki (Dhanketi), Shillong** (or) in the form of Bank Guarantee issued by a scheduled bank. Earnest Money Deposit shall be valid for **180 days** from the due date of receipt of tenders.
6. The bidders should download the **BoQ.xls** from CPP Portal and filled in the blank spaces provided for mentioning the name of bidder and rates. Bidders need not modify any other text or background shown in the BOQ template or replace it with any other copy of same **BOQ in .xls format**. NIT Meghalaya /Central Public Procurement Portal (www.eprocure.gov.in) will accept the BOQ template only and hence the rate should not be quoted in any other place except BOQ template
7. The technical bids will be opened online by a committee of members duly constituted for the purpose at the time and date as specified in the tender document. All statements, documents, certificates, Affidavits, etc uploaded by the bidders will be verified and downloaded for technical evaluation and the result of technical bid evaluation will be displayed on www.eprocure.gov.in. in which can be seen by all bidders who participated in the tender.
8. The Financial bid (price bid) i.e. Bill of Quantity (BOQ) of only technically qualified bidders will be opened by a committee of members and the result will be displayed on the www.eprocure.gov.in. in which can be seen by all bidders who participated in the tender.

9. The offer must be submitted in Two Bid – Two Files/Covers only through uploading in the CPP Portal, before the last date & time for bid submission. Bidders must submit their digitally signed bids. The covers will contain the following documents:
- Cover 1 which consists of technical requirements and general terms & conditions along with credentials.
 - Cover 2 which consist of the Price Bid (BoQin Ms-Excel format).
10. Tenderer(s) quoted below the tender value of the work shall not be accepted.
11. Tenderers shall sign all the pages of Technical & Commercial Bid and Price Bid without fail. The full set of tender document, duly filled in at required pages, along with drawings (if supplied) should be submitted along with the tender.
12. On the due date of opening, the Cover (i) will be opened initially of those tenderers who furnished valid EMD. On opening of Technical&Commercial Bid, further detailed scrutiny / evaluation will be carried out. During the evaluation of techno-commercial bids, the documents furnished by the tenderers will be scrutinized in detail. Any tender, found as not fulfilling the eligibility criteria will be rejected at this stage and such offers will not be considered for further processing. At this stage, the competency of the tenderers will be further evaluated by a Technical Evaluation Committee (TEC),The price bid of only those tenderers who have been qualified during the scrutiny and technical evaluation will be opened separately on a specified date (with due intimation to the qualified bidders) and further processed, as per tender procedure/ stipulations.
13. The contractor, whose offer is accepted, will be required to furnish performance guarantee of 5% of the tendered amount within 15 days from the date of issue of letter of intent/ work order. This guarantee shall be in the form of Deposit at Call receipt/ Term Deposit Receipt of any Scheduled Bank issued in favour of **Director, NITMeghalayaShillong**payable at SBI Malki (Dhanketi,Shillong (or) in the form of Bank Guarantee issued by a scheduled bank in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period specified including the extended period if any, the Earnest Money deposited by the contractor will be forfeited and letter of intent/ work order cancelled automatically without any notice to the contractor. The Earnest Money deposited along with tender shall be refunded only after receiving the aforesaid performance guarantee.
14. Intending tenderers may inspect the site before submitting the tenders, with the prior permission of **Director, NIT Meghalaya**.
15. The **Director,NIT Meghalaya** is not bound to accept the lowest or any other tender and reserves the authority to reject any or all the tenders received without assigning any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
16. The **Director,NIT Meghalaya** reserves the right to alter the scope/ or reduce quantum of work before issue of work order and the tenderer shall not have any claim what so ever on this account.
17. The **Director,NIT Meghalaya** reserves the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

18. Canvassing directly or indirectly, in connection with tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
19. The tenderer shall submit along with the tender all the mandatory documents required for construction works; viz; Registration Certificate, GST Registration, Valid Tax Clearance Certificate, PAN Card, EPIC, ST Certificate, Trading License (as applicable), TIN/TAN, Labour License, EPFO Registration Certificate, Form E, B & C related to Electrical works etc. are to be submitted along with the tender; failing which tender(s) will summarily be rejected.
20. Non-Tribal contractors shall produce/furnish valid "Trading License" issued by the competent authority for undertaking work in Meghalaya as per the extant rules of statutory authority; without which tender shall be disqualified.
21. Contractor shall follow all laws, regulations and acts of Central/ State Government and other statutory bodies relating to engaging labourers in work, wages and all related provisions and indemnify Government/Institute against payment to be made under and for the observance of the said labour laws.
22. The **Director, NIT Meghalaya** reserves the option to give preferences to the offers in accordance with the policies of the Government from time to time.
23. The acceptance of the tender will rest with the **Director, NIT Meghalaya** who does not bind himself to accept the lowest or any other tender. No reasons will be furnished for the acceptance or rejection of any tender. NIT Meghalaya reserves the right to accept or reject any tender without assigning any reason (s) thereof.
24. The contractor shall not be permitted to tender for works in the particular Centre/Section/Department of the Institute responsible for award and execution of contracts for which his/her near relative is working. He/she shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the Institute. Any breach of this condition by the contractor would render him liable for rejection of tender or cancellation of contract.
25. The tender should be valid for **minimum period of 120 days** from the due date of receipt of the tender specified in Para 1 above. If any tenderer withdraws the offer within the validity period or makes any modifications in the terms and conditions of the tender which are not acceptable to the Institute, the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% (Fifty Percent) of the Earnest Money Deposit absolutely. Further, the tenderer shall not be allowed to participate in the re-tendering process of the work.
26. On concluding the tender, an agreement shall be drawn with the successful tenderer.

**Sd/-
Director,
NIT Meghalaya**

**B. DECLARATIONS BY THE
TENDERER/CONTRACTOR**

Item Rate Tender for Works

Memorandum :

a). Tender Notice No. NITMGH/EN/TENDERS/18/2024-25/114

Dated: 15.10.2024

Construction of RCC Weir, Sump Well, Pump House, Fencing and Laying of Pipes including Electrical Power Supply for Drawing/Tapping of Water from Wah Khlek Khlek to Water Treatment Plant (WTP) and Water Storage Reservoir (WSR) at NIT Meghalaya Permanent Campus, Saitsohpen, Sohra.

- b) Estimated cost: Rs 2,57,84,219/-
c) Earnest Money: Rs 5,15,685/-
d) Performance Guarantee: 5%
e) Security Deposit: 5%
f) Time allowed for completion of the work from the 15th day of date of issue of work order: 12 Months

1. I/ We hereby tender for the execution for the Director, NIT Meghalaya for the work specified in the this Written Memorandum and the notification inviting tender (NIT) within the time/s specified in the Memorandum at the rates specified in the attached schedule of quantities (schedule A) on page and in all respects with these specifications, design, drawings and instructions in writing referred to in Rules here of and in clause 11 of the General conditions of Contract (GCC) and with such materials as provided for by and all other respects in accordance with such conditions so far as applicable.
2. Should this tender be accepted in whole or in part, I/We hereby agree to abide by and fulfill all the terms and provisions of General conditions of contract (GCC) and General Guidelines to be read in conjunction with GCC, annexed here to and all the terms and provisions contained in NIT, which has been read by me/ us and explained to me/ us so far as applicable or in default thereof to forfeit and pay to the Government or the successors in office the sums of money mentioned in the said conditions.
3. A sum of Rs..... is hereby forwarded by crossed D.D, Fixed deposit, Bank Guarantee by approved Scheduled bank, Call Receipt of a Scheduled Bank guaranteed by the Reserve Bank of India as Earnest Money. If I/ We fail to commence the work specified in the above Memorandum, I/ We agree that the Director, NIT Meghalaya without prejudice to any other right or remedy be at liberty to forfeit the said EMD absolutely.
4. In the event of accepting my/ our offer by the Institute, I/ We agree to deposit the required Performance Guarantee within 15 days from the date of issue of letter of intent/ work order. In case, if I/ We fail to deposit the same within the period specified including the extended period if any, I/ We agree that the Director, NIT Meghalaya without prejudice to any other right or remedy be at liberty to forfeit the said EMD absolutely.
5. I/ We agree to execute all the works referred to in the tender documents upon the terms and conditions contained or referred therein and to carry out such deviation as may be ordered subject to the condition of clause 12 herein after referred to as the deviation limit at the rates quoted in the tendered documents and those in excess of that limit at the rates to be determined in accordance with the provision contained in clause 12 of the General conditions of Contract (GCC).

6. I/We hereby declare that I/ We shall treat the tender documents, drawings and other records connected with the work as secret/ confidential documents and shall not communicate the same or use the information in any matter prejudicial to the safety of the country.
7. I/ We declare that I/We possess a copy of the Specifications of Civil Engineering works/ Specification for Electrical works/Specification for Air conditioning works of CPWD.
8. I/We also declare that I/We have perused in detail and examined closely the specifications and I/We agree to be bound by and comply with all such specifications for this work.
9. I/We declare that the work will be carried out as per the specification in tender document and as per the specifications said above. The items of work not covered in the specifications said above will be carried out as per the specifications in the relevant CPWD specifications, and if not covered in CPWD specifications the work will be carried out as in the relevant specifications of Bureau of Indian Standard, and if not covered in any of the above, the work will be carried out as directed in writing by the Engineer-in-charge.
10. I/We declare that I/We..... are not associated, nor has been associated in the past, directly or indirectly with the consultant or any other entity that has prepared the design, specification and other documents for the project for which tenders are invited.

I/We also declare that I/We are not associated, nor has been associated in the past, directly or indirectly with the consultant or any other entity who has been engaged by the Institute to provide consulting services for the preparation of supervision of the works for which tenders are invited.

I/We declare that the rates quoted by me/us are on the basis of the above.

Dated theday of20.....

Witness

Address

Signature of the tenderer/Contractor

Occupation

C.DEFINITIONS

DEFINITIONS

1. CONTRACT:

The 'Contract' means the documents forming the tender and acceptance thereof and the formal agreement executed between the Director, NITMeghalaya and the Contractor, together with the documents referred to therein including these conditions, the specifications, design, drawings and instructions issued from time to time by the Engineer-in-charge and all these documents taken together shall be deemed to form one contract and shall be complementary to one another.

2. CONTRACTOR:

The 'Contractor' means the individual or firm or company, whether incorporated or not, undertaking the work and shall include the legal personal representatives of such individual or the persons composing such firm or the successors of such firm or company and the permitted assignee of such individual or firm or firms or company.

3. DEPARTMENT:

'Department' means NIT Meghalaya.

4. ENGINEER-IN-CHARGE:

The 'Engineer-in-charge' means the Executive Engineer/Junior Engineer as the case may be, or the appropriate competent authority declared by the Institute who shall supervise and be in charge of the work and who shall sign the contract on behalf of the Director, NITMeghalaya.

5. WORK (S):

The expression 'Works' or 'Work' shall unless there is something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent and whether original, altered, substituted or additional.

6. SITE:

The 'Site' means the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.

7. MARKET RATE:

'Market Rate' shall be the rate as decided by the Engineer-in-charge on the basis of the cost of materials and labour at the site including applicable taxes, duties and also the transportation charge to where the work is to be executed plus the percentage mentioned in schedule 'F' to cover all overheads and profits.

8. SCHEDULE (S): 'Schedule(s)' referred to in these conditions shall mean the relevant schedule (s) annexed to the tender papers.

9. SCHEDULE OF RATES (SOR):

Govt. of Meghalaya PWD (Building) SOR 2021-22, Meghalaya PWD (B) Electrical Division SOR 2021-22, Meghalaya PHE SOR 2021-22 and Market Rates mentioned in the schedule 'F' here under, with the amendments thereto issued upto the date of receipt of tender.

10. TENDERED VALUE:

'Tendered Value' means the value of the entire work as stipulated in the letter of award or work order.

D.GENERAL CONDITIONS OF CONTRACT (GCC)

INDEX

Clause No	Description	Page. No
Clause 1	Performance Guarantee	E4
Clause 1A	Security Deposit	
Clause 2A	Compensation for Delay	
Clause 2B	Milestones	
Clause 3	Determination of Contract	
Clause 3A	Closing of contract by either party	
Clause 4	Contractor liable to pay compensation even if action is not taken under clause 3.	
Clause 5	Time & Extension for Delay	
Clause 6	Measurement of work done	
Clause 6A	Computerized Measurement Book	
Clause 7	Payment	
Clause 8	Completion certificate	
Clause 8A	Contractor to keep site clean.	
Clause 8B	Completion Plan	
Clause 9	Payment of final bill	
Clause 9A	Payment of contractor's bill to banks	
Clause 10	Materials supplied by the Department	
Clause 10A	Materials to be provided by the Contractor	
Clause 10B (i)	Secured advance	
Clause 10B (ii)	Mobilization advance, Interest & Recovery	
Clause 10C (i)	Reimbursement of Escalation caused as a direct result of coming into force any fresh Law or Statutory rule or order:	
Clause 10C (ii)	Payment due to Increase/ Decrease in Prices/ Wages after Receipt of Tender for Works (applicable only for work with stipulated period of completion more than 12 months)	
Clause 10D	Dismantled materials belong to Government	
Clause 10E		
Clause 11	Works to be executed in accordance with specification, drawings, orders etc.,	
Clause 11A	Action where no specification.	
Clause 12	Deviations/ Variations, Extent and Pricing	
Clause 13	Foreclosure of Contract due to abandonment or reduction in scope of work	
Clause 14	Risk and cost	
Clause 15	Suspense of works	
Clause 16	Action in case of work not done as per specification	
Clause 16A	Notice to be given before covering up	
Clause 17A	Contractor liable for damages, defects during maintenance period.	
Clause 17B	Special Condition on taking Insurance Policy for the whole work order value by the contractors'	
Clause 18	Contractors to supply tools and plants	

Clause 18A	Recovery of compensation paid to workmen	
Clause 18B	Ensuring payment and amenities to workers if contractor fails.	
Clause 19	Labour Laws/ Safety Provisions to be Complied by the Contractor	
Clause 20	Minimum wages act	
Clause 21	Work not to be sublet. Action in case of insolvency	
Clause 22	Compensation payable are without reference to actual loss or damages.	
Clause 23	Change in firm's constitution to be intimated.	
Clause 24		
Clause 25	Settlement of Disputes and Arbitration.	
Clause 25A	Settlement of dispute between NIT Meghalaya & Central Govt.	
Clause 26	Patent rights	
Clause 27	Deleted	
Clause 28	Renumbered as Clause 11A	
Clause 29	Withholding and lien in respect of sums due from Contractor.	
Clause 29A	Lien in respect of claims in other Contracts	
Clause 30	Termination of Contract on death of contractor	
Clause 31	Water Supply	
Clause 32	Electricity	
Clause 33	Return of Govt. Surplus materials to Govt.	
Clause 34	Deleted	
Clause 35	Deleted	
Clause 36	Employment of Graduate/ Diploma Engineers	
Clause 37	Deleted	
Clause 38	Deleted	
Clause 38A	Deleted	
Clause 39	Relative working with Department	
Clause 40	Restriction for employing retired Government Servant	
Clause 41	Return of materials and recovery for excess material issued.	
Clause 42	Deleted	
Clause 43	Apprentice Act to be complied with.	
Clause 44	Deleted	
Clause 45	Release of Security deposit after labour clearance	E38

CLAUSE 1
PERFORMANCE GUARANTEE

- (i) The contractor shall submit an irrevocable Performance Guarantee of 5% of the 'tendered amount' in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period of 15 days from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-charge upto a maximum period of 15 days on written request of the contractor stating the reason for delays in furnishing the Guarantee, to the satisfaction of the Engineer-in-charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs.10,000/-) or Deposit at Call receipt of any scheduled bank/ Banker's Cheque of any scheduled bank/ Demand Draft of any scheduled/ Pay Order of any scheduled bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit/receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- (ii) The Performance Guarantee shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After satisfactory taking over the building/facility, with no defects, the performance guarantee shall be returned to the contractor without any interest within 14 days.
- (iii) In case of works where high value equipments under AC/ Electrical/ Mechanical are involved and wherever explicitly mentioned in this contract, for such works, the Performance Guarantee shall be refunded only after the defect liability period of one year from the date of completion.
- (iv) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India/Director, NIT Meghalaya is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of :
 - a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
 - b) Failure by the contractor to pay President of India/Director, NIT Meghalaya any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
- (v) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India/Director, NIT Meghalaya.

CLAUSE 1A
SECURITY DEPOSIT

The security deposit of 5% shall be deducted from each RA bill of the contractor and the same shall be valid/retained for the entire defect liability period mentioned in Clause 17A.

All compensations or the other sums of money payable by the contractor under the terms of this contract shall be deducted from this security deposit.

CLAUSE 2A
COMPENSATION FOR DELAY

If the contractor fails to maintain the required progress in terms of clause 5 or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Government on account of such breach, pay as agreed compensation, the amount calculated as stipulated below for every completed day/ month (as applicable) that the progress remains below that specified in Clause 5 or that the work remains incomplete. This will also apply to items or group of items for which a separate period of completion has been specified.

Compensation for delay of work	@ 1.5% per month of delay to be computed on per day basis, on value of the incomplete work.
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Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the total tendered value of work or of the tendered value of the item or group of items of work for which a separate period of completion is originally given. The amount of compensation may be adjusted or set-off against any sum payable to the contractor under this or any other contract with the Government.

CLAUSE 2B
MILESTONES

In case the contractor does not achieve a particular milestone mentioned in schedule 'F', or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of time. Withholding of this amount on failure to achieve a milestone shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

CLAUSE 3
DETERMINATION OF CONTRACT

Subject to other provisions contained in this clause, the Engineer-in-charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this 1 contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- i) If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.

- ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge (which shall be final and binding), he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- iii) If the contractor fails to complete the work within the stipulated date or items of work within individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.
- iv) If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
- v) If the contractor shall offer or give or agree to give to any person in Government service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Government.
- vi) If the contractor shall enter into a contract with Government in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.
- vii) If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Contract or Integrity Agreement.
- viii) If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
- ix) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
- x) If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
- xi) If the contractor assigns, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without prior written approval of the Engineer-in-charge.

When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-charge on behalf of the President of India/Director, NIT Meghalaya shall have powers:

- a) To determine the contract as aforesaid (of which termination notice in writing to the contractor under the hand of the Engineer-in-charge shall be conclusive evidence). Upon such

determination, Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government.

- b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work.

In the event of above courses being adopted by the Engineer-in-charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under the contract unless and until the Engineer-in-charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

CLAUSE 3A

CLOSING OF CONTRACT BY EITHER PARTY

In case the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract. In case contractor wants to close the contract, he shall give notice to the department stating the failure on the part of department. In such eventuality, the Performance Guarantee of the contractor shall be refunded within following time limits, without any interest. The contractor will not be eligible for any compensation for any damages what so ever caused due to closing of contract.

If the Tendered value of work is,
upto Rs. 45 lac : 15 days.
more than Rs.45 lac & upto Rs.2.5 Cr : 21 days.
exceeds Rs. 2.5 Cr : 30 days.

CLAUSE 4

CONTRACTORS REMAIN LIABLE TO PAY COMPENSATION, EVEN IF ACTION NOT TAKEN UNDER CLAUSE 3

In any case in which any of the power conferred upon the Engineer-in-charge by clause-3 thereof shall have become exercisable and the same shall not be exercised, the non-exercise hereof shall not construe a waiver of any of the conditions hereof and such powers shall not be withstanding exercisable in the event of any future case of default by the contractor and the liability of the Contractor for compensation shall remain unaffected (for which by any clause or clause hereof, he is declared liable to pay compensation amounting to the extent of his security deposit and the liability of the Contractor for past and future compensations shall remain unaffected). In the event of the Engineer-in-charge putting in force all or any of the powers vested in him under the preceding clauses he may, if he so desires after giving a notice in writing to the Contractor, take possession of (or at the sole discretion of Engineer-in-charge which shall be final) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-charge) all or any tools, plant, materials and stores in or upon the works or the site then of belongings to the Contractor or procured by the Contractor and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates, or in case of these not being applicable at current market rates to be certified by the Engineer-in-charge whose certificate thereof shall be final, otherwise the Engineer-in-charge may by notice in writing to the Contractor or his clerk of the works, foreman or authorised agents requesting him/them to remove such tools, plant,

materials or stores from the premises (within a time to be specified in such notice) and in the event of the

Contractor failing to comply with any such requisition, the Engineer-in-charge may remove them at the Contractor's expenses or sell by auction or private sale on account of the Contractor and at his risk in all respects and the certificate of the Engineer-in-charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the Contractor.

CLAUSE 5

TIME AND EXTENSION FOR DELAY

The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the Performance Guarantee absolutely.

5.1 As soon as possible after the Contract is concluded, the Contractor shall submit a Time and Progress Chart for each mile stone and get it approved by the Department. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades or sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in Schedule 'F'.

a) Project Management shall be done by using project management software for works costing more than Rs. 5 Crore.

b) The project management shall be done using MS Project software for works costing more than Rs. 5 Crore and up to Rs. 20 Cr.

For works costing more than Rs. 20 Crore, project management shall be done using Primavera Software.

Programme Chart

- (i) The Contractor shall prepare an integrated programme chart in MS Project/Primavera software for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment & machinery required for the fulfillment of the programme within the stipulated period or earlier and submit the same for approval to the Engineer-in-Charge within ten days of award of the contract. A recovery of Rs. 2500/- (for works costing up to Rs. 20 Crores)/ Rs. 5000/- (for works costing more than Rs. 20 Crores) shall be made on per day basis in case of delay in submission of the above programme.
- (ii) The programme chart should include the following:
 - a) Descriptive note explaining sequence of the various activities.
 - b) Network (PERT/CPM/BAR CHART).
 - c) Programme of procurement of machinery/equipments having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor. In addition to above to achieve the progress of Work as

perprogramme, the contractor must bring at site adequate shuttering materialrequired for cement, Concrete and R.C.C. works etc. for three floors within onemonth from the date of start of work till the completion of RCC work as perrequirement of work. The contractor shall submit shuttering schedule adequateto complete structure work within laid down physical milestone.

- (iii) If at any time, it appears to the Engineer-in-Charge that the actual progress of workdoes not conform to the approved programme referred above or after reschedulingof milestones, the contractor shall produce a revised programme within 7 (seven)days, showing the modifications to the approved programme to ensure timelycompletion of the work . The modified schedule of programme shall be approved bythe Engineer in Charge. A recovery of Rs. 2500/- (for works costing upto Rs. 20Crores)/Rs. 5000/- (for works costing more than Rs. 20 Crores) shall be made onper day basis in case of delay in submission of the modified programme.
- (iv) The submission for approval by the Engineer-in-Charge of such programme or suchparticulars shall not relieve the contractor of any of the duties or responsibilitiesunder the contract. This is without prejudice to the right of Engineer-in-Chargetotake action against the contractor as per terms and conditions of the agreement.
- (v) The contractor shall submit the progress report using MS Project/Primavera softwarewith base line programme referred above for the work done during previous monthto the Engineer-In-charge on or before 5th day of each month failing which arecovery Rs. 2500/- (for works costing upto Rs. 20 Crores)/Rs. 5000/- (for works costing more than Rs. 20 Crores) shall be made on per day basis in case of delay insubmission of the monthly progress report.

5.2If the work(s) be delayed by:

- i) force majeure, or
- ii) abnormally bad weather, or
- iii) serious loss or damage by fire, or
- iv) civil commotion, local commotion of workmen, strike or lockout, affecting any of thetrades employed on the work, or
- v) delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or
- (vi) non-availability of stores, which are the responsibility of Government to supply or
- (vii) non-availability or break down of tools and Plant to be supplied or supplied byGovernment or
- (viii) Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control.

Then upon the happening of any such event causing delay, the contractor shallimmediately give notice thereof in writing to the authority as indicated in schedule 'F'

but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-charge to proceed with the works.

5.3 Request for rescheduling of milestones and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form Engineer-in-charge. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

5.4 In any such case, Engineer-in-charge may give a fair and reasonable extension of time and reschedule the milestones for completion of work. Such extension or rescheduling of the milestones shall be communicated to the Contractor by Engineer-in-charge in writing, within 3 months or 4 weeks of the date of receipt of such request respectively. Non application by the contractor for extension of time/ rescheduling of the milestones shall not be a bar for giving a fair and reasonable extension/rescheduling of the milestones by Engineer-in-charge and this shall be binding on the contractor.

CLAUSE 6

MEASUREMENT OF WORK DONE

Engineer-in-charge shall, except as otherwise provided, ascertain and determine by measurement, the value in accordance with the contract of work done. All measurement of all items having financial value shall be entered in Measurement Book and / or level fieldbook so that a complete record is obtained of all works performed under the contract.

All measurements and levels shall be taken jointly by the Engineer-in-charge or his authorized representative and by the contractor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-in-charge and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties. If for any reason the contractor or his authorized representative is not available and the work of recording measurements is suspended by the Engineer-in-charge or his representative, the Engineer-in-charge and the Department shall not entertain any claim from contractor for any loss or damages on this account. If the contractor or his authorized representative does not remain present at the time of such measurements after the contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-charge or his representative shall be deemed to be accepted by the contractor.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provisions in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.

The contractor shall give, not less than seven days notice to the Engineer-in-Charge or his authorized representative in-charge of the work, before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same covered up or placed beyond the reach of

measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-charge or his authorized representative in-charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in-charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-charge or his authorized representative may cause either themselves or through another officer of the Department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels. It is also a term of this contract that recording of measurements of any item of work in the measurement book and /or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

CLAUSE 6A

COMPUTERIZED MEASUREMENT BOOK

Engineer-in-charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract. All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A04 size as per the format of the Department so that a complete record is obtained of all the items of works performed under the contract.

All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work shall be got checked by the contractor from the Engineer-in-charge or his authorized representative as per interval or programme fixed in consultation with Engineer-in-charge or his authorized representative. After the necessary corrections made by the Engineer-in-charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-charge for the dated signature by the Engineer-in-charge and the contractor or their representatives in token of their acceptance.

Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/ test checked from the Engineer-in-charge and /or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the Institute a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in-charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound after getting the earlier MB cancelled by the Institute. Thereafter, the MB shall be taken in the Engineering Section Office records, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Accounts Section for payment. The contractor shall submit two spare copies of such computerized MBs for the purpose of reference and record by the various officers of the Institute.

The contractor shall also submit to the Institute separately his computerized Abstract of Cost and bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the 'bill'. Thereafter, this bill will be processed by Engineering Section Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-charge or his representative. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurement shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.

The contractor shall give not less than seven days notice to the Engineer-in-charge or his authorized representative in charge of the work before covering up or otherwise placing beyond the reach of checking and /or test checking the measurement of any work in order that the same may be checked and /or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and /or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-charge or his authorized representative in-charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-charge or his authorized representative may cause either themselves or through another officer of the Institute to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels. It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any overmeasurement or defects noticed till completion of the defects liability period.

CLAUSE 7 PAYMENT

Payments will be made through running account bills based on the works executed on the basis of recorded measurements. The running account bills shall be submitted by the contractor for the works executed on the basis of recorded measurements on the format of the Institute in triplicate.

Engineer-In-Charge shall arrange to have the bills verified by taking or causing to be taken wherever required the requisite measurement of the work. Payments on account of the amounts admissible shall be made by the Engineer-In-Charge certifying the sum to which contractor is considered entitled by way of running account bill at such rates decided by the Engineer-In-Charge.

The amount admissible shall be paid by tenth working day after the day of presentation of the bill by the contractor, together with all details. In the event of failure of the contractor to submit the bill, Engineer-In-Charge shall prepare or cause to be prepared such bill in which event no claim or what so ever on delay in payments shall be entertained.

However in respect of i) AC works and ii) Mechanical works viz., cranes, Monorail, special conveyor system, sliding doors, platforms, passenger/service lifts, compressed air facility, hot water guarantors, rotors, flash mixers and agitators etc., a) 76.5% pro-rata payment will be made on delivery of equipment and subject to acceptance by conducting necessary tests. b) 13.5% pro-rata payment on completion of installation and c) 10.0% on completion of testing, commissioning and handing over.

All payments made against running accounts will be treated as intermediate advances which will finally be adjusted in the final bill, prepared on completion of the work and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in anyway powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

Engineer-in-Charge in his sole discretion to the effect that the work has been completed upto the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill by taking detailed measurements thereof.

CLAUSE 8

COMPLETION CERTIFICATE

Within ten days of the completion of work, the Contractor shall give notice of such completion to the Engineer-in-charge and within ten days of receipt of such notice the Engineer-in-charge shall inspect the work and if there is no defect in the work, shall furnish the Contractor with a certificate of completion, otherwise a provisional certificate of completion indicating the defects (a) to be rectified by the Contractor and/or (b) for which payment will be made at reduced rates shall be issued but no such certificate of completion provisional or otherwise shall be issued nor shall the work be considered to be complete until the Contractor shall have removed from the premises on which the work shall be executed all scaffolding surplus material and rubbish and all huts and sanitary arrangements required for this or their work people on the site in connection with execution of works shall have been erected or constructed by the Contractor and cleaned off the dirt from all the wood works, doors, windows, walls, floors or which other parts of any building in upon or about the work is to be executed or any of which he may had possession for the purpose of execution thereof and not until the work shall have been measured by the Engineer-in-charge. If the Contractor shall fail to comply with requirements of this clause as to removal of scaffoldings, surplus materials and

rubbish and all huts and sanitary arrangements as aforesaid and cleaning of dirt on or before the date fixed for the completion of the work, the Engineer-in-charge may, at the expense of the Contractor remove such scaffolding, surplus materials and rubbish etc., and dispose off the same as he thinks fit clean of such dirt as aforesaid, and the Contractor shall forthwith pay the amount of all expense so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

CLAUSE 8A

CONTRACTOR TO KEEP SITE CLEAN

When the annual repair and maintenance work is carried out, the splashes and droppings from whitewashing, color washing, painting etc., on walls, floors, doors, windows etc., shall be removed and the surface cleared simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc., where the work is done without waiting for the actual completion of all the other items or work in the contract. In case the Contractor fails to comply with requirement of this clause, the Engineer-in-charge shall have the right to get this work done at the cost of the Contractor either Departmentally or through another agency. Before taking such action, the Engineer-in-charge shall give ten days notice in writing to the Contractor.

CLAUSE 8B

COMPLETION PLAN

The contractor shall submit completion plan for all services viz., water, sewerage, drainage, Electrical, A/c works etc., within thirty days of the completion of the work.

In case, the contractor fails to submit the completion plan as aforesaid, she/ he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs.15,000 (Rs. Fifteen Thousand only) as may be fixed by the EIC concerned and in this respect the decision of the EIC shall be final and binding on the contractor.

CLAUSE 9

PAYMENT OF FINAL BILL

The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the Engineer-in-Charge or his authorized persons, complete with account of materials issued by the Institute and dismantled materials.

If the Tendered value of work is,

upto Rs. 45 lac	: 2 months.
more than Rs.45 lac & upto Rs.2.5 Cr	: 3 months.
exceeds Rs. 2.5 Cr	: 6 months.

CLAUSE 9A

PAYMENT OF CONTRACTOR'S BILL TO BANKS

Payments due to the Contractor may, if so desired by him, be made to his bank instead of direct to him provided that Contractor furnishes to the Engineer-in-charge;

- 1) an authorization in the form of legally valid documents such as a power of attorney conferring authority on the bank to receive payment and
- 2) his own acceptance of the correctness of the account made out as being due to him by Government or his signature on the bill or other claims preferred against Government before settlement by the Engineer-in-charge of the account or claim by payment to the Bank. While the receipt given by such bank shall constitute a full and sufficient discharge for the payment, the Contractor should whenever possible present his bills duly receipted and discharged through his bankers.

Nothing herein contained shall operate to create in favour of the bank any rights or equities vis-à-vis the President of India/Director, NIT Meghalaya.

CLAUSE 10

MATERIALS SUPPLIED BY THE INSTITUTE

If the specification or schedule of items provided for the use any special description of materials to be supplied from Engineer-in-charge's stores, or if it is required that the Contractor shall use certain stores to be provided by the Engineer-in-charge as shown in schedule of materials hereto annexed (Schedule-B), the Contractor shall be bound to procure and shall be supplied such materials and stores as are from time to time required to be used by him for the purpose of the Contract only and the value of the quantity of materials so supplied at the rates specified in the said schedule of materials may be set off or deducted from any sum then due, or thereafter to become due to the Contractor under the Contract, or otherwise or the proceeds of sale thereof if the same is held in Government securities, the same or a sufficient portion thereof being in this case sold for the purpose. All materials so supplied to the Contractor shall remain absolute property of Government, and shall not be removed on any account from the site of work, and shall be all times open to inspection by the Engineer-in-charge. Any such materials remaining unused and in perfectly good condition at the time of the completion or determination of the contract shall be returned to the Engineer-in-charge at a place directed by him, if by a notice in writing under his hand he shall so required, but the Contractor shall not be entitled to return any such materials unless with such consent and shall have no claim for compensation of any such materials so supplied to him as aforesaid not being used by him or for any wastage in or damage to any such material. Provided that the Contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non-supply thereof all any such materials and stores provided further that the Contractor shall be bound to execute the entire work if the materials are supplied by the Government within the scheduled time for completion of work plus 50% thereof (scheduled time plus 6 months if time of completion of the work exceeds 12 months) but if a part only of the materials has been supplied within the aforesaid period then the Contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work, the Contractor shall be entitled to such extension of time as may be determined by EIC whose decision in this regard shall be final.

CLAUSE 10A

MATERIALS TO BE PROVIDED BY THE CONTRACTOR

The contractor shall, at his own expense, provide all materials, required for the work other than those which are stipulated to be supplied by the Government.

The contractor shall, at his own expense and without delay; supply to the Engineer-in-charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-charge furnish proof, to the satisfaction of the Engineer-in-charge that the materials so comply. The Engineer-in-charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-charge shall be issued after the test results are received.

The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities that the Engineer-in-charge may require for collecting, and preparing the required number of samples of such tests at such time and to such place or places as may be directed by the Engineer-in-charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.

The Engineer-in-charge shall have full powers to require the removal from the premises all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-charge may cause the same to be supplied and all cost which may attend such removal and substitution shall be borne by the Contractor.

The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in schedule F.

CLAUSE 10B (i)
SECURED ADVANCE

The contractor, on signing an indenture in the form to be specified by the Engineer-in-charge, shall be entitled to be paid during the progress of the execution of the work up to 90% of the assessed value of any materials which are in the opinion of the Engineer-in-charge non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/ or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in

the work, the amount of such advance shall be recovered/ deducted from the next payment made under any of the clause or clauses of this contract.

Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-charge, provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-charge shall be final and binding on the contractor in this matter. No secured advance shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel, etc.

CLAUSE 10B (ii)

MOBILIZATION ADVANCE, INTEREST & RECOVERY

- a) **Mobilization advance** at the rate of 10% of the tendered value, if requested by the contractor in writing within one month of the order to commence the work or if considered reasonable by the Engineer-in-charge. If circumstances are considered reasonable by the Engineer-In-charge, this period for request by the contractor in writing for grant of mobilization advance may be extended in the discretion of Engineer-In-Charge.

Such advance shall be made in two or more installments to be determined by the Engineer-in-charge at his sole discretion. The first installment of such advance shall be released by the Engineer-in-Charge to the contractor, on a request made by the contractor to the Engineer-In-Charge in this behalf. The second and subsequent installments shall be released by the Engineer-In-Charge only after the contractor furnishes a proof of the satisfactory utilization of the earlier installment to the entire satisfaction of the Engineer-In-Charge.

Before any installment of advance is released, the contractor shall execute a Bank Guarantee Bond from Scheduled Bank for the amount equal to 110% of the amount of advance and valid for the contract period. The above bank guarantee shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.

Provided always that provision of Clause 10 B (ii) shall be applicable only when so explicitly provided in Schedule 'F'.

- b) **Interest and recovery:** The mobilization advance at (a) above bear a simple interest at the rate of 10% per annum and shall be calculated from the date of payment to the date of recovery, both dates inclusive, on the outstanding amount of advance. Recovery of such sums advance shall be made by deduction from the contractor's bills commencing after first ten percent of the gross value of work is executed and paid on pro-rata percentage basis to the gross value of work billed beyond ten percent in such a way that the entire advance is recovered by the time eighty percent of the gross value of the contractor is executed and paid together with interest due on the entire outstanding amount up to the date of recovery of the installment.

CLAUSE 10C (i)

REIMBURSEMENT OF ESCALATION CAUSED AS A DIRECT RESULT OF COMING INTO FORCE ANY FRESH LAW OR STATUTORY RULE OR ORDER

All tendered rates shall be inclusive of all taxes, duties, royalties and levies payable under respective statutes.

If the prices of any materials incorporated in the works (not being a material supplied from the Engineer-in-charge stores in accordance with clause 10 thereof) and/or wages of labour increases/ decreases as a direct result of the coming into force of any fresh law or statutory rules or order and

such increase/ decrease exceeds 10% of the price and/or wages prevailing at the time of receipt of the tender for the work and the Contractor there upon necessarily and properly pays in respect of the materials (incorporated in the work) such increased/ decreased price and/or in respect of labour engaged on the execution of the work at such increased/ decreased wages then the amount of the contract shall accordingly be varied provided always that any increase/ decrease so payable/ deduction is not in the opinion of the Engineer-in-charge (whose decision is final and binding) attributable to delay in the execution of the contract within the control of the Contractor.

Provided however no reimbursement/ deduction shall be made if the increase/ decrease is not more than 10% of the said prices/ wages and if so the reimbursement/ deduction shall be made only on the excess over 10% and provided further that any such increase/decrease shall not be payable/ deduction, if such increase/ decrease has become operative after the contract or extended date of completion of the works in question.

The Contractor shall for the purpose of this condition keep such books of accounts and other documents as are necessary to show the amount increased claim or reduction available and shall allow inspection of the same by a duly authorized representative of the Government and further shall at the request of Engineer-in-charge, furnish any documents so kept and such other information as the Engineer-in-charge may require.

The Contractor shall within a reasonable time of his becoming aware of any alteration in the price of any such materials and or wages of labour give notice thereof to the Engineer-in-charge stating that the same is given pursuant to this condition together with all information relating there to which he may be in a position to supply.

CLAUSE 10C (ii)

PAYMENT DUE TO INCREASE/ DECREASE IN PRICES/ WAGES AFTER RECEIPT OF TENDER FOR WORKS (APPLICABLE ONLY FOR WORKS WITH STIPULATED PERIOD OF COMPLETION MORE THAN 12 MONTHS)

If the prices of materials (not being materials supplied at fixed prices by the Institute in accordance with clause 10) and/ or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation for escalation in prices shall be available only for the work done during the stipulated period of the contract including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2A.

No such compensation shall be payable for a work for which the stipulated period of completion is equal to or less than **12 (twelve) months**. Such compensation for escalation in the prices of materials and labour, when due, shall be worked out based on the following provisions.

- (i) The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any,
- (ii) The cost of work on which escalation will be payable shall be reckoned as below :-

Gross value of work done upto this quarter	[A]
Gross value of work done upto the last quarter	[B]
Gross value of work done since previous quarter (A-B)	[C]

Full assessed value of Secured Advance, fresh paid in this quarter	[D]
Full assessed value of Secured Advance, recovered in this quarter	[E]
Full assessed value of Secured Advance for which escalation payable in this quarter [D-E]	[F]
Advance payment made during this quarter	[G]
Advance payment recovered during this quarter	[H]
Advance payment for which escalation is payable in this quarter [G-H]	[I]
Extra items /deviated quantities of items paid as per Clause 12 based on prevailing market rates during this quarter.	[J]
Then, M = C + F + I – J N = 0.85 M	
Less cost of material supplied by the Department as per Clause 10 and recovered during the quarter	[K]
Cost of work for which escalation is applicable : W = N – (K)	

- (iii) Components of materials and labour shall be predetermined for every work and incorporated in the condition of contract attached to the tender papers included in schedule 'F'. The decision of the Engineer-in-charge in working out such percentages shall be binding on the contractors.
- (iv) The compensation for **materials** shall be worked as per the formula given below :-

(a) *Adjustment for Materials*

$$V_m = \frac{W \times X_m \times MI - MI}{100}$$

Where,

V_m = Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered.

W = Cost of Work done worked out as indicated in sub-para (ii)

X_m = Component of materials expressed as percent to the total value of work as specified in Schedule F.

MI = All India Wholesale Price Index for all commodities *for the period under consideration* published by Economic Advisor to Govt. of India, Ministry of Industry & Commerce.

MI₀ = All India Wholesale Price Index for all commodities *valid on the last stipulated date of receipt of tender including extension, if any*, as published by the Economic Advisor to Govt. of India, Ministry of Industry & Commerce.

- (v) The following principles shall be followed while working out the indices mentioned in Para (iv) above

- (a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The first such payment shall be made at the end of three months after the month (excluding) in which the tender was accepted and thereafter at three months interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.
- (b) The index (MI) relevant to any quarter/ period for which such compensation is paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period upto date of completion after the quarter covered by the last such installment of payment is less than three months, the index MI shall be the average of the indices for the months falling within the period.
- (vi) The compensation for escalation for **labour** shall be worked out as per the formula given below :-

$$V_L = W * \frac{Y_L * LI - LI_0}{100 * LI_0}$$

Where,

V_L = Variation in labour cost i.e. amount of increase or decrease in rupees to be paid or recovered.

W = Value of work done, worked out as indicated in sub-para (ii) above

Y_L = Component of labour expressed as a percentage of the total value of the work as specified in Schedule F.

LI = Minimum daily Wage in rupees of an unskilled adult male mazdoor, fixed under any law, statutory rule or order as applicable *on the last date of the quarter previous to the one under consideration*.

LI_0 = Minimum daily wage in rupees of an unskilled adult male mazdoor fixed under any law, statutory rule or order as applicable *on the last stipulated date of receipt of tender including extension, if any*.

- (vii) The following principles will be followed while working out the compensation as per sub-para (vi) above.
- (a) The minimum wage of an unskilled male mazdoor mentioned in sub-para (vi) above shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning.
- (b) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters.
- (c) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled adult male mazdoor alone shall form the basis for working out the escalation compensation payable on the labour component.

- (viii) In the event, the price of materials and/ or wages of labour required for execution of the work decrease/s, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible from the cost of work under this contract and in this regard the formula herein before stated under this Clause 10C (ii) shall mutatis mutandis apply.

CLAUSE 10D

DISMANTLED MATERIALS ARE GOVERNMENT PROPERTY

The Contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc., as Government's property and such materials shall be disposed off to the best advantage of Government according to instructions in writing issued by the Engineer-in-charge.

CLAUSE 10E - DELETED

CLAUSE 11

WORK TO BE EXECUTED IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, ORDERS, ETC.,

The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract. The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

CLAUSE 11A

ACTION WHERE NO SPECIFICATION

In the case of any class of work for which there is no standard specifications such work shall be carried out generally in accordance with CPWD specification and if there is no details of CPWD specification book then it shall be executed as per Bureau of Indian Standard specification. In case there is no such specification in Bureau of Indian Standards the work shall be carried out in all respects in accordance with the instruction and requirement of the Engineer-in-charge.

CLAUSE 12

DEVIATIONS/ VARIATIONS EXTENT AND PRICING

The Engineer-in-charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the work(s) in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-charge and such alterations, omissions, additions or substitutions shall

form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided :

12.1: The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows:

- i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus.
- ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-charge.

12.2: Extra items and pricing

A. For major works:

In the case of Extra items (items that are completely new, and are in addition to the items contained in the contract) , the contractor may within 15 days of receipt of order or occurrence of the item(s), claim rate supported by proper analysis, for the work and the Engineer-in-charge shall within prescribed time limit of the receipt of the claims supported by analysis after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of market rates and the contractor shall be paid in accordance with the rates so determined.

B. For Maintenance works including works of up-gradation, aesthetic, special repair, addition/ alteration:

In the case of Extra item(s) being the schedule items (SOR as mentioned in schedule 'E'), these shall be paid as per the schedule rate plus plus/ minus percentage above/ below quoted contract amount. Payment of Extra items in case of nonscheduled items (Non-SOR items) shall be made as per the prevailing market rate.

12.3: Substituted item, pricing

A. For major/ capital works:

In the case of substituted items (items that are taken up with partial substitution are in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.

i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).

B. For Maintenance works including works of up-gradation, aesthetic, special repair, addition/ alteration:

In the case of Substituted item(s) being the schedule items (SOR as mentioned in Schedule 'E'), these shall be paid as per the schedule rate plus, plus/minus percentage above/ below quoted contract amount. Payment of Substituted items in case of nonscheduled items (Non – SOR as mentioned in Schedule 'E') shall be made as per the prevailing market rate.

12.4: Deviated quantities, pricing

A. For major/ capital works:

In the case of contract items, substituted items, contract cum substituted items, which exceed the limits as below, the contractor may within fifteen days of receipt of order of occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of market rates and the contractor shall be paid in accordance with the rates so determined.

Prescribed time limits are as under:

If the Tendered value of work is	
upto Rs.45 lac	: 30 days.
more than Rs.45 lac and up to Rs. 2.5 Cr	: 45 days.
exceeds Rs. 2.5 Cr	: 60 days.

B. For Maintenance works including works of up- gradation, aesthetic, special repair,addition/ alteration:

In the case of contract items, which exceed the deviation limits as specified in Schedule 'E',the contractor shall be paid with rates specified in the schedule of quantities.

12.5:

A. For major/ capital works:

The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of limits laid down in Schedule ' E ', and the Engineer-in-charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

B. For Maintenance works including works of up-gradation, aesthetic, special repair,addition/ alteration:

In case of decrease in the rates prevailing in the market of items for the work in excess of the limits laid down in Schedule E, the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates

For the purpose of operation of deviation limit, the following works shall be treated as works relating to foundation unless & otherwise defined in the contract:

- i) For Buildings: All works upto 1.2 metres above ground level or upto floor 1 level whichever is lower.
- ii) For abutments, piers and well steining: All works up to 1.2 m above the bed level.
- iii) For retaining walls, wing walls, compound walls, chimneys, over head reservoirs/tanks and other elevated structures: All works upto 1.2 metres above the ground level.

- iv) For reservoirs/ tanks (other than overhead reservoirs/ tanks): All works upto 1.2metres above the ground level.
- v) For basement: All works upto 1.2 m above ground level or up to floor 1 levelwhichever is lower.
- vi) For Roads, all items of excavation and filling including treatment of sub base.
- vii)

12.6:

The contractor shall send to the Engineer-in-charge once every three months, an up-to dateaccount giving complete details of all claims for additional payments to which thecontractor may consider himself entitled and of all additional work ordered by the Engineer-in-charge which he has executed during the preceding quarter failing which the contractorshall be deemed to have waived his right. However, the Director, NIT Meghalayamay authorize consideration of such claims on merits.

12.7:

Any operation incidental for proper execution of the item included in the Schedule ofquantities or in the Schedule of rates mentioned above, whether or not, specificallyindicated in the description of the item and the relevant specifications, shall be deemed tobe included in the rates quoted by the tenderer or the rate given in the said schedule ofrates as the case may be. Nothing extra shall be admissible for such operations.

CLAUSE 13

FORE CLOSURE OF CONTRACT DUE TO ABANDONMENT OR REDUCTION IN SCOPE OF WORK

If at any time after acceptance of the tender, Engineer-in-Charge shall decide to abandonor reduce the scope of the works for any reason whatsoever and hence not require thewhole or any part of the works to be carried out, the Engineer-in-Charge shall give notice inwriting to that effect to the contractor and the contractor shall act accordingly in the matter.The contractor shall have no claim to any payment of compensation or otherwisewhatsoever, on account of any profit or advantage which he might have derived from theexecution of the works in full but which he did not derive in consequence of the foreclosureof the whole or part of the works.

The contractor shall be paid at contract rates, full amount for works executed at site and, inaddition, a reasonable amount as certified by the Engineer-in-Charge for the itemshereunder mentioned which could not be utilized on the work to the full extent in view of theforeclosure;

(i) Any expenditure incurred on preliminary site work, e.g. temporary access roads,temporary labour huts, staff quarters and site office, storage accommodation andwater storage tanks.

(ii) Government/Institute shall have the option to take over contractor's materials orany part thereof either brought to site or of which the contractor is legally bound toaccept delivery from suppliers (for incorporation in or incidental to the work)provided, however Government/ Institute shall be bound to take over thematerials or such portions thereof as the contractor does not desire to retain. Formaterials taken over or to be taken over by Government/ Department, cost of suchmaterials as detailed by Engineer-in- Charge shall be paid. The cost shall,however, take into account purchase price, cost of transportation and deteriorationor damage which may have been caused to materials whilst in the custody of thecontractor.

(iii) If any materials supplied by Government/ Institute are rendered surplus, thesame except normal wastage shall be returned by the contractor to Government/Institute at rates not exceeding those at which these were originally issued, lessallowance for any deterioration or damage which may have

been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to Government/ Institute stores, if so required by Government/ Institutet, shall be paid.

(iv) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable.

(v) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer- in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Government/Instiute as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Government/ Institute from the contractor under the terms of the contract.

CLAUSE 14 RISK AND COST

If contractor:

- (i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after 7 days of notice in writing, in this respect from the Engineer-in-Charge; or
- (ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or
- (iii) Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by EIC.

Engineer- in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Government/ Institute, by a notice in writing to take the part work/part incomplete work of any item(s) out of his hands and shall have powers to:

- (a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or
- (b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by Government/Institute because of action under this clause shall not exceed 10% of the tendered value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by Government/ Institute in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Government/Institute as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Government/Institute in law or per as agreement be recovered from any money due to the contractor or any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

In the event of above course being adopted by the Engineer-in-Charge the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

CLAUSE 15

SUSPENSION OF WORK

The Contractor shall suspend the execution of work or any part or parts thereof, wherever called upon in writing by the Engineer-in-charge to do so and shall not resume work thereon until so directed in writing by him. The Contractor will be allowed an extension of time for completion not less than the period of suspension but no other claims in this respect for compensation or otherwise, however will be admissible.

CLAUSE 16

ACTION IN CASE WORK NOT DONE AS PER SPECIFICATIONS

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Assurance unit of the Government or any organization engaged by the Institute for Quality Assurance and of the Chief Technical Examiner's office and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible

agent duly accredited in writing, present for that purpose. Orders given to the contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinate in-charge of the work or to the Authority in charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the Institute for Quality Assurance or to the Chief Technical Examiner or his subordinate officers that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs.10 lakhs and below except road work) of the completion of the work from the Engineer-in-charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

In such case the Engineer-in-charge may not accept the item of work at the rate applicable under the contract but may accept such items at reduced rates as the authority specified in Schedule 'F' may consider reasonable during the preparation, of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

CLAUSE 16A

NOTICE TO BE GIVEN BEFORE COVERING UP

The Contractor shall give not less than seven days notice in writing to the Engineer-in-charge or his authorized subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and placed beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge or his authorized subordinate in charge of the work shall within the aforesaid period of seven days inspect the work and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or the Engineer-in-charge's consent be obtained the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

CLAUSE 17A

CONTRACTOR LIABLE FOR DAMAGES, DEFECTS DURING MAINTENANCE PERIOD

If the Contractor or his working people shall break, deface, injure or destroy any part of a building in which they may be working or any buildings, road, kerbs, fence, enclosure, water pipes, cables, drains, electric and telephone posts or wire, trees, grass or grass land or cultivated ground contiguous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work while in progress from any cause whatever or if any defects shrinkage or other faults appear in the work within **twelve months** after a certificate of final or otherwise of its

completion shall have been given by the Engineer-in-charge as aforesaid arising out of defective or improper materials or workmanship, the Contractor shall after receipt of notice in writing in that behalf make the same good at his own expense, or in default the Engineer-in-charge may cause the same to be made good by other workmen and deduct the expense (of which the certificate of the Engineer-in-charge shall be final) from any sums that may then, or at any time thereafter become due to the Contractor, or from his Security Deposit or the proceeds of sale thereof, or of a sufficient portion thereof the Security Deposit of the Contractor shall not be refunded before the expiry of twelve calendar months after the issue of the certificate of final or otherwise of completion of work, or till the final bill has been prepared and passed whichever is later.

Engineer-in-Charge shall give notice to the contractor of any defects before the end of the Defect Liability Period, which begins on the date of completion. The Defect Liability Period shall stand automatically extended for as long as defects remain to be rectified. Every time notice of defect is given, the contractor shall correct the notified defects within the period specified by Engineer-in-charge.

However, for contract exclusively for earth work or jungle clearance where defect liability period is not relevant, Security Deposit if any paid may be refunded along with payment of final bill subject to labour clearance vide Clause 45.

Further in case where the contract provides for completion in phases, the Engineer-in-charge at his discretion may allow part refund of Security Deposit after expiry of 12 months (6 months in case of any works other than road work costing Rs.10,00,000 and below) from the date of completion for each phase but not before the payment of final bill for the entire contract.

CLAUSE 17B

SPECIAL CONDITION ON TAKING INSURANCE POLICY FOR THE WHOLE WORK ORDER VALUE BY THE CONTRACTORS'

As per Clause 17A of the Conditions of Contract, the Contractors' have to make good at their own expense the damages occurred due to any accident from any cause during the work in progress or nearing completion of the work. In order to fulfill this clause and also to take the responsibility of handing over the site to the full satisfaction of the Engineer-in-Charge and till the contractor gets the certificate or a letter of taking over the site facility/building/works, the contractor shall be responsible to re-do the works damaged from any cause. For this purpose, the contractor shall insure the whole work the moment the work order is received and before agreement is signed for the entire work order value under contractor's all risk insurance policy [CAR]. The third party liability and Cross-liability shall also be covered under the policy. The Contractors' shall consult the insurance companies and also the principal employer i.e. the Engineer-in-Charge and take the insurance policy for CAR. In case of any accidents during the work or nearing completion of the work [other than during the defect liability period for which Clause-17A is applicable], the Contractors' are totally responsible to re-do the damages and hand over site in acceptable condition to the Engineer-in-Charge and await a letter from the Department that the site has been taken over. Till such time, the Contractors' are responsible for all the damages from any cause.

Note: Contractor should also obtain insurance policy to cover all the laborers engaged in the work. In the event of contractor failing to keep insurance alive, Institute reserves right to take appropriate action including withholding the payments due to the Contractor.

CLAUSE 18

CONTRACTOR TO SUPPLY TOOLS AND PLANTS ETC.,

The Contractor shall supply and provide at his own cost all materials (except such special materials, if any as may in accordance with the contract be supplied from the Engineer-in-charge's stores) plant, tools, appliances, implements, ladders, cartage, tackle, scaffolding and temporary works requisite for the proper execution of the work, whether original, altered or substituted and whether included in the specification or other documents forming part of the contract or referred to in these conditions or not or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge as to any matters as to which under these conditions he is entitled to be satisfied or which he is entitled to require together with carriage thereof to and from the work.

The Contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or materials failing his so doing the same may be provided by the Engineer-in-charge at the expenses of the Contractor and the expense may be deducted from any money due to the Contractor under the contract or the proceeds of sale thereof or of a sufficient portion thereof.

CLAUSE 18A

RECOVERY OF COMPENSATION PAID TO WORKMEN

In every case which by virtue of the provisions of section 12 sub-section (i) of the workman's compensation act, 1923, Government/Institute is obliged to pay compensation to workmen employed by the Contractor in execution of the work, Government will recover from the Contractor the amount of the compensation so paid and without prejudice to the rights of Government under section-12 sub-section (2) of the said act, Government/Institute shall be at liberty to recover such amounts or any part thereof by deducting it from the security deposit or from any sum due by the Government/Institute to the contractor whether under this contract or otherwise, Government/Institute shall not be bound to contest any claim made against it under section 12, sub-section (1) of the said act except on the written request of the Contractor and upon his giving to Government/Institute full security for all costs for which Government/Institute might become liable in consequence of contesting such claim.

CLAUSE 18B

ENSURING PAYMENT AND AMENITIES TO WORKERS IF CONTRACTOR FAILS

In every case in which by virtue of the provisions of the contract Labour (Regulation and Abolition Act 1970) and of the Contract Labour Regulation and Abolition Central Rules, 1971, Government/Institute is obliged to pay any amounts of wages to workman employed by the Contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said act and the rules under clause 19 or under the rules framed by Government/Institute from time to time for the protection of health and sanitary arrangements for workers employed by Government Contractor, Government/Institute will recover from the Contractor the amount of wages so paid or the amount of expenditure so incurred and without prejudice to the right of the Government/Institute under section 20 subsection (2) and section 21 sub-section (4) of the Contract Labour (R&A) act 1970

Government/Institute shall be at liberty to recover such amount or any part thereof by deducting it from any sum due by the Government/Institute to the contractor whether under this agreement or otherwise Government/Institute shall not be bound to contest any claim made against it under section 20 sub-section (1) and section 21 sub section (4) of the said Act except on the written request of the Contractor and upon his giving to the Government/Institute full security for all costs for which Government/Institute might become liable in contesting such claim.

CLAUSE 19

LABOUR LAWS/ SAFETY PROVISIONS TO BE COMPLIED BY THE CONTRACTOR

Contractor shall follow all laws, regulations and acts of Central/ State Government and other statutory bodies relating to engaging labourers in work, wages and all related provisions and indemnify Government/Institute against payment to be made under and for the observance of the said labour laws.

Engineer-in-Charge concerned shall have the right to deduct from the money due to the contractor, any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of any of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.

Further, contractor at his own expense shall arrange and comply with the safety provisions as per Standard safety manual and health & sanitary arrangements for the workers as per the extant rules.

CLAUSE 20

MINIMUM WAGES ACT

Contractor shall comply with all the provisions of the Minimum Wages Act 1948, Contract Labour (Regulation and Abolition) act, 1970 and rules framed thereunder and other labour laws affecting Contract Labour that may be brought into force from time to time.

CLAUSE 21

WORK NOT TO BE SUBLET - ACTION IN CASE OF INSOLVENCY

The contract shall not be assigned or sublet without the written approval of the Engineer-in-charge and if the Contractor shall assign or sublet this contract or attempt to do so or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so or if any bribe gratuity, gift, loan, perquisite reward or advantage, pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the Contractor or any of his employees or agents to any public officer or person in the employ of the Government/Institute in any way relating to his Officer or Employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-charge may thereupon on behalf of the President of India/Director, NIT Meghalaya shall have power to adopt any of the course specified in Clause 3 as he may best deem suited in the interest of Government/Institute, in the event of any of those courses being adopted the consequences specified in the said clause 3 shall ensure.

CLAUSE 22

COMPENSATION PAYABLE ARE WITHOUT REFERENCE TO ACTUAL LOSS OR DAMAGES

All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

CLAUSE 23

CHANGE IN FIRM'S CONSTITUTION TO BE INTIMATED.

Where the Contractor is a partnership firm, the previous approval in writing of the Engineer-in-charge shall be obtained before any change is made in the constitution of the firm. Where the Contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall like wise be obtained before the Contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the work hereby undertaken by the Contractor. If

previous approval as aforesaid is not obtained, the contractor shall be deemed to have been assigned in contravention of clause 21 hereof and the same action may be taken and the same consequences shall ensue as provided in the said clause 21.

CLAUSE 24 – DELETED

CLAUSE 25

SETTLEMENT OF DISPUTES AND ARBITRATION

- a) If any dispute or differences of any kind whatsoever were to arise between the Engineer-in-charge or Institute and the Contractor regarding the following matters namely.
- i) The meaning of the specifications, designs, drawings and instructions hereinbefore mentioned.
 - ii) The quality of workmanship or materials used on the work and
 - iii) Any other question, claim, right, matters, thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions or orders, or those conditions or failure to execute the same whether arising during the progress of the work after the completion, termination or abandonment thereof, the dispute shall, in the first place be referred to the Executive Engineer/ Director, NIT Meghalaya who has Jurisdiction over the work specified in the contract with the details of claims, justification for the same with supporting documents such as analysis of rates, cash vouchers and other relevant particulars. The Executive Engineer/ Director, NIT Meghalaya shall within a period of sixty days from the date of being requested by the Contractor to do so or from the date of furnishing of required particulars whichever is later shall give written notice of his decision to the contractor.

If the Engineer-in-Charge/Executive Engineer fails to give notice of his decision within a period of 60 days from the date of receipt of (i) the Contractor's request in writing for settlement of dispute or difference as aforesaid or (ii) relevant particulars from the Contractor in support of his claims whichever is later. (OR)

If the decision of the Engineer-in-Charge/Executive Engineer is not acceptable to the Contractor, he may approach the Director of the Institute within a period of 15 days from the date of expiry of 60 days specified above. The Director of the Institute shall within a period of further 90 days from the date of receipt of request from the contractor or from the date of receipt of relevant particulars from the contractor in support of claims whichever is later give notice of his decision (s) to the Contractor.

- b) Subject to other forms of settlement hereinafter provided the Director of the Institute decision in respect of every dispute or difference so referred shall be final and binding upon the Contractor. The said decision shall forthwith be given effect to and Contractor shall proceed with the execution of the work with all due diligence.

c) Remedy

- 1. When Director of the Institute decision is not acceptable to Contractor OR
- 2. Director of the Institute fails to give decision within 90 days.

In case the decision of the Director of the Institute is not acceptable to the Contractor or Director of the Institute fails to give decision within 90 days specified above, the Contractor may approach the Law court specified in Schedule 'F' for settlement of dispute after giving due written notice in this regard to the Director of the Institute.

d) Whether the claim is referred to the Engineer-in-Charge/Executive Engineer/ Director of the Institute or to the Law Courts, as the case may be, the Contractor shall proceed to execute and complete the works with all due diligence pending settlement of the said dispute or differences.

Obligations of the Engineer-in-charge and Contractor shall remain unsettled during considerations of dispute.

e) The reference of any dispute or dispute (s) or difference(s) to Engineer-in-Charge/Executive Engineer or the Director of the Institute or the Law Court may proceed notwithstanding that the work shall then be or be alleged to be complete provided always that the obligations of the Engineer-in-charge and the Contractor shall not be altered by reason of the said dispute or difference being referred to Engineer-in-Charge/Executive Engineer / Director of the Institute or the Law Court during the progress of the works.

CLAUSE 25A

SETTLEMENT OF DISPUTES BETWEEN CMG AND CENTRAL GOVERNMENT ENTERPRISES

In the event of the contract being entered into between National Institute of Technology Meghalaya and a Central Government Public Enterprises, supersession of above clause 25 of condition of Contract the following clause shall apply 'In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts, such dispute or difference shall be referred by either party to the arbitration of one of arbitrators in the Department of Public Enterprises to be nominated by the Secretary to the Government of India, in charge of the Bureau of Public Enterprises. The arbitration Act, 1940 shall not be applicable to the arbitration under this clause. The award of the arbitration shall be binding upon the parties to the dispute provided; however any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Additional Secretary, when so authorized by the Law secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Secretary, whose decision shall bind the parties finally and conclusively. The parties to the dispute will share equally the cost of Arbitration as intimated by the Arbitrator.

Provisions of clause 25 shall not be applicable to contracts where this clause 25A is applicable and the contracts for which clause 25A is not applicable clause 25 will be applicable.

CLAUSE 26

PATENT RIGHTS

The Contractor shall fully indemnify the President of India/Director, NIT Meghalaya against any action, claim or proceeding relating to infringement or use of any patent or design on any alleged patent or design right and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against Government in respect of such matters as aforesaid the Contractor shall be immediately notified thereof and the Contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from. Provided that the Contractor shall not be liable to indemnify the President of India/Director, NIT Meghalaya if the infringement of the patent or design of any alleged patent or design right is the direct result of an order passed by the Engineer-in-charge in this behalf.

CLAUSE 27 – DELETED

CLAUSE 28 – RENUMBERED AS CLAUSE 11A

CLAUSE 29

WITHHOLDING AND LIEN IN RESPECT OF SUMS DUE FROM CONTRACTOR

- (i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the Government/Institute shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the Government/Institute shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the Government/Institute shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the Government/ Institute or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld retained under the lien referred to above by the Engineer-in-charge or Government/Institute will be kept withheld or retained as such by the Engineer-in-charge or Government till the claim arising out of or under the contract is determined by the competent court and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor . For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-charge or the Government shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company at the case may be, whether in his individual capacity or otherwise.

- (ii) Government/Institute shall have the right to cause an audit and Technical Examination of the work and the final bills of the Contractor including all supporting vouchers abstract etc., to be made after payment of the final bill and if as a result of such audit and Technical Examination any sum is found to have been over paid in respect of any work done by the Contractor under the contract or any work claimed by him to have been done by him under contract and found not to have been executed, the Contractor shall be liable to refund the amount of over payment and it shall be lawful for Government/Institute to recover the same from him in the manner prescribed in sub clause (1) of this clause or in any other manner equally permissible and if it is found that the Contractor was paid less than what was due to him under the Contract in respect of any work executed by him under it, the amount of such underpayment shall be duly paid by Government/Institute to the contractor, without any interest thereon whatsoever.

Provided that the Government/Institute shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Engineer-in-Charge on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Engineer in Charge.

CLAUSE 29A

LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACTS

Any sum of money due and payable to the Contractor (including Security Deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-charge or the Government/ Institute or any other contracting person or persons through Engineer-in-charge against any claim of the Engineer-in-charge or the Government/ Institute or such other person or persons in

respect of payment of a sum of money arising out of or under any other contract made by the Contractor with the Engineer in charge or Government/Institute or with such other person or persons.

It is an agreed term of the contract that the sum of the money so withheld or retained under this clause by the Engineer-in-charge or the Government/ Institute will be kept withheld or retained as such by the Engineer-in-charge or the Government/ Institute or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

CLAUSE 30

TERMINATION OF CONTRACT ON DEATH OF THE CONTRACTOR

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, the Engineer-in-charge on behalf of the President/Director, NIT Meghalaya shall have the option of terminating the contract without compensation to the Contractor.

CLAUSE 31

WATER SUPPLY

The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions.

- i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.
- ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in-Charge, unsatisfactory.

Institute Supply, if available:

Water, if available and sparable, may be supplied to the contractor by Institute only at the single point subject to the following conditions:-

- i) The water charges @1 % shall be recovered on gross amount of the work done.
- ii) The contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply.
- iii) The Institute do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the contractor(s) to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the Government/Institute water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.

Alternative water arrangements:

- i) Where there is no piped water supply arrangement and the water is taken by the Contractor from the wells or hand pump constructed by the Government/Institute no charge shall be recovered from the Contractor on that account. The Contractor shall, however, draw water at such hours of the day that it does not interfere with the normal use for which the hand pump and wells are intended. He will also be responsible for all damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from him. The Engineer-in-charge shall be the final authority to determine the cost recoverable from the Contractor on this account.
- ii) The Contractor shall be allowed to construct temporary wells in Government/Institute land for taking water for construction purposes only after he has got permission of the Engineer-in-charge in writing. No charges shall be recovered from the Contractor on this account, but the Contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to

adjacent buildings, roads and service lines. He shall also be responsible, for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.

CLAUSE 32

ELECTRICITY

Electricity, if available in the premises and sparable, may be provided to the contractor by the Institute only at the single point subject to the following conditions:-

- i) The Contractor has to make his own arrangement to tap Electricity from a 3 phase/single phase supply from location decided by Engineer-in-charge. Electricity supply will be made available only on metered basis. Electric charges will be recovered at actuals.
- ii) In all cases where/when the energy meter is not installed, defective energy meter is not replaced or not rectified immediately, the consumption charges towards electricity will be recovered on the basis of the total wattage of the load multiplied by the number of hours utilized. In all such cases the Contractor shall maintain a log book indicating wattage of the load and hours of consumption and get the same attested by Engineer-in-charge at appropriate time without fail. The decision of Engineer-in-charge in the matter shall be final.

Note: Please refer Guide lines for temporary power supply at site and general safety procedures, attached.

CLAUSE 33

RETURN OF GOVERNMENT SURPLUS MATERIALS TO GOVERNMENT

Notwithstanding anything contained to the contrary in any or all the clauses of this contract where any materials for the execution of the contract are procured with the assistance of Government/Institute either by issue from Government/Institute stocks or purchase under orders made or permits or licenses issued by the Government, the Contractor shall hold the said material as trustee for Government/Institute and use such materials economically and solely for the purpose of the contract and not dispose of them without the permission of the Government/Institute and return, if required by Engineer-in-charge all surplus, serviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such price as the Engineer-in-charge shall determine having due regard to the condition of the material. The price allowed to the Contractor, however, shall not exceed the amount charged to him excluding the storage charges, if any. The contractor shall also not be entitled to cartage and incidental charges for returning the surplus materials from and to the stores where from they were issued. The decision of Engineer-in-charge shall be final and conclusive.

In the event of breach of aforesaid conditions the contractor shall in addition to throwing himself open to action for contravention of the terms of licenses or permits and/or for criminal breach of trust, be liable to compensate the Government/Institute for all money, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.

CLAUSE 34 – DELETED

CLAUSE 35 – DELETED

CLAUSE 36

EMPLOYMENT OF GRADUATE/ DIPLOMA ENGINEERS

Contractors Superintendence, Supervision, Technical Staff & Employees

- (i) The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall be actually available the decision of the Engineer-in-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor.

Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full power to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) along with every on account bill/ final bill and shall produce evidence if at any time so required by the Engineer-in-Charge at site fully during all stages of execution of work, during recording/checking/ test checking of measurements of works and whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/ their signature in token of noting down the instructions and in token of acceptance of measurements/ checked measurements/test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (nonrefundable) shall be effected from the contractor as specified in Schedule 'F' and

- (ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work.

The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.

CLAUSE 37 – DELETED

CLAUSE 38 – DELETED

CLAUSE 38A – DELETED

CLAUSE 39

RELATIVE WORKING WITH INSTITUTE

It is presumed that the Contractor is not related to any of the officers of the National Institute of Technology Meghalaya. If he has any such relatives full particulars of the same should be furnished.

CLAUSE 40

RESTRICTION FOR EMPLOYING RETIRED GOVERNMENT SERVANT

No Engineer of Gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in the Engineering Department of the Government of India shall work as a Contractor or employ of contractor for a period of one year after his retirement from Government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the Contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid before submission of the tender or engagement in the Contractor's service as the case may be.

CLAUSE 41

RETURN OF MATERIALS & RECOVERY FOR EXCESS MATERIAL ISSUED

- i) After completion of the work and also at any intermediate stage in the event of non-reconciliation of materials issued, consumed and in balance - (see Clause 10), the theoretical quantity of materials issued by the Government/Institute for use in the work shall be calculated on the basis and method given hereunder:-
 - a. Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above mentioned schedule/statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer-in-Charge.
 - b. Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorized by Engineer-in-Charge, including authorized lap pages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter wise, section wise and category wise separately.
 - c. Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall be taken as quantity actually required and measured plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be 10%), such determination & comparison being made diameter wise & category wise.

d. For any other material as per actual requirements.

ii) Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F'. The difference in the net quantities of material actually issued to the contractor and the theoretical quantities including such authorized variation, if not returned by the contractor or if not fully reconciled to the satisfaction of the Engineer-in-Charge, within fifteen days of the issue of written notice by the Engineer-in-charge to this effect shall be recovered at the rates specified in Schedule 'F', without prejudice to the provision of the relevant conditions regarding return of materials governing the contract. Decision of Engineer-in-Charge in regard to theoretical quantities of materials, which should have been actually used as per the Annexure of the standard schedule of rates and recovery at rates specified in Schedule 'F', shall be final & binding on the contractor.

For non scheduled items, the decision of the Engineer-in-Charge regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor.

iii) The said action under this clause is without prejudice to the right of the Government/Institute to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.

CLAUSE 42 – DELETED

CLAUSE 43

APPRENTICE ACT TO BE COMPLIED WITH

The Contractor shall comply with the provisions of the Apprentices Act 1961 and the rules and orders issued there under from time to time. If he fails to do so his failure will be a breach of the contract and the Engineer-in-charge may in his discretion cancel the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the Act.

CLAUSE 44 – DELETED

CLAUSE 45

RELEASE OF SECURITY DEPOSIT AFTER LABOUR CLEARANCE

Security Deposit of the work shall not be refunded till the contractor produces a clearance certificate from the Labour Officer. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-charge. The Engineer-in-charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint, its pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.

E.GENERAL GUIDELINES (GG)

1. MARKING BASE LINES AND LEVELS

The Contractor shall layout his work from base lines and grades established by the Institute, and shall be responsible for all measurement in connection therewith. The Contractor shall at his own expense furnish all stakes, template, platforms, equipment, ranges and labour that may be required in setting or laying out any part of the work, the Contractor shall be held responsible for the proper execution of the work to such lines and grades as may be established or indicated on the drawings and specifications. The Contractor shall check the bench marks and benches existing at the site for laying out lines and levels. The Contractor is to construct and maintain proper benches at the intersections of all main walls, in order that the lines and levels may be accurately checked at all times. The Contractor shall provide suitable stones with flat tops and built the same in concrete for temporary bench marks. All the pegs for setting out the works and fixing the necessary levels required for the execution thereof shall, if desired by the Engineer-in-charge, likewise be built in masonry at such places and in such mortar as the Engineer-in-charge may determine. Theodolite, levels, prismatic compass, chain, steel and metallic tapes and all other surveying instruments found necessary on the works shall be provided by the Contractor for their own use and for inspection by Departmental officers.

2. STORES & MATERIALS, INSPECTION AND AVOIDING INCONVENIENCE TO INSTITUTE ACTIVITIES

Stores and material required for the work are to be stored by the Contractors only in places to be indicated by Engineer-in-charge. The Engineer-in-charge shall have the right at any time to inspect and examine any store and materials intended to be used in or on the works on the site or at any factory or workshop or other places where such stores or materials are being constructed or manufactured or processed or any place from where they are being obtained and the Contractor shall give such facilities as required to be given for such inspection and examination.

The Engineer-in-charge shall be entitled to have tests made at any approved Laboratory for any stores and/or materials supplied by the Contractor who shall provide at his own expense all facilities (viz.,) arrangements required for taking samples, conveyance, packing, etc., which the Engineer-in-charge may require for the purpose. Testing charges shall be borne by the Institute. Any stores and materials brought to the site for use on the work shall not be removed off the site without prior written approval of the Engineer-in-charge, but on final completion of the work Contractor shall at his own expense remove from the site all surplus stores and materials originally brought by him.

The Contractor shall not deposit materials on any site which will cause inconvenience to any of the Departmental activities. The Contractor shall undertake to clean the site free from rubbish to the satisfaction of the Engineer-in-charge. All surplus materials, rubbish and materials which may be dangerous/ cause inconvenience to the activities of the Department/Institute shall be removed at the Contractor's cost and deposited at the places fixed by EIC.

3. SPECIFICATIONS AND DRAWINGS

The drawings furnished to the Contractor shall be interpreted and identified by figured dimensions and nomenclature as indicated therein. On no occasion the drawings shall be scaled off and transferred to work. In all cases where enlarged detailed drawings are given for any component of work, these drawings shall take precedence over those incorporated in general drawing to a comparatively smaller scale.

- a) Prior to the execution of the work, the contractor shall check all drawings, specifications and shall immediately report all errors, discrepancies and/or omissions discovered therein to the Engineer-in-charge and obtain appropriate orders on the same. Any adjustment made by the Contractor without prior approval of the Engineer-in-charge shall be at his own risk, each description of item in the schedule of quantities shall be read in conjunction with the relevant drawings and the specifications and the Contractor's rate shall be deemed to be for such complete work unless otherwise specified by the Contractor while tendering.

- b) Cost of all shop drawings, fabrication drawings or form work drawings and details to be furnished by the Contractor shall be deemed to be included in his tendered rates for the work. Accordingly approval to shop drawings or other fabrication drawings shall not be construed as authorizing award of additional work and as long as these belong to common individual scheme governed by specifications for which the Contractor has already quoted, no extra payment on any account will be admissible for all essential components that are to be necessarily executed to complete the work in all respects.
- c) Prior to submission for approval, the Contractor shall be responsible for thoroughly checking all drawings to ensure that they comply with the intent and requirements of the contract specifications and that they fit with the over all building layout. Drawing found to be inaccurate or otherwise in error will be returned for correction by the Contractor.
- d) For all drawings to be submitted by the Contractor for the approval of the Engineer-in-charge, the Contractor shall submit 6 (six) copies of each drawing for approval.
- e) The approval of drawing by the Engineer-in-charge shall not be construed as a complete dimensional check, but will indicate only that the general method of construction and detailing is satisfactory. The contractor shall be totally responsible for the dimensions and design, safety of the system evolved inclusive of providing interconnected operational accessories adequate enough to accomplish satisfactory completion of work.
- f) In case of difference between drawings and specifications, the specifications shall govern. Anything mentioned in the specification and not shown in the drawings or shown on the drawings but not mentioned in the specifications shall be like effect as if shown or mentioned in both.

4. SEQUENCE OF WORK

The sequence of work shall be generally as decided by the Engineer-in-charge taking into consideration other connected works.

5. CO-ORDINATION WITH OTHER CONTRACTORS

Contractor shall extend all co-operations to the other Contractors executing the work, who might be working at the site.

6. INSPECTION OF WORK

The work shall be carried out under the directions of the Engineer-in-charge in addition subject to inspection by the representative appointed by Engineer-in-charge to ensure strict compliance with the terms, specifications and conditions of the contract. Any failure on the part of the Engineer-in-charge or his representative during the progress of inspection of work to discover any defective work or to reject materials not upto standards shall not be deemed to have been accepted and should not be construed as waived. Any defects noticed either during the period of construction or after the completion upto a period of 12 months from the date of completion, the Contractor is liable to carry out all repairs/rectifications at his/ their own cost to the satisfaction of the Department. Further in the event of the Contractor using substandard/inferior quality of materials which at future date is not susceptible to replacement, for structural reasons or otherwise and if concurrence is given for retention of such structure, the Engineer-in-charge will have necessary authority to recover a proportionate sum decided as per his discretion. In case the structure with the use of substandard or inferior material cannot be retained in the work as per the opinion of the Engineer-in-charge, portion or portions of such structure/work shall be dismantled and replaced new by the Contractor at his own cost. Partial or entire occupancy of the premises shall not be construed as the acceptance of the work or materials incorporated in the work. No changes whatsoever to any provision of the specification shall be made without written authorized from the Engineer-in-charge.

7. MEASUREMENT

Where mode of measurement is not specified the measurements will be taken at site as per latest IS code of practice for measurements. The Contractor or his representative shall accompany the Engineer-in-charge or his representative when required to do so and assist in

taking the measurement and shall agree to the measurements recorded on the spot. The measurements for all works in general shall be measured as per the dimensions.

All measurements shall be taken with steel tapes only. Necessary scaffolding, staging and ladders required for taking measurements shall be provided by Contractor at his cost, besides offering service of labourers for taking such measurements.

If the Contractor fails to accompany the Engineer-in-charge or other persons who have been duly authorised by the Engineer-in-charge to take measurements then he should be bound by the Measurements recorded by the Engineer-in-charge or his representative.

8. MAKE AND OTHER DETAILS OF MATERIALS

The Contractor shall furnish a list of the makes and other details of various materials he proposes to use on the work and this would be subject to the approval of the Institute.

9. SAMPLES

Samples of all materials to be incorporated in the work shall be submitted to the Engineer-in-charge for his approval without claiming any extra cost. The approved samples will be kept with the Engineer-in-charge till the completion of work. Materials not conforming strictly to the samples are liable to be rejected.

10. NO DAMAGE TO DEPARTMENT/INSTITUTE PROPERTY

No damage should be done to the property of the Department to the buildings or trees and if any damage so done, the Contractor is responsible for making good the loss according to the decision taken by the Engineer-in-charge.

11. SAFETY PROVISIONS/ CONTRACTOR TO BEAR THE EXPENSES IN CONNECTION WITH ACCIDENTS, IF ANY

The Contractor shall provide all necessary fencing lights required to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings which may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any such actions or proceedings to any such persons or which may with the consent of the Contractor be paid to compromise any claim by any such person.

12. SECURITY REGULATIONS TO BE FOLLOWED

The Contractor have to follow strictly the regulations of the Department/Institute at the work site regarding entry of personnel, materials etc. and any other regulation that might be enforced from time to time. Contractors personnel/ workers should possess valid passes and should produce the passes to Security Department authorities when demanded. Contractors personnel/workers should not enter the Departmental premises, other than those for which the passes are issued and also should not enter after/before working hours without obtaining prior approvals. Any person found in the Departmental premises without authorized passes during, before or after working hours is liable for actions as per the Departmental procedures and rules.

All materials and articles brought by the Contractor to the work site shall have to be declared at the security gate. Similarly no materials shall be taken out from the Departmental premises without proper gate pass which will be issued/ caused to be issued by the Engineer-in-charge to the Contractor on written request. It is to be noted that loading of Contractor materials in vehicles and truck shall be done in the presence of Departmental personnel. The Contractors representative will have to escort the materials till the security check is over.

For working on Sundays, Holidays and late hours, even though permission will be accorded by the Engineer-in-charge the Contractor will have to make application to the Security Department also and keep them informed well in advance.

Any breach of above security regulations and rules in force from time to time will be viewed seriously. No claim whatsoever will be entertained by the Department on account of observance of Security Regulations.

13. SUBCONTRACTING

Subcontracting as a matter of rule not allowed.

However, if it is inevitable in special cases, the Contractor shall within fifteen (15) days after the date of award of this contract notify the Engineer-in-charge in writing of the names of all Sub-Contractor proposed for the work and the extent and character of the work to be done by each. The employment of any Sub-Contractor will be subjected to the approval of the Engineer-in-charge. If for any reason, at any time during the progress of work the Engineer-in-charge determines that any Sub –Contractor is incompetent or undesirable he will notify the Contractor accordingly and the Contractor shall take steps immediately to cancel such Sub-Contractor. Sub-letting by such contract shall be subjected to same regulations. Nothing contained in this contract shall create any contractual relation between any Sub-Contractor and the Department and the Contractor shall be entirely responsible for all the work included in the contract whether executed by him or through his Sub-Contractors. In particular it may be noted that the Contractor shall obtain steel doors and windows from a reputed manufacturer and before placing order for these, the Contractor shall obtain the concurrence of the Institute for the agency from whom he proposes to obtain steel doors and windows.

14. ANALYSIS OF RATES QUOTED

The contractor when called for by the Institute should furnish detailed analysis in support of the rates quoted by him against each item of the tender. The Institute reserves the right to utilize the analysis thus supplied in settling any deviations or claims arising on this contract. An allowance of 15% towards Contractors overheads and profits will be considered while determining the rate/rates on the costs of prevailing market rates as per clause 12 of general conditions of the contract.

15. POWER OF ATTORNEY HOLDERS NOT TO BE PERMITTED FOR EXECUTION OF WORKS.

It may be noted that the original Contractors on whom the work order is issued only shall carry out the work directly and they will not give any power of attorney for execution of the work for any one else. As a special case, in case of partnership firm, one of the partners can carry out the work with due authorization, provided the partnership deed is to be submitted to the Institute. Similarly, in case of a Construction Company, Private Limited Company, Public Limited Company only the authorized signatory of the Company shall act and carry out the work. All such proposals must be made clear by the tenderer while submitting the tender itself and get it specifically approved by the Institute. In case, during the execution if the Engineer-in-charge feels that the authorized signatory/authorized representative is not able to manage works, the authorized signatory/representative can be removed by the Engineer-in-charge.

16. PUBLICITY OF WORKS EXECUTED FOR INSTITUTE

The Contractor / Sub-Contractor shall obtain prior written permission of the Institute whenever they propose to mention the work executed or being executed for the Institute in any of their publicity literature advertisements. The text of the publicity literature advertisement should be submitted while applying for permission.

17. NO INTEREST FOR DELAYED PAYMENTS

Wherever the time limits are specified in the General Conditions of Contract and other parts of the Contract, for payments and releasing of bank guarantee etc., by Institute, Institute will not pay any interest for delay, if any, beyond the stipulated time limits, caused due to unavoidable official reasons.

F.SCHEDULES

SCHEDULE 'F' - REFERENCE TO GENERAL CONDITIONS OF CONTRACT

Name of work: Construction of RCC Weir, Sump Well, Pump House, Fencing and Laying of Pipes including Electrical Power Supply for Drawing/Tapping of Water from Wah Khlek Khlek to Water Treatment Plant (WTP) and Water Storage Reservoir (WSR) at NIT Meghalaya Permanent Campus, Saitsohpen, Sohra.

1.	Estimated cost of work	Rs. 2,57,84,219/-
2.	Earnest Money	Rs. 5,15,685/-
3.	Performance Guarantee	5%
4.	Security Deposit	5%

General Rules & Direction:

1.	Officer inviting Tender	Director, NIT Meghalaya
2	Percentage on cost of materials and labour to cover all overheads and profits	15%
3.	Schedule of Rates (SOR)	Govt. of Meghalaya PWD (Building) SOR 2021-22, Meghalaya PWD (B) Electrical Division SOR 2021-22, Meghalaya PHE SOR 2021-22 and Market Rates

REF: CLAUSE 1 OF GCC: PERFORMANCE GUARANTEE	
(i) Time allowed for submission of performance Guarantee from the date of issue of work order	15 days
(ii) Maximum allowable extension beyond the period provided in (i) above	15 days
REF: CLAUSE 2A OF GCC: COMPENSATION OF DELAY	
Authority of fixing compensation under clause 2A	Director, NIT Meghalaya
REF: CLAUSE 5 OF GCC: TIME & EXTENSION FOR DELAY	
Number of days from the date of issue of work order for reckoning date of start	15 days
Time allowed for execution of work	12 months

TABLE OF MILE STONE (S):

T= 15th day from the date of issue of work order.

Sl. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with held in case of non achievement of milestone
1.	RCC Weir & Sump Well	T+4 months	Rs 100,000.00
2.	Pump House & Fencing	T+6 months	Rs 80,000.00
3.	Pipeline connection	T+9 months	Rs 2,50,000.00
4.	Installation of pumps, electrical & finishing works	T+12 months	Rs 80,000.00

REF: CLAUSE 6 & 6A OF GCC: MEASUREMENT OF WORK DONE AND COMPUTERIZED MEASUREMENT BOOK

Clause applicable: 6/ 6A (Non applicable clause to be striked off)

REF: CLAUSE 10A OF GCC: MATERIALS TO BE PROVIDED BY THE CONTRACTOR

List of testing equipment to be provided by the contractor at site lab.

1	Cube mould-4 nos	4	
2	Sieve analysis apparatus-1 set	5	
3	Dumpy level-1 no.	6	

REF: CLAUSE 10 B (ii) OF GCC: MOBILIZATION ADVANCE, INTEREST & RECOVERY

Whether Clauses 10 B (ii) shall be applicable: **No**

REF: CLAUSE 12 OF GCC: DEVIATIONS/ VARIATIONS, EXTENT AND PRICING

Deviation limit beyond which clause 12 shall apply

For Superstructure Work	25%
For Foundation Work	50%

REF: CLAUSE 16 OF GCC: ACTION IN CASE OF WORK NOT DONE AS PER SPECIFICATION

Competent Authority for deciding reduced rates: Director, NIT Meghalaya

REF: CLAUSE 25 OF GCC: SETTLEMENT OF DISPUTES AND ARBITRATION

Law court of Jurisdiction : Meghalaya High Court

REF: CLAUSE 36 OF GCC: EMPLOYMENT OF GRADUATE/ DIPLOMA ENGINEERS

Sl. No.	Minimum qualification of Technical representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)
1	Graduate	Civil	Engineer	3 years	1	Rs 25,000.00
2	Diploma	Civil	Site Engineer	3 years	1	Rs 15,000.00

REF: CLAUSE 41 OF GCC: RETURN OF MATERIALS AND RECOVERY FOR EXCESS MATERIAL ISSUED.

(i) Variations permissible on theoretical quantities:

(a)	Cement for works with estimated cost put to Tender not more than Rs. 5 Lakhs	3% plus/minus
	For works with estimated cost put to Tender more than Rs.5 lakhs	2% plus/minus
(b)	Bitumen for all works	2.5% plus only & Nil on minus side
(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% plus/minus
(d)	All other materials Nil	

(ii) Recovery rates for quantities beyond permissible variation:

Sl. No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond Permissible variation	Less use beyond the permissible variation
1.	Cement		
2.	Steel reinforcement a) M.S. Bars b) HYSD bars		
3.	Structural Sections		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

G.FORMATS

FORMATS
(TO BE FILLED IN BY THE TENDERER/
CONTRACTOR)

FORMAT 1

LIST OF ON-GOING WORKS

Sl. No.	Name of work	Nature of work	Value of work	Date of Completion as per W.O	Present Status	Expected date of completion	Expected commitment during_____	Name of client & Full Address

FORMAT 2

LIST OF WORKS COMPLETED IN THE LAST 07 YEARS (INCL. THE CURRENT YEAR IN WHICH THE TENDER IS CALLED).

Sl. No.	Name of work	Nature of work	Value of work	Date of Completion as per W.O	Actual date of completion	Whether Extension of Time of Contract was availed?		Name of client & Full Address
						With levy of compensation	Without levy of by the client.	

Note:

The above details are to be furnished by the Tenderer, along with copy of work order and completion certificate issued by the client.

(Signature of the tenderer with stamp)

FORMAT 3
a. DRAFT BANK GUARANTEE BOND FOR EARNEST MONEY

(To be used by Approved Schedule Banks)

1. In consideration of the President of India/Director, NIT Meghalaya (hereinafter called "The Government") having agreed to accept from (hereinafter called the said tenderer) a Bank Guarantee in Lieu of Earnest Money Deposit in Cash, under the terms and conditions contained in the Notice Inviting Tender (hereinafter referred to as N.I.T) for the work of bearing No. and dated (hereinafter referred to as "the said works") for Rs..... (Rupees Only) (in words) We the BANK (hereinafter called the said Bank) do hereby undertake to pay to Government the sum of Rs..... (RUPEES ONLY) (in words), by reason of the said tenderer's failure to enter into an agreement of contract on institutions of acceptance of his tender and/or to convene the contract works and or failure to deposit the Security Deposit within the stipulated period as per the terms and conditions relating to and/or governing the contract and/or specified in the N.I.T.

2. We, (indicate the name of Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said tenderers. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the tenderer in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the tenderers shall have no claim against us for making such payment.

4. We..... (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for entering into the Agreement of contract and that it shall continue to be enforceable till all the dues of the Government under the terms and conditions of NIT for the work have been fully paid and its claims satisfied or discharged or till Department certifies that the terms and conditions of the N.I.T have been fully and properly carried out by the said tenderers and accordingly discharges this guarantee unless a demand or a claim under this guarantee is made on us in writing on or before the we shall be discharged from all liability under this guarantee thereafter.

5. We,..... Bank further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the N.I.T and/or terms and conditions governing the contract or to extend the time of validity of the offer from the said tenderer from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said tenderer and to forbear or enforce any of the terms and conditions of the NIT and we shall not be relieved from our liability hereunder by reason of any such variation, or extension being granted to the said tenderer or for any forbearance act or omission on part of the Government or any indulgence by the Government to the said tenderer or by any such matter or thing whatsoever which under the law relating to surety/guarantee would but for this provision have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the tenderers.

7. We,
(indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.

8. This Guarantee shall be valid upto Unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs..... (RUPEES ONLY) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee, all our liabilities under this Guarantee shall stand discharged.

Dated the day of
20..... for
(indicate the name of Bank)

Accepted

Director, NIT Meghalaya

**b. DRAFT BANK GUARANTEE BOND FOR PERFORMANCE SECURITY
(GUARANTEE)**

1. In consideration of the Director NIT Meghalaya having offered to accept the terms and conditions of the proposed agreement between and (hereinafter called "the said Contractor(s)") for the work (hereinafter called "the said agreement") having agreed to production of a irrevocable Bank Guarantee for Rs..... (Rupees only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

2. We,(indicate the name of the bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees Only).

3. We, (indicate the name of the Bank) the said bank further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the Government certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We, (indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of

the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We, (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.

8. This guarantee shall be valid upto unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupeesonly) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the day of for (indicate the name of the Bank)

c. DRAFT BANK GUARANTEE BOND FOR SECURITY DEPOSIT

1. In consideration of the President of India/Director, NIT Meghalaya (hereinafter called "The Government") having agreed to exempt (hereinafter called "the said Contractor(s)") from the demand, under the terms and conditions of an Agreement No..... dated made between and for the work (hereinafter called "the said Agreement") of Security Deposit for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs..... (RUPEES ONLY).

We..... (indicate the name of the Bank) (hereinafter referred to as the Bank") at the request of Contractor(s) do hereby undertake to pay to the Government an amount not exceeding Rs..... (RUPEES ONLY) on demand by Government.

2. We, (indicate the name of the Bank) do hereby undertake to pay amounts due and payable under this guarantee without any demure merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor(s). Any such demand made on the Bank shall be conclusive as regards to amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

3. We undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharges or till Engineer-in-charge on behalf of the Government certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We,
(indicate the name of the Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exerciseably by the Government against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s).

7. We,
(indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.

8. This Guarantee shall be valid upto Unless extended on demand by Government. Notwithstanding any thing mentioned above, our liability against this Guarantee is restricted to Rs..... (RUPEES ONLY) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee, all our liabilities under this Guarantee shall stand discharged.

Dated theday of 20 for
.....
(indicate the name of the Bank)

Note :-

Before a Bank Guarantee is accepted, an affidavit duly sworn in before a first class magistrate, may also be taken from the Contractor that he would keep the validity of the Bank guarantee intact by getting it suitably extended from time to time, at his own initiative, upto a period of twelve months for any other maintenance period prescribed in the agreement after the recorded date of completion of the work as directed by the Engineer-in-charge and indemnifies the Government against any losses arising out of non encashment of Bank guarantee. Such an undertaking may be taken on a non judicial stamp paper, as required, in the enclosed proforma.

d. BANK GUARANTEE TO SECURE A MOBILISATION ADVANCE

TO
THE PRESIDENT OF INDIA/ GOVERNOR OF THE STATE OF

1. In consideration of the President of India/ Governor of the State of (hereinafter called "the Government" which expression shall unless repugnant to the subject or context include his successor and assigns) having agreed under the terms and conditions of Contract No..... Dated made between * and the Government in connection with [hereinafter called "the said Contract"] to make at the request of the Contractor a lumpsum advance of Rs..... (Rupees) for utilizing it for the purpose of the Contract on his furnishing a guarantee acceptable to the Government, we the

** Bank Ltd. (hereinafter referred to as "the said Bank") a company under the Companies Act, 1956 and having our registered office at Do hereby guarantee the due recovery by the Government of the said advance with interest thereon as provided according to the terms and conditions of the Contract. We ** do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due to the Government under the said Agreement. Any such demand made on the Shall be conclusive as regards the amount due and payable by the under this guarantee and the agree that the liability of the to pay the Government the amount so demanded shall be absolute and unconditional notwithstanding any dispute or disputes raised by the Contractor and notwithstanding any legal proceeding pending in any Court or Tribunal relating thereto. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs..... (Rupees).

2. We ** Bank Ltd. further agree that the Government shall be the sole judge and as to whether the said Contractor has not utilized the said advance or any part thereof for the purpose of the contract and the extent of loss or damage caused to or suffered by the Government on account of the said advance together with interest now being recovered in full and the decision of the Government that the said Contractor has not utilized the said advance or any part thereof for the purpose of the Contract and as to the amount or amounts of loss or damage caused to or suffered by the Government shall be final and binding on us.

3. We, the said Bank further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and till the said advance with interest has been fully recovered and its claims satisfied or discharged and till certify that the said advance with interest has been fully recovered from the said Contractor, and accordingly discharges this Guarantee subject, however, that the Government shall have no claims under this Guarantee after six months from date of completion of the said Contract, as the case may be, unless a notice of the claim under this Guarantee has been served on the Bank before the expiry of the said period of six months in which case the same shall be

enforceable against the Bank notwithstanding the fact that the same is enforced after the expiry of the said period of six months.

4. The Government shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee or indemnity, from time to time to vary any of the terms and conditions of the said contract or the advance or to extend time of performance by the said Contractor or to postpone for any time and from time to time any of the powers exercisable by it against the said contractor and either to enforce or forbear from enforcing any of the terms and conditions governing the said Contract or the advance or securities available to the Government and the said Bank shall not be released from its liability under these presents by any exercise by the Government of the liberty with reference to the matters aforesaid or by reasons of time being given to the said Contractor or any other forbearance, act or omission on the part of the Government or any indulgence by the Government to the said Contractor or of any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so releasing the Bank from its such liability.

5. It shall not be necessary for the Government to proceed against the contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding any security which the Government may have obtained or obtain from the Contractor shall at time when proceedings are taken against the Bank hereunder be outstanding or unrealized.

6. We, the said Bank lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Government in writing and agree that any change in the constitution of the said Contractor or the said Bank shall not discharge our liability hereunder.

7. This guarantee shall be valid upto unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... [Rupees] and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated this day of20.....

For and on behalf of the Bank [Name and Designation]

The above Guarantee is accepted by the President of India/ Governor of the

Or:

For and on behalf of the President of India/

Governor of the State of[Name and Designation]

Note :

* For proprietary Concerns

Shri Son of resident of
carrying on business under the name and style of at
..... [hereinafter called “the said Contractor” which expression shall unless the
context requires or otherwise include his, heirs, executors, administrators and legal
representatives].

*For Partnership Concerns

[1] Shri Son of resident of

[2] Shri Son ofresident of
carrying on business in co-partnership under the name and style Of
..... at [hereinafter called “the said Contractor” which expression
shall unless the context requires or otherwise include each of them and their respective
heirs, executors, administrators and legal representatives.

*For Companies

S/Shri A company under the Companies Act, 1956 and having its
Registered office at in the State of [hereinafter called “the
said Contractor” which expression shall unless the context requires or otherwise include
its successors and assign].

**Fill in name of the Bank

FORMAT 4

INDEMNITY BOND

Note:

The contractor shall furnish an indemnity bond in non-judicial stamp paper worth Rs.100/- within ten days of the acceptance of the tender as per the format given below:

In consideration of the President of India, this bond of indemnity is hereby made on this day the of 20..... between M/s./Shri..... (hereinafter called the first party) in favour of the Government of India represented by Engineer in charge of the work of (hereinafter called second party)

Whereas the first party is the contractor for the said work and whereas the first party has agreed to comply with the clause 19 of the General Conditions of Contract (GCC) for the said work.

Now this deed witnesses that the first party agrees to be liable to indemnify the Government/ second party in accordance with clause 19 in General Conditions of Contract (GCC) for the said work and shall at all times keep the Government/ second party indemnified against all future claims in respect of the said clause and first party also agrees to indemnify the Government/ second party against or in respect of all charges, costs and damages which the Government/ second party may incur on account of default made by the first party in respect of the said clauses.

In witness whereof the first party has signed this bond on the date first above written in the presence of the following witnesses.

Signature of First party

Witnesses:

1).....

2).....

NOTE:

- All drawings shall be read along with the relevant Architectural drawings
- Any discrepancy shall be brought to the architect/engineer notice prior to execution of work.
- Grade of concrete shall be of M30 (IS3370 (Pt-1), 2009).
- All P.C.C and R.C.C works shall strictly conform to IS 456, IS 3370, IS 1893 & IS 13920
- Cement use shall be of OPC 43 or 53 grade and shall be tested before use.
- For steel of Fe-500D conforming to IS 1785 shall be used and shall be tested before use.
- Clear cover to steel: Foundation= 60mm, Wall & slab= 50mm.
- Slab shall be casted monolithic with the vertical walls.
- Development length of bars (L_d): Both tension and compression shall be of 50 times the diameter of rebar.
- Lap length for all bars shall be of 50 times the diameter of the rebar unless otherwise specified.
- Bars of two different diameters are to be spliced. The lap length shall be calculated on the basis of diameter of the larger bar as per SP:34 (S&T)-1987.
- All materials use to be tested.
- Cube strength to be collected at each stage of casting.

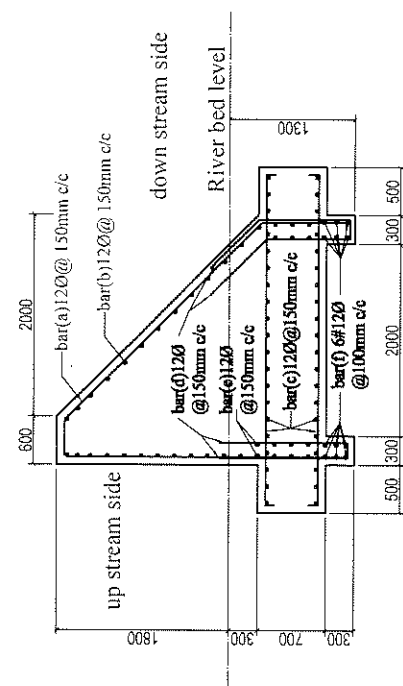
NAME OF PROJECT
PROPOSED RCC DAM
ACROSS WAH KHLEK KHLEK, SUMP WELL & PUMP
HOUSE FOR NIT MEGHALAYA, SOHRA

CONTENT
RCC DAM DETAIL:
PLAN
REINFORCEMENT DETAIL
& SECTIONS
SHEET NO
2/5

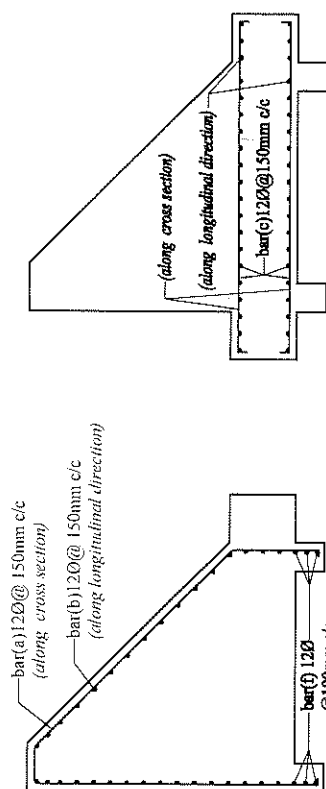
ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED
ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT
OTHERWISE MENTIONED

DESIGNER
COUNTERSIGNED

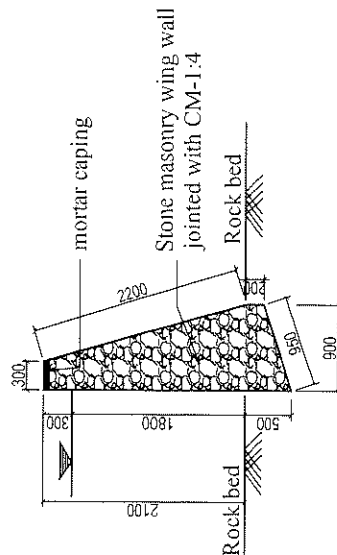
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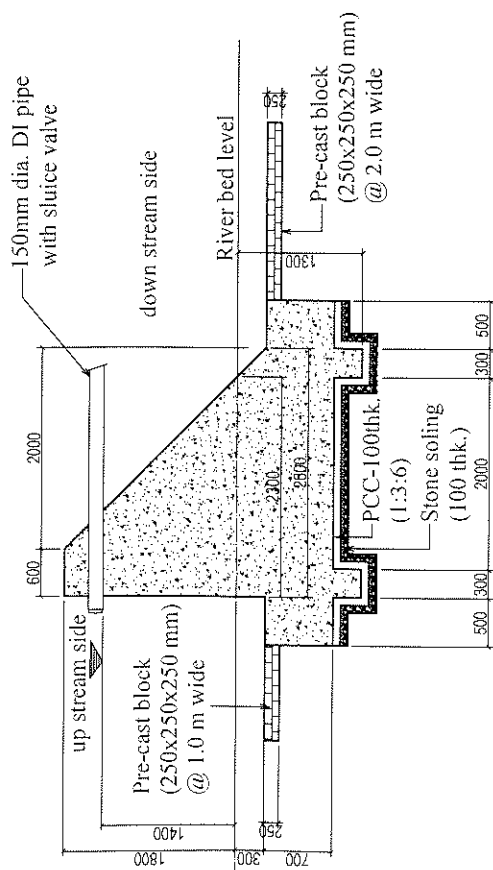
REINFORCEMENT DETAILING



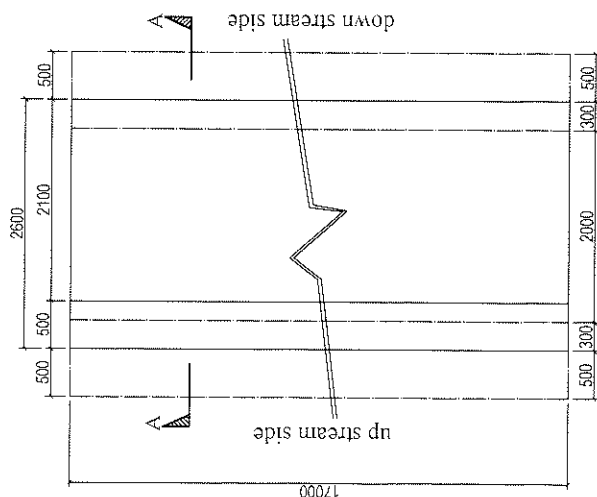
bar(a, b & f)



SECTION OF WING WALL
Wing wall-1 @ 15.0 m length
Wing wall-2 @ 2.0 m length



SECTIONAL AT A-A



PLAN VIEW OF THE DAM

NOTE:

- All drawings shall be read along with the relevant Architectural drawings
- Any discrepancy shall be brought to the architect/engineer notice prior to execution of work.
- Grade of concrete shall be of M30 (IS 3370 (Pt-1), 2009).
- All P.C.C. and R.C.C. works shall strictly conform to IS 456, IS 3370, IS 1893 & IS 13820
- Cement use shall be of OPC 43 or 53 grade and shall be tested before use.
- For steel of Fe-500D conforming to IS 1786 shall be used and shall be tested before use.
- Clear cover to steel: Foundation= 80mm, Wall & slab= 50mm.
- Slab shall be casted monolithic with the vertical walls.
- Development length of bars (L_d): Both tension and compression shall be of 50 times the diameter of rebar.
- Lap length for all bars shall be of 50 times the diameter of the rebar unless otherwise specified.
- Bars of two different diameters are to be spliced. The lap length shall be calculated on the basis of diameter of the larger bar as per SP-34 (S&T)-1987.
- All materials use to be tested.
- Cube strength to be collected at each stage of casting.

NAME OF PROJECT

PROPOSED RCC DAM
ACROSS WAH KHEK KHLEK, SUMP WELL & PUMP
HOUSE FOR NIT MEGHALAYA, SOHRA

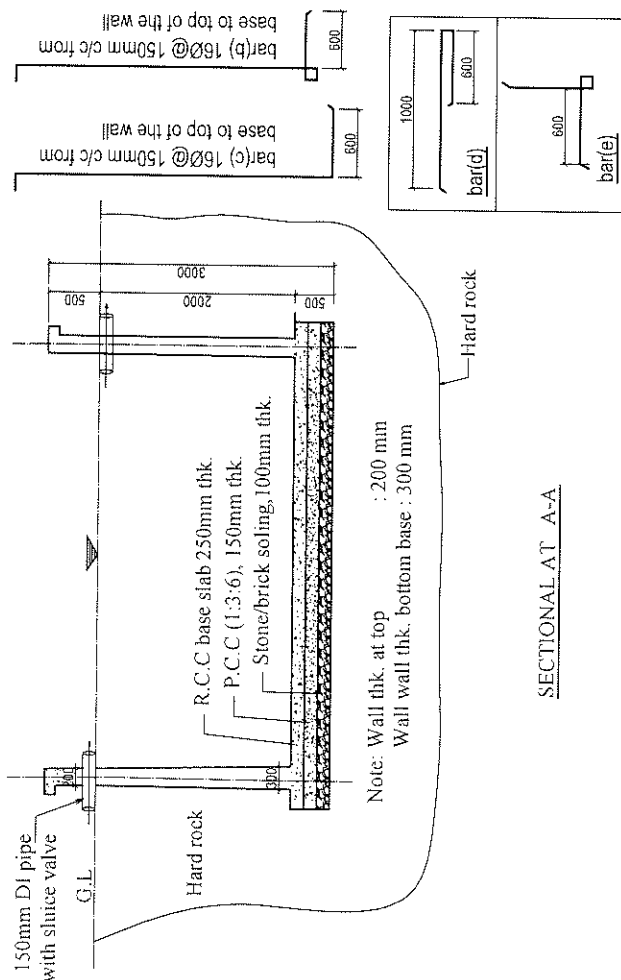
CONTENT	SUMP TANK DETAIL: PLAN REINFORCEMENT DETAIL & SECTIONS	SCALE not to scale	SHEET NO 3/5
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- ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED
- ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT
OTHERWISE MENTIONED

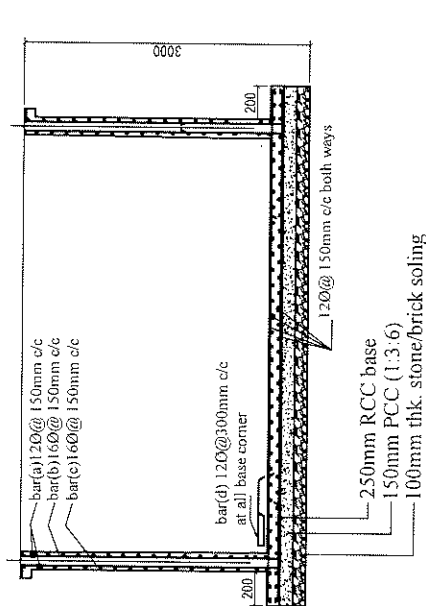
DESIGNER

COUNTERSIGNED

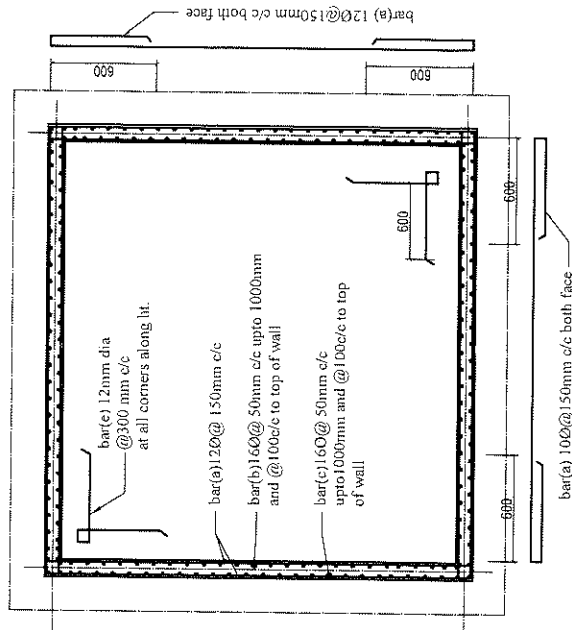
APPROVED BY



SECTIONAL AT A-A



SECTIONAL REINFORCEMENT ELEVATION



SECTIONAL PLAN

NOTE:

- All drawings shall be read along with the relevant Architecture drawings
- Any discrepancy shall be brought to the architect/engineer notice prior to execution of work.
- Grade of concrete shall be of M20
- All P.C.C and R.C.C works shall strictly conform to IS 456, IS 3370, IS 1803 & IS 13020
- Cement use shall be of OPC 43 or 53 grade and shall be tested before use.
- Tor steel of Fe-500 conforming to IS 1786 shall be used and shall be tested before use.
- Clear cover to steel: Foundation= 40mm, Column =40mm, beam & slab= 30mm
- Slab shall be casted monolithic with the vertical walls.
- Development length of bars (L_{db}): Both tension and compression shall be of 40 times the diameter of rebar.
- Lap length for all bars shall be of 50 times the diameter of the rebar unless otherwise specified.
- Bars of two different diameters are to be avoided. The lap length shall be calculated on the basis of diameter of the larger bar as per SP-34 (S31)-1987.
- All materials use to be tested.
- Footing design is based on bearing capacity of 150 kN/m² in a depth of 200mm from Ground Level.
- Cuts straight to be collected at each stage of casting.
- These structural notes are applicable for all subsequent drawings.

NAME OF PROJECT

**PROPOSED RCC DAM
ACROSS WAH KHLEK KHLEK SUMP WELL & PUMI
HOUSE FOR MIT MEGHALAYA, SOHRA**

**PUMP HOUSE:
PLAN
REINFORCEMENT DETAIL**

SCALE
Not to scale

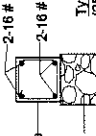
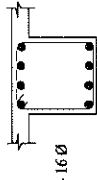
SHEET NO
5/5

**ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED
-ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT
OTHERWISE MENTIONED**

DESIGNER

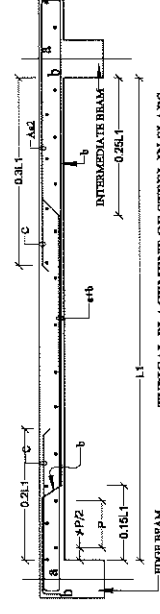
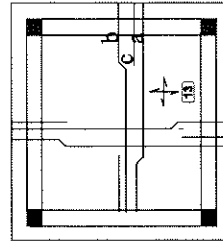
COUNTERSIGNED

APPROVED BY

Details of Footing	
Foundation	150cm (L) x 150cm(B) 200cm (D-Min.)
Jally	12mm dia @ 150cm c/c b/ways
RCC Footing	140cm (L) x 140cm(B) X 60cm (D)
Details of Columns	
Column (350mm x 350 mm)	 ● 8 - 16 Ø
Details of Beams	
Plinth Beam (250mm x 300 mm)	 8Ø 2L@150 mm c/c Stone Wall
Roof Beam (250mm x 400 mm)	 ● 8Ø main bars - 16 Ø Beam at Support Beam at Midspan

Details of Slab

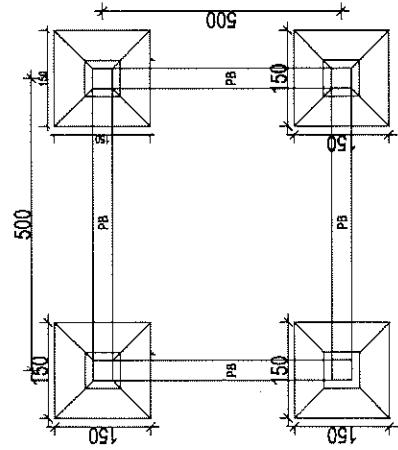
RCC Slab
(10 cm thick.)



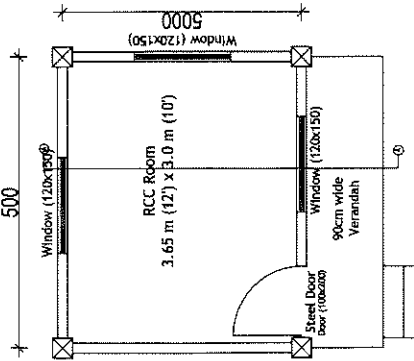
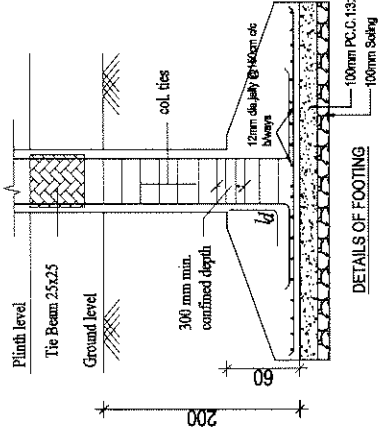
TYPICAL PLACEMENT OF STEEL IN SLABS

NOTE:

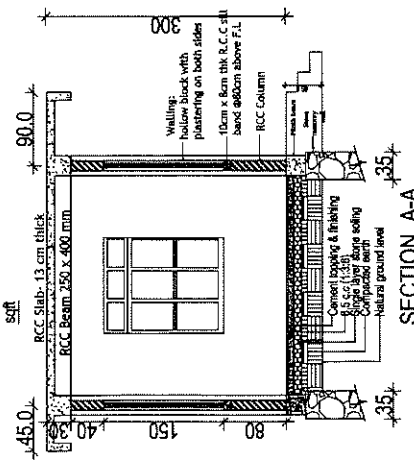
- a- alt. straight - crank bar: 10Ø @ 150mm c/c
- b- alt. straight - crank bar: 10Ø @ 150mm c/c
- c- extra top bars: 8Ø @ 300mm c/c
- d- distribution bars: 8Ø @ 200mm c/c



**FOUNDATION
LAYOUT PLAN**



PLAN (Total area = 15sqm/ 161 sqft)



SECTION A-A