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**NATIONAL INSTITUTE OF TECHNOLOGY
(Under the Ministry of HRD, Govt. of India)
KURUKSHETRA**

TENDER NOTICE

Advertisement No.

Sealed percentage rate tenders on prescribed tender documents for the below noted work(s) are invited from the contractors borne on the approved list of contractors with Central/ State Govt., Public Sector undertakings/ registered Coop. L&C Societies. The eligibility criteria is given below. Tenders will be received up to 29-05-2009 at 3:00 P.M. at N.I.T. KKR and will be opened at the same time and date in presence of the contractors or their authorized representatives who may like to be present at that time. The detailed notice inviting tenders and drawings can be seen in the office of the Executive Engineer on any working day during office hours. The tender documents can be obtained from NIT, office on any working day from 9 A.M. to 5 P.M. and sale of tender documents will close at 12 Noon on 29-05-2009. If any holiday falls on the due date (s) then tenders will be received on the next working day. Earnest money of the works may be deposited with the undersigned in the shape of Bank Draft/ Deposit at Call in favour of the Director N.I.T. Kurukshetra payable at any scheduled Bank at Kurukshetra. Details can be seen on Institute web-site www.nitkr.ac.in.

Sr. No	Name of Work	Estimated Cost (Rs.) (In Lacs)	Earnest money (Rs.)	Time Limit	Date & Time of opening of Tender	Cost of tender document (Rs.) (Non- refundable)
1.	Extension of Guest House Building at NIT, Kurukshetra	Rs.160.61 Lac (One Hundred Sixty Lac & Sixty One Thousand only) (Approx.)	Rs.3,21,000/- (Rs. Three Lac Twenty One Thousand Only)	9 (Nine) Months	29.5.2009 At 3.00 PM	15,000/- (Rs. Fifteen Thousand Only)

Eligibility Criteria of Contractors:-

1. Financial Bid of those bidders who fail to meet the following eligibility criteria shall not be opened.
 - a) Should have achieved a financial turnover of at least 50% value of this contract, in any one year during the last five year calculated on the basis of 10% addition of value per year.
 - b) The agency should have executed in last five years one building works costing more than 40% or Two building works costing 30% each of the estimated cost.

NOTE:-

1. Conditional tender will not be accepted.
2. Tender documents will be issued only after cost of tender document is deposited with the Institute cashier and proof there of is shown to the tender issue committee.
3. Tender documents downloaded from Institute web-site, the bidder must deliver bid earnest money specified for the work alongwith cost of tender documents.
4. The validity of tender should be at least Ninety days.
5. Earnest money in cash shall not be accepted.
6. Tenders will be received by hand; telegraphic tenders will not be accepted.
7. Earnest money in shape of bank draft/deposit at call in favour of Director N.I.T. Kurukshetra payable at any scheduled bank at Kurukshetra will only be accepted.
8. Tender documents will not be issued on postal or telegraphic request.
9. The tenderer will be required to give the proof of his/their registration with any of the above departments for appropriate category before tender documents are issued to him/them.
10. Application for tender documents must accompany with attested copy of registration certificate of the contractor.
11. The rates must be quoted according to prevailing H.S.R. (1988).
12. The firm/contractors should possess license/permission from the Chief Elect. Inspector Haryana for carrying out the work of Electric installations.
13. The tender must be accompanied with earnest money if any, in a separate envelope.
14. Ten percent (10%) security subject to a maximum of 5% of the agreement amount will be deducted from each bill of the contractor and it will be refunded 12 months after the work has actually been completed i.e. making of final payment, after making all necessary recoveries if any.
15. Coop. L&C societies will be issued tenders only after permission from the Coop. Deptt. Haryana is produced.

Executive Engineer

Witness

For Director N.I.T. Kurukshetra

CHAPTER 2

Procedure for Submission and opening of Tenders

1. The tender documents issued by this office contain pages to
2. While tendering for the works, tenderer shall adopt two envelope system:-
 - (i) Conditions shall be put in the first envelope duly sealed along with price for the withdrawal of each condition.
 - (ii) The second envelope superscribed as “price bid envelope” shall contain only the price bid and no condition, clarification or observation.

The second envelope should be superscribed as:-

“Extension of Guest House Building at NIT, Kurukshetra.”

Both the sealed envelopes along with other documents namely:-

- (a) duly accepted power of attorney in original along with its two attested copies, in the name of tenderer or his authorized representative or agent to act on behalf of the contractor and (b) documents in respect of payment of earnest money in favour of Director N.I.T. KKR payable at any scheduled Bank at Kurukshetra.
3. If the tenderer fails to price the conditions and deviates from the above procedure, his tender would be treated as invalid and it would not be opened or if erroneously opened shall not be considered at all. However, it is made clear that in case the first envelope is not received along with the “price bid envelope” it will be presumed that the tenderer has no condition to offer and thus it will be treated as without condition.
4. In case any tenderer does not comply with the procedure given above and fails to give financial implications and pricing of his conditions (for the withdrawal of the conditions at variance with the stipulation of N.I.T.), it will be presumed that he is not interested in the work and his second envelope i.e. “price bid envelope” will be returned to him unopened and will not be considered while opening and deciding the second envelope of tenderers.
5. The tenders which are not accompanied with the earnest money or do not strictly follow the technical requirements shall be summarily rejected
6. Tender’s quotations which are depended upon the other quotations of other tender shall be summarily rejected.
7. The Director N.I.T. Kurukshetra reserves the right to cancel any or all tenders without assigning any reason.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.KKR

CHAPTER 3

Cost of tender documents Rs. 15000/- deposited vide N.I.T. Book No.....Receipt No.....
dated.....

Name of Contractor.....

Name of Work: - **Extension of Guest House Building at NIT, Kurukshetra.**

NATIONAL INSTITUTE OF TECHNOLOGY N.I.T. CONSTRUCTION BRANCH KURUKSHETRA PERCENTAGE RATE TENDER

AND CONTRACT FOR WORKS (Form F-1)

GENERAL RULES AND DIRECTIONS FOR THE GUIDANCE OF CONTRACTOR

1. All works proposed for execution by contract will be notified in a form of invitation to tender pasted on a board hung up in the Institute and signed by the Director/Engineer-in-charge N.I.T. Construction Branch.
This form will state the work to be carried out as well as the date for submitting and opening tenders, and the time allowed for carrying out the work; also the amount of earnest money to be deposited with the tender, and the amount of the security to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and schedule of rates and any other documents required in connection with the work, signed for the purpose of identification by the Engineer-in-charge shall also be opened for inspection by the contractor at the office of the Engineer-in-charge during office hours.
2. In the event of the tender being submitted by firm, it must be signed separately by each member thereof, or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so.
3. Any person who submits a tender shall fill up the usual printed form, stating at how much percent above or below the rates specified in Rule 1 he is willing to undertake the work. Only percentage more or less on all the Haryana schedule of rates 1988 shall be made. Tenders which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out of the work or which contain any other conditions of any sort, will be liable to rejection. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tenders shall have the name and number of the work to which they refer written outside the envelope.
4. The tender opening committee will open tenders in the presence of any intending contractors or their authorized agents who may be present at the time and will enter the amount of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted a receipt for the earnest money forwarded therewith shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in rule 1. In the event of a tender being

rejected the earnest money forwarded with such unaccepted tender shall thereupon be returned to the contractor making the same.

5. The Director shall have the right of rejecting all or any of the tenders.
6. The Institute may refuse or suspend payments on account of a work when executed by a firm or by contactors described in their tender as a firm, unless receipts are signed by all the partners, or one of the partners, or some other person produces written authority enabling him to give effectual receipts on behalf of the firm.
7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgement of payment to the Engineer-in-charge/Director and the contractor shall be responsible for seeing that he procures a receipt by the Registrar or his authorized officer.
8. The memorandum of work tendered for and the memorandum of materials to be supplied by the N.I.T. Construction Branch and their issue rates shall be filled in and completed in the office of the Engineer-in-charge before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and completed, he shall request the office to have this done before he completes and delivers his tender.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.KKR

TENDER FOR WORKS

I/We hereby tender for the execution for the Director of the N.I.T. Kurukshetra (here in after referred to as N.I.T. KKR) of the work specified in the under-written memorandum within the time specified in such memorandum at* percent below/above the rates entered in the Haryana schedule of rates 1988 mentioned in Rule 1 and in accordance in all respects with specifications, designs, drawings and instructions in writing referred to in Rule 1 hereof and in clause 11 of the annexed conditions, and with such material as are provided for and by in all other respects in accordance with such conditions so far as applicable.

*in figures as well as in words.

MEMORANDUM

(a) General description: **Extension of Guest House Building at NIT, Kurukshetra.**

(b) Estimated cost: Rs 160.61 Lacs (Approx.)

(c) Earnest money: Rs 3,21,000.00

(d) Security deposit including earnest money 10%

(e) Percentage, if any, to be deducted from Rs..... Bills (Rupees per month)

(f) Time allowed for the work from date of written order to commence 9(Nine) Months

(a) If several sub-works are included, they should be detailed in a separate list.

(b) This deposit will vary from 1% to 10% of the estimated cost of the work according to the requirements of the cases.

(c) This percentage, where no security deposit is taken will vary from 5% to 10% according to the requirements of the case. Where security deposit is taken, see note to clause 1 of conditions of contract.

Item No.	Item of work	Unit	Per	RATE TENDERED	
				In figure Rs. P	In words

Note: To be continued on additional sheets as found necessary

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Contractor

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Witness

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Engineer-in-charge
For Director, N.I.T.KKR

Should this tender be accepted, I/we hereby agree to abide by to fulfill all the terms and provisions of the said conditions of contract annexed hereto, so far as applicable, or in default thereof to forfeit and pay to the N.I.T.KKR or its successors in office the sums of money mentioned in the said conditions. The sum of Rs.....vide Bank Draft/DAC No..... drawn on..... * is herewith forwarded in Deposit at Call receipts, as earnest money the full value of which is to be absolutely forfeited to the said N.I.T.KKR or its successors in office, without prejudice to any other rights or remedies including action under clause 2 & 3 of condition of contract annexed hereto of the said N.I.T.KKR or its successors in office, should I/we fail to commence the work specified in the above memorandum otherwise in accordance with Clause 1 (A) of the said conditions of contract, otherwise the said sum of Rs.

*Give particulars and numbers

Strike out (a) if no cash security deposit is taken strike out (b) if any cash security deposit is taken.

Shall be retained by N.I.T.KKR as on account of such security deposit as aforesaid: or (b) the full value of which shall be retained by N.I.T.KKR on account of the security deposit specified in Clause 1 (B) of the said condition of contract.

Signature of contractor before submission of tender.

Dated the..... day of..... 20.....

\$Signature of witness to contractor's signature

Witness\$.....

Address

Signature of the officer by whom accepted.

Occupation.....

The above tender is hereby accepted by me for and on behalf of Director, N.I.T. Kurukshetra

Dated the..... day of20.....

..... Contractor

..... Witness

..... Engineer-in-charge For Director, N.I.T.KKR

CONDITIONS OF CONTRACT

Security deposit.

*This will be the same percentage as that in the tender at(c).

+The amount of the percentage not exceeding 10% will be fixed in every case to suit requirements e.g., if it is fixed at 8% and the security deposit only amount to 5% of the estimated cost of the work, then 3% should be deducted from every payment. If the percentage is fixed at 10 % and the security deposit only amounts to 8% then 2% should be deducted, and so on.

Clause 1- The person/ persons whose tender may be accepted (hereinafter called the contractor) shall (A) [within one day for a contract of Rs. 1000 or less, two days for Rs. 2000 or less and so on, up to a limit of ten days of receipt by him of the notification of the acceptance of his tender] deposit with the Registrar or his authorized officer in cash or Govt. Securities endorsed to the Director (if deposited for more than 12 months) a sum sufficient with the amount of the earnest money deposited by him with his tender to make up the full security deposit specified in the tender, or (B) permit N.I.T. KKR at the time of making any payment to him for work done under the contract to deduct such sum as will (with earnest money deposited by him) amount to -- * ten percent of all moneys so payable, such deductions to be held by N.I.T. KKR by way of security deposit]. Provided always that in the event of the contractor depositing a lump-sum by way of security deposit as contemplated at (A) above, then and in such case, if the sum so deposited shall not amount to 10⁺% of the total estimated cost of work, it shall be lawful for N.I.T. KKR at the time of making any payment to the contractor for work done under the contract to make up the full percentage of ten percent by deducting a sufficient sum from every such payment as last aforesaid. All compensation or other sums of money payable by the contractor to the N.I.T. KKR under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit from any sums which may be due or may become due to the contractor by N.I.T. KKR on any account whatsoever, and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall within ten days thereafter make good in cash or Govt. Securities endorsed as aforesaid any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. All interest which may from time to time accrue due any payable on the said security deposit shall be paid as the same shall be realized to the contractor.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

Compensation for delay

Clause 2— The time allowed for carrying out the work as entered in the Tender shall be strictly observed by the contractor and shall be reckoned from the date of which the order to commence work is given to the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence (time being deemed to be the essence of the contract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one percent, which the Director/Dean (E, EM & C) may levy on the amount of the estimated cost of the whole work as shown in the tender for every day that the work remains un-commenced or unfinished after the proper dates. And further to ensure good progress during the execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month, to complete one-fourth of the whole of the work before one-fourth of whole time allowed under the contract has elapsed: one-half of the work before one half and such time as elapsed, three-fourth of the work before three-fourth of such time has elapsed. In the event of the contractor failing to comply with this condition he shall be liable to pay as compensation an amount equal to one percent, which the Director/Dean (E, EM & C) may levy, on the said estimated cost of the whole work for every day that the due quantity of work remains incomplete. Provided always that the entire amount of compensation to be paid under the provisions of this clause shall not exceed ten percent on the estimated cost of the work as shown in the tender. The Director may, on representation from the contractor reduce the amount of compensation and his decision in writing shall be final.

Action when whole of security deposit is forfeited.

Clause 3 – In any case in which under any clause or clauses of the contract the contractor has rendered himself liable to pay compensation amounting to the whole of his security deposit (whether he paid in one sum or deducted by installments), the Engineer-in-charge on behalf of the Director, N.I.T. KKR shall have power to adopt any of the following courses, as he may deem best suited to the interests of N.I.T. KKR.

(a) To rescind the contract(of which recession notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence), and in which case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of N.I.T. KKR.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

(b) To employ labour paid by the N.I.T. KKR and to supply materials to carry out the work, or any part of the work, debiting to the contractor with the cost of the labour and the price of the materials (of the amount of which cost and price, a certificate of the Engineer-in-charge shall be final and conclusive against the contractor), and crediting him with the value of the work done, in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract, the certificate of the Engineer-in-charge as to the value of the work done shall be final and conclusive against the contractor.

(c) To measure the work of the contractor, and to take such part thereof as shall be unexecuted out of his hands, and to give it to another contractor to complete, in which case any expense which may be incurred in excess of the sum such would have been paid to the original contractor, if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Engineer-in-charge shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by N.I.T. KKR under the contract or otherwise, or from his security deposit or the proceeds of sale thereof or a sufficient part thereof.

In the event of any of the above courses 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 any engagements, or made any advances on account of or with a view to the execution of the work for the performance of the contract. And in case the contract shall be rescinded under the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work there to for actually performed under the contract, unless and until the Engineer-in-charge will have 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.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.
KKR

Contractor remains liable to pay compensation if action not taken under clause 3

Clause 4-- In any case in which any of the powers, conferred upon the Engineer-in-charge by clause 3 hereof shall have become exercisable and the same have not have been exercised, the non exercise there of shall not constitute a waiver of any of the conditions there of and such power shall notwithstanding be exercisable in the event of any future case of default by the contractor for which by any clause hereof he is declared liable to pay compensation amounting to the whole of his security deposit, and liability of the contractor for past and future Compensation shall remain unaffected. In the event of the Engineer-in-charge exercising either of the powers (a) or(c) vested in him under the preceding clause he may, if he so desires, take possession of all or any tool, plants material and stores in or upon the works, or the site thereof or belonging to the contractor, or procured by him 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 contractor or his clerk of the works, foreman or other authorized agent, require him 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 expense or sell them 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 expense of any such removal, and the amount of the proceeds and expenses and of any such sale be final and conclusive against the Contractor.

Power to take possession of or require removal of sell contractors plant.

Extension of time

Clause 5—If the contractor shall desire an extension of the time for the completion of the work on the grounds of his having unavoidable hindrance in its execution or on any other ground, he shall apply in writing to the Engineer-in-charge within 30 days, of the date of the hindrance, on account of which he desires such extension as aforesaid and the Prof. I/C (E & C) Engineer-in-charge shall, if in his opinion (which shall be final) reasonable ground be shown, therefore, authorize such extension of time, if any, as may, in his opinion, be necessary or proper.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

Contractor to submit a return every month on any works claimed as extra.

Clause 5-A – The contractor shall deliver in the office of the Engineer-in-charge on or before the 10th days of every month during the continuance of the work covered by his contract, a return showing details of any work claimed for as extra, such return shall also contain the value of such work as claimed by the contractor, which value shall be based upon the rate and prices mentioned in the contract or in the schedule of rates in force in the* District for the time being. The contractor shall include in such monthly return particulars of all claims of what ever kind and however arising, which at the date thereof he has or may claim to have against the Engineer-in-charge under or in respect of or in any manner arising out of the execution of work, and the contractor shall be deemed to have waived all claims not included in such return and will have no right to enforce any such claims not so included, whatsoever be the circumstances.

*District rate mean the Kurukshetra Distt., rate of the Haryana P.W.D. schedule of rates 1988 issued by Chief Engineer Haryana, P.W.D. B&R.

Final Certificate

Clause 6 – Without prejudice to the rights of N.I.T. KKR under any clause hereinafter contained, on completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer of such completion, but no such certificate shall be given nor shall the work be considered to be completed until the contractor shall have rectified the defects of the works if any, pointed out in writing and removed from the premises on which the work shall be executed or of which he may have had possession for the purpose of the execution, all scaffolding, surplus materials, and rubbish, and cleaning off the dirt on or before the date fixed for completion of the work; the Engineer-in-charge may at the expanse of the contractor remove such scaffolding surplus rubbish and dispose off the same as he thinks fit and clean of such dirt aforesaid and the contractor shall forthwith pay the amount of all expanses so incurred, shall have no claim in respect of any such scaffolding or surplus materials aforesaid except for any sum actually realized by the sale there-of.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

Clause 7—No payments shall be made for works, estimated to cost less than rupees one thousand, till after the whole of the works shall have been completed and a certificate of completion given. But in the case of works estimated to cost more than rupees one thousand, the contractor shall on submitting bill thereof be entitled to receive a monthly payment proportionate to the part thereof, then approved and passed by the Engineer-in-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. But all such intermediate payments shall be regarded as payment by way of advance against the final payment only and not as payments for work actually done and completed and shall not preclude the requiring of, bad, unsound, and imperfect or unskillful work to be removed and taken away and reconstructed or re-erected, or be considered as an admission of the due performance of the contractor, any part there of in any respect of the acquiring of any claim, not shall it conclude, determine or affect in any way the powers of the Engineer-in-charge under these conditions, or any of them as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or affect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for completion of the work otherwise the Engineer-in-charge's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on all parties.

Payment on intermediate certificate to be regarded as advances.

Clause 8 – A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer-in-charge for the work executed in the previous months, and the Engineer-in-charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified, and the claim, as far as admissible, if possible, before the expiry of ten days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid the Engineer-in-Charge may depute a subordinate to measure up the said work in presence of the contractor whose counter signature to measurement list will be sufficient warrant; the Engineer-in-charge may prepare a bill and from such list, which shall be binding on the contractor in all respects.

Bill to be Submitted monthly

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

Clause 9—The contractor shall submit all bills on the printed forms to be had on application from the office of the Engineer-in-charge, and the charges in the bill shall always be entered at the rates specified in the tender or in case of extra ordered in pursuance of these conditions, and not mentioned or provided for in the tender at the rates hereinafter provided for such work.

Bills to be on printed forms.

Clause 10—If the specification of estimates of the work provides for the use of any special description of materials to be supplied from the Engineer-in-charge’s store, or if it is required that the contractor shall use certain stores to be provided by the Engineer-in-charge, (such materials and stores; and the prices to be charged thereof as hereinafter mentioned being so far as practicable for the convenience of the contractor but not so as in any way to control the meaning or effect of this contract, specified in the schedule or memorandum hereto annexed), the contractor shall be supplied with such material and stores as required from time to time to be used by him for the purposes of the contract only and the value of the full quantity of materials and stores so supplied and the rates specified in the said schedule or memorandum may be set off or deducted from any sums then due, or thereafter to become due to the contractor under the contract or otherwise, or against or from the security deposit, or the proceeds of sale thereof; if the same is held Govt. Securities, the same or a sufficient portion thereof being this case sold for the purpose. All materials supplied to the contractor shall remain the property of the contractor, but shall not on any account be removed from the site of the work without the written permission of the Engineer-in-charge and shall at all time be open to inspection by him. Any such material, 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 store, if by a notice in writing under his hand he shall so require, but the contractor shall not be entitled to return any such material unless with such consent and shall have no claim for compensation on account of any such material so supplied to him as aforesaid being unused by him, for any wastage in or damage to, any such materials.

Stores supplied by N.I.T. KKR

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

Works to be executed in accordance with specifications, drawings, orders etc.

Clause-11—The contractor shall execute the whole and every part of the work in most substantial and workmanlike manner and both as regards materials and otherwise in every respect in strict accordance with the specification. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer-in-charge and lodged in his office, and to which the contractor shall be entitled to have access at such office, or on the site of the work for the purpose of inspection during office hours, and the contractor shall if he so requires, be entitled at his own expense to make or cause to be made copies of the specifications, and of all such designs, drawings and instruction as aforesaid.

Removal of employees workmen and foremen

Clause 11 (a)—The Engineer-in-charge shall have full powers at all times to object to the employment of any workman, foreman or other employee on the work by the contractor, and if the contractor shall receive notice in writing from the Engineer-in-charge requesting the removal of any such man or men from the works, the contractor shall comply with the request forthwith.

No such workman, foreman or other employee after his removal from the works by request of the Engineer-in-charge shall be re-employed or reinstated on the works by the contractor at any time, except with the previous approval in writing of the Engineer-in-charge

The contractor shall not be entitled to demand the reason from the Engineer-in-charge for requiring the removal of any such workman, foreman or other employee.

Alterations in specifications and designs

Clause 12—The Engineer-in-charge shall have power to make any alternation in, omission from additions to 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 the contractor shall be bound to carry out the work in accordance with any instruction which may be given to him in writing signed by the Engineer-in-charge and such alteration, omission, addition or substitution shall not invalidate the contract, and any altered, additional or substituted work, which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work, on the same rates as are specified

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T. KKR

in the tender for the main work. The time for the completion of the work shall be extended in the proportion that the altered, additional or substituted work bears to the original contract work, and the certificate of the Engineer-in-charge shall be conclusive as to such proportion. And if the altered, additional or substituted work includes any class of work, for which no rate is specified in this contract, then such class work shall be carried out at the rates entered in schedule of rates of the Distt; subject to the same percentage above or below as for the items included in the contract; and if such class of work is not entered in scheduled of rates of the Distt., then the contractor shall, within seven days, of the date of his receipt of the order to carry out the work, inform the Engineer-in-charge of the rate which it is his intention to charge for such class of work. If the Engineer-in-charge does not agree this rate he shall by notice in writing be at liberty to cancel his order to carry out such work, and arrange to carry it out in such manner as he may consider advisable, provided always that if the contractor shall commence work or incur any expenditure in regard thereto before the rates shall have been determined as lastly herein before mention, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of determination of the rates as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of a dispute, decision of the Director of the N.I.T. KKR shall be final.

No compensation for alteration or restriction of work be carried out.

Clause 13—If at any time after the commencement of the work the N.I.T. KKR shall for any reason whatsoever not require the whole work thereof as specified in the tender to be carried out, the Engineer-in-charge shall give notice in writing of the fact to the contractor who shall have no claim to have any payments or compensation whatsoever on account of any profit or advantage, which he might have derived from the execution of the work in full, that which he did not derive in consequence of the full amount of the work not having been carried out, neither shall he have any claim of compensation by reason of any

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Contractor

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Engineer-in-charge
For Director N.I.T. KKR

alternations having been made in the original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.

Clause 14—If it shall appear to the Engineer-in-charge or his subordinate-in-charge of the work that any work has been executed with unsound, imperfect or unskillful workmanship or with material of any inferior description or that any material or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, the contractor shall on demand in writing from the Engineer-in-charge specifying the work materials or articles complained of notwithstanding that the same may have been in advertently 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 and other proper suitable materials or articles at his own proper charges and cost; and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in his demand aforesaid, then, the contractor shall be liable to pay compensation at the rate of 1% on the amount of the estimate for every day not exceeding ten days, while his failure to do so shall continue and in the case of any such failure the Engineer-in-charge may, rectify or remove and re-execute the work or remove and replace with other materials or articles compound of as the case may be, at the risk and expense in all respects of the contractor.

Action and compensation payable in case of bad work

Clause 15—All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-in-charge and his subordinates and the contractor shall at all times during the usual working hours and at all other time at which reasonable notice of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor either himself be present to receive the instructions or have a responsible agent duly accredited in writing be 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.

Works to be open to inspection.

Contractor or responsible Agent to be percent

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Engineer-in-charge
For Director N.I.T. KKR

Clause 16—The contractor shall give not less than five day’s notice in writing to the Engineer-in-charge or his Subordinate-in-charge of the work before covering up or otherwise placing beyond the reach of the measurement any work in order that the same may be measured and correct dimension thereof be taken before the same is so covered up placed beyond the reach of measurement and shall not cover up or place beyond the reach of measurement, any work without the consent in writing of the Engineer-in-charge or his Subordinate-in-charge of the work, if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained of 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 material with which the same was executed

Notice to be given before work covered up

Clause 17—If the contractor or his work-people or servants shall break, deface, injure or destroy any part of a building in which they may be working to, any building road fence, enclosure or grass land and cultivated ground continues 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 any imperfections ,maintenance become apparent in it within **12 months** after a certificate final or other of its completion shall have been given by the Engineer-in-charge as aforesaid, the contractor shall 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 be then or at any time thereafter may become due to the contractor or from his security/ bank guaranty deposit or the proceeds of sale thereof or of a sufficient portion thereof.

Contractor liable for damage done and for imperfections for 12 months after certificate

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Contractor

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Engineer-in-charge
For Director N.I.T. KKR

Clause 18—The contractor shall supply at his own cost all material (except such special materials, if any as may in accordance with the contract be supplied from the Engineer-in-charge’s stores) plants, tools, appliances , implements, ladders, cordage, tackle, scaffoldings 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 referred to in these conditions or not or which may be necessary for the purpose of satisfying or complying with carriage there to and from the work. The contractor shall also supply without charge the requisite person with the means & material as is necessary for the purpose of setting out work and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work of materials. Failing his so doing, the same may be provided by the Engineer-in-charge at the expenses of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceed of sale thereof or of sufficient portion thereof.

Contractor to supply plant ladders scaffolding etc.

The contractor shall also provide all necessary fencing all lights, required to protect the public from accident and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that 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 such suit, action 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.

And be liable for damages arising from non-provision of lights, fencing etc.

Clause-18 (a)—The final bill of the contractor unless or until he furnishes to the satisfaction of the Engineer-in-charge-a proof of the price of earth used for the works having been fully paid to owners of the land from witch the earth was removed or of the matter having been amicably settled with them. The contractor shall also be liable to indemnify the N.I.T. KKR against all claims made, proceedings and action taken by any person in respect of the price of the earth removed by the contractor from his land for the work against all losses damages, and expanses which the N.I.T. KKR suffer or incur as a result of such claims

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Engineer-in-charge
For Director N.I.T. KKR

Clause 19—No female labour shall be employed within the limits of cantonment.

Labour

Clause 19 (A)—No labourer below age of 14 years shall be employed on the work.

Clause 19(B)—The contractor shall pay his labourer not less than the wages paid for similar work in the neighborhood.

Clause 20—No work shall be done on Sundays without the sanction in writing of the Engineer-in-charge.

Work on Sundays.

Clause 20 (A)—In every case in which by virtue of the provisions of section, 12, sub-section (1) of the Workmen’s Compensation Act 1923, N.I.T. KKR is obliged to pay compensation to a workman employed by the contractor, in execution of the works. N.I.T. KKR will recover from the contractor the amount of the compensations so paid; and without prejudice to the rights of N.I.T. KKR under section 12, sub-section (2) of the said Act. N.I.T. KKR shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by N.I.T. KKR to the contractor whether under this contract or otherwise.

Contractor liable for payments of compensation to injured workmen, or, in case death, to his relations.

N.I.T. KKR 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 N.I.T. KKR full security for all costs for which N.I.T. KKR might become liable in consequence of contesting such claim.

Clause 21 – The contract shall not be assigned or sublet without the written approval of the Executive Engineer. And if the contractor shall assign or sublet his contract or attempt to do so or become insolvent or commence any insolvency proceeding 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, be given, promised or offered by the contractor any of his servants or agents to any officer or person in the employment of N.I.T. KKR in any way relating to his office or employment if any such officer or person shall become in any way directly or indirectly interested in the contract, the Executive Engineer may thereupon by notice in writing rescind the contract and the security deposit of the contractor shall there upon stand forfeited and be absolutely at the disposal of N.I.T. KKR, and the same consequences shall ensue as if the contract had been rescinded under clause 3

Work not to be sublet

Contract may be rescinded and security deposit forfeited for subletting, bribing or if contractor becomes insolvent.

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Contractor

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Engineer-in-charge
For Registrar N.I.T.

hereof, and in addition the contractor shall not be entitled to recover or be paid for any work thereof actually performed under the contract.

Clause 22—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 N.I.T. KKR without reference of the actual loss or damage sustained, and whether or not any damage shall have been sustained.

Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss.

Clause 22(A)—Any excess payment made to the contractor inadvertently or otherwise under this contract or on any account whatever and any other sum found to be due to N.I.T. KKR by the contractor in respect of this contract, any other contract or work order, any account whatever, may be deducted from any sum whatsoever payable by N.I.T. KKR to the contractor either in respect of contract or any work order or contract of any other account.

Deduction of amounts due to N.I.T. KKR on any accounts whatsoever to be permissible from sums payable to a contractor.

Clause 23 – In the case of a tender by partners, any change in the constitution of the firm shall be forthwith notified by the contractor to the Engineer-in-charge for his information.

Changes in constitution of firm.

Clause 24—All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Honorary Advisor, N.I.T. KKR for the time being who shall be entitled to direct at what point or points and in what manner they are to be commenced and from time to time carried on.

Work to be under direction of Honorary Advisor.

Clause 25—No claims for payment of an extraordinary nature, such as claims for bonus, for extra labour, employed in completing the work before the expiry of the contractual period at the request of the Engineer-in-charge or claim for compensation where work has been temporarily brought to a standstill though no fault of the contractor, shall be allowed unless and to the extent that the same shall have been expressly sanctioned by the Board of Governors of the N.I.T. KKR.

Claims for payment of an extraordinary nature to be referred to N.I.T. KKR for decision.

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Engineer-in-charge
For Director N.I.T. KKR

Arbitration clause

Clause 25(A) (1) If any dispute of difference of any kind what so ever shall arise between the N.I.T., Kurukshetra/ his authorized agents and the contractor in connection with or arising out of the contract, or the execution of the work that is (i) Whether before its commencement or during the progress of the work or after its completion, (ii) and whether before or after termination, abandonment or breach of the contract; it shall in the first instance be referred to for being settled by the Executive Engineer-in-charge of the work at the time and he shall within a period of sixty days after being requested in writing by the contractor to do so, convey his decision to the contractor, and subject to arbitration as herein after provided, such decision in respect of every matter so referred shall be final and binding upon the contractor. In case the work is already in progress, the contractor will proceed with the execution of the work on receipt of the decision by the Executive Engineer-in-charge as aforesaid; with all due diligence whether he or the Director of N.I.T. Kurukshetra/ his authorized agent requires arbitration as here in after provided or not. If the Executive Engineer-in-charge of the work has conveyed his decision to the contractor and no claim to arbitration has been filed with him by the contractor within a period of sixty days from the receipt of letter communicating the decision, the said decision shall be final and binding upon the contractor and will not be a subject- matter of arbitration at all. If the Executive Engineer-in-charge of the work fails to convey his decision within a period of sixty days, after being requested, as aforesaid, the contractor may, within further sixty days of the expiry of first sixty days from the date on which request has been made to the Executive Engineer-in-charge requests the Director that the matters in dispute be referred to arbitration, as hereinafter provided.

(2) In case of any dispute or differences, in respect of which the decisions are not final and conclusive, the same shall be referred to arbitration by a sole arbitrator i.e. the Chairman, BOG, at the request in writing of either party, made in a communication sent through registered AD post. The arbitrator to whom the matter is originally referred being transferred or vacating his office, his successor in office, as such shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

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Engineer-in-charge
For Director N.I.T. KKR

(3) It is also a term of this arbitration agreement that no person other than a person appointed by the N.I.T. KKR authorities shall act as arbitrator and if for any reason that is not possible the matter shall not be referred to arbitration at all. In all cases where the agreement amount awarded exceeds Rs. 25,000/- (Rupees Twenty Five Thousand only) the arbitrator must invariably give reasons for his award in respect of each claim and counter- claim separately.

(4) The arbitrator shall award separately giving his award against each claim and dispute raised by either party including any counter- claims individually and that any lump-sum award shall not be legally enforceable.

(5) The following matters shall not lie within the purview of arbitration.

(a) Any dispute relating to the levy of compensation as liquidated damages which has already been referred to the Director and is being heard or/ and has been finally decided by the Director, N.I.T. Kurukshetra.

(b) Any dispute in respect of substituted, altered, additional work/ omitted work/ defective work referred by the contractor for the decision of the Director if it is being heard or has already been decided by the Director, N.I.T., Kurukshetra.

(c) Any dispute regarding the scope of the work or its execution or suspension or abandonment that has been referred by the contractor for the decision of the Director, N.I.T., Kurukshetra and has been so decided finally by the Director.

(6) The independent claims of the party other than the one getting the arbitrator appointed, as also counter-claims of any party will be entertained by the arbitrator not with standing that the arbitrator had been appointed at the instance of the other party.

(7) It is also a term of this arbitration agreement that where the party invoking arbitration is the contractor, no reference for arbitration shall be maintainable unless the contractor furnishes to the satisfaction of the Executive Engineer-in-charge of the work, a security deposit of a sum determined according to details given below and the sum so deposited shall on the termination of the arbitration proceedings, be adjusted against the cost, if any, awarded by the arbitrator against the claimant party and the balance remaining after such adjustment in the absence of any such cost being awarded, the whole of the sum will be refunded to him within one month from the date of the award:-

Amount of claims	Rate of security deposit
(i) For claims below Rs.10,000/-	2% of amount claimed
(ii) For claims of Rs. 10,000/- and above and below Rs. 1,00,000/-	5% of amount claimed
(iii) For claim of Rs, 1,00,000/- and above	7 ½% of amount claimed

The stamp fee due on the award shall be payable by the party as desired by the arbitrator and in the event of such party's default the stamp-fee shall be recoverable from any other sum due to such party under this or any other contract.

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Engineer-in-charge
For Director, N.I.T.,KKR

- (8) The venue of arbitration shall be such place or places as may be fixed by the arbitrator in his sole discretion. The work under the contract shall continue during the arbitration proceedings.
- (9) Neither party shall be entitled to bring a claim for arbitration if the appointment of such arbitrator has not been applied within 6 months:-
- (a) Of the date of completion of the work as certified by Executive Engineer in charge, or
 - (b) Of the date of abandonment of the work, or
 - (c) Of its non-commencement within 6 months from the date of abandonment, or written orders to commence the work as applicable, or
 - (d) Of the completion of the work through any alternative agency or means after withdrawal of the work from the contractor in whole or in part and/ or its rescinding, or
 - (e) Of receiving an intimation from the Executive Engineer-in-charge of the work that final payment due to or recovery from the contractor had been determined which he may acknowledge and/or receive Which ever of (a) to (e) above is the latest.

If the matter is not referred to arbitration within the period prescribed above, all the rights and claims of any party under the contract shall be deemed to have been forfeited and absolutely barred by time even for civil litigation notwithstanding.

- (10) It is also a term of this arbitration agreement that no question relating to this contract shall be brought before any Civil Court without first involving and completing the arbitration proceedings as above, if the scope of the arbitration specified herein covers issues that can be brought before the arbitrator i.e. any matter that can be referred to arbitration shall not be brought before Civil Court. The pendency of arbitration proceedings shall not disentitle the N.I.T. KKR to terminate the contract and make alternative arrangements for the completion of the work.
- (11) The arbitrator shall be deemed to have entered on the reference on the day he issued notices to the parties, fixing the first date of hearing. The arbitrator may from time to time, with the consent of the parties enlarge the N.I.T.KKR time for making and publishing the award.
- (12) It is also a term of this arbitration agreement that subject to the stipulation herein mentioned, the arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration Act. 1940 or any other law in force for the time being.

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Engineer-in-charge
For Director, N.I.T. KKR

Clause 26—The contractor shall obtain from the stores of the Engineer-in-charge all stores and articles of European or American manufacture which may be required for the work, or any part thereof or in making up articles, required thereof or in connection therewith, unless he has obtained permission in writing from the Engineer-in-charge to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the contractor by the Engineer-in-charge will be debited to the contractor in his account at the rates shown in the schedule attached to the contract and if they are not entered in the schedule- they will be debited at cost price which for the purpose if this contract shall have been incurred in obtaining delivery of the same at the stores aforesaid.

Stores of European or American manufactures to be obtained from N.I.T.

Clause 26 (A)—Any fluctuations in railway rates which may occur during the subsistence of, and affecting freights of any material to be supplied under this contract shall be brought to the notice of the “Engineer-in-charge” by the contractor within fifteen days from such date without prejudice to the rights of N.I.T. KKR should the contractor fail to comply with the above requirement, any excess or short charge on account of such increase or decrease shall be credited to or recovered from the contractor. No alteration in contract rates shall be admissible in consequence of fluctuation in railway freight when such railway freight is on account of material, which is required by a contractor in the manufacture of an article to be supplied under this contract i.e. fluctuations in railway freight on coal required for burning bricks will not be taken in to consideration, or for an article which forms part of finished work for purposes of this clause. Similarly, no alteration in rates will be allowed when a manufactured article is transported by rail from place A to place B to form part of a finished work.

Fluctuations in railway freight.

Clause 27—When the estimate on which a tender is made includes lump-sums in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question, the same rates as are payable under this contract for such item, or if the part of the work in question is not, in the opinion of Engineer-in-charge, capable of measurement, the Engineer-in-charge may at his direction pay the lump sum amount entered in the estimate, and the certificate in writing of the Engineer-in-charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of this clause.

Lump sum Estimates

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Engineer-in-charge
For Director N.I.T. KKR

Procedure where no specifications provided

Clause 28—In the case of any class of work for which there is no such specification as is mentioned in Rule 1, such work shall be carried out in accordance with district specifications and in the event of there being no district specifications then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of Engineer-in-charge.

Definition of works

Clause 29—The expression “works” or “work” where used in these conditions shall unless there be something either in the subject or context repugnant to such constructions, 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.

Clause 30—The percentage referred to at page (3) of the tender will be calculated on the gross amount (value of finished work including cost of material whether purchased from Govt. or direct) or (1) the items of work to which the rates in the tender apply and also (2) the items of work for which rates exist in the Schedule of rates of the state Haryana.

Clause 31—The terms and conditions of the agreement have been explained to me/us and I/we clearly understand them.

Clause-32- The schedule of additional conditions Haryana Public works department, contractor labour regulations, fair wage clause and the rules for protection of health and N.I.T. any arrangements for workers employed by N.I.T. KKR or its contractor shall be deemed to be part of this contract and any breach thereof shall be deemed to a breach of this contract.

Clause 33— 4% sale tax and 2% income tax + surcharge and 1% Labour Cess thereof or all taxes/Cess as applicable from time to time will be deducted from gross amount of each bill of the agency/ contractor.

Clause 34—The expression “XEN”, “Executive Engineer” and Engineer-in-charge is construed and taken to mean the Executive Engineer N.I.T., Kurukshetra.

Jurisdiction

Clause 35—Notwithstanding any other provision, all legal proceedings in respect of this contract would be subject to Jurisdiction of Courts at Kurukshetra.

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Engineer-in-charge
For Director, N.I.T. KKR

EXPLANATORY NOTES

1. The above rates are for complete work including cost of all materials, labour tools and plants and water, electricity etc., unless otherwise specified.
2. All other such items not covered by the Haryana PWD schedule of rates 1988, 2nd edition, corrected up to date & carried out, if any, will be paid for as per Haryana PWD schedule of rates 1988, 2nd edition, corrected upto date subject to the accepted tendered premium/abatement given by the contractor.
3. All clauses given in the Haryana PWD schedule of rates 1988, 2nd edition, with up-to-date correction slips shall be applicable to all the items where-ever necessary.
4. The description, rates, units, etc. of above schedule, shall be corrected as per Haryana PWD schedule of rates 1988, 2nd edition, in case of any error or omission.
5. Chapter numbers with items referred to above are of Haryana PWD schedule of rates 1988, 2nd edition, corrected upto date.
6. The whole work shall be carried out strictly in accordance with the Haryana PWD specifications book 1990 1st edition as applicable to Haryana State with upto date correction slips.
7. No premium shall be payable on the items which are not provided in the Haryana PWD schedule of rates, 1988, 2nd edition, corrected upto date.
8. Samples of all building materials, doors and windows, fittings and other articles required for use on the work shall be got approved from the Engineer-in-charge. Articles manufactured by firms of repute, approved by the Engineer-in-charge shall only be used. Only articles classified as 'First Quality' by the manufacturers shall be used. Articles which are not 'First Quality' shall be rejected by the Engineer-in-charge. Preference shall be given to those articles which bear ISI certificate mark. In case, articles bearing ISI certification mark are not available, the quality of samples brought by the contractor shall be judged by the standards laid down in the relevant ISI specifications. All materials and articles brought by the contractor to the site of work for use shall conform to the samples approved, which shall be preserved till the completion of work. Final decision to reject any material shall rest with the Engineer-in-charge. Material will be got tested in the NIT, Kurukshetra, Laboratory. If test facility is not available in NIT, Kurukshetra Laboratory, the same shall be got done from some other Govt. approved/recognized laboratory.

9. The contractor shall provide suitable measuring & weighing arrangements at site for checking of various articles brought by him to ensure mixing in specified proportions.
10. The contractor shall provide such recesses, holes, openings etc. as directed by Engineer-in-charge, as required for the Electrical/Sanitary work and nothing shall be payable on this account.
11. Thickness of RCC shall be measured and paid for as per structural sizes designed.
12. Steel used in supports, spacers and for hooks and overlaps which are not approved i.e. which are not provided according to the drawing or the instructions of Engineer-in-Charge shall not be measured for payment.
13. Wherever there is provision for flush doors only doors as bear the ISI certification marks and arranged from manufacturer of good repute shall be accepted. In case flush doors bearing ISI certification marks are not available in the market, flush doors conforming to ISI specification and arranged from manufacturers of good repute shall only be accepted and name of manufacturers to be got approved from the Institute, along with 5 years warranty to be given by manufacturer in favour of Institute In case agency fails to do so then only 50% rate of HSR 1988, 2nd edition for the same shall be paid to the agency.
14. Steel butt hinges shall strictly conform to Indian standards specification, ISI-1341-1970 (Latest edition) and dimensions given in table 2 for medium weight cold rolled mild steel butt hinges of the above specifications. Hinges shall be of good workmanship and manufactured by the firm of good repute.
15. Analysis of rates for non-schedule items which are not provided in the Notice Inviting Tender/Haryana PWD Schedule of Rates, 1988, 2nd edition corrected up to date shall be payable as per actual lowest material rates from the recognised public market suitable to the executing Division and wages of labour as applicable at the time of execution of work, plus admissible contractor's profit and overhead charges. For such items of materials, the contractor shall be required to produce original vouchers which shall be subjected to verification by the Engineer-in-Charge, if deemed necessary. The rates for Non-schedule items shall be approved by the competent authority.
16. Tender with condition regarding steel work to be done at labour rates shall be considered invalid and rejected straight way.

17. The Quantities of items given in the Schedule are tentative. These can be increased or decreased as per working architectural drawings/structural drawings.
18. For quality control, the contractor shall be required to use cement concrete mix giving a minimum cube strength as may be prescribed in the relevant structural drawings of work/IS codes. For cement concrete, cement mortar work and other items work, the tests should be regularly carried out as per procedure laid down in relevant ISI and other codes at the expense of the contractor. The rates provided in the Haryana PWD Schedule of rate, 1988, 2nd edition include the cost of such testing. If the contractor fails to bring any of the quality control lab equipment at the site of work, the items will be arranged by the Institute and recovery will be made from the contractor's bill at the rate double the cost of that item.
19. All the flooring like terrazzo, Kota stone, marble flooring etc. should be granite finished. No extra rates shall be paid on this account to the contractors.
20. In case of glazed tiles of size other than exhibited in the DNIT or not fixed, the rates for the same shall be paid as per HSR 1988, 2nd edition item no-14.48(a) (i) and no extra shall be paid.
21. Whenever bricks work earth filling embankment work is to be executed, the same has to be executed in accordance with the provision in the fly ash notification dated 04.09.1999 & 27.08.2003 i.e. by using fly ash brick and filling embankment construction by pond ash/fly ash as specified in the aforesaid notification after getting the approval from the Engineer In charge.
22. In case factory manufactured paneled and glazed doors and indoor shutters and wire gauge doors and window shutters are used, the contractor will get the name of manufacturer approved from Institute with warranty of 5 years certificate in favour of the Institute. In case of door shutters, the type of wood used by the manufacturer shall also be given. The agency shall produce a certificate that door and window shutters fixed at site are actually factory manufactured. In case agency failed to do so the rate for the same shall be paid as received at site than manufacturer shutter as per item No.17.30 and 17.31 of HSR 1988 2nd edition.
23. Fine and coarse sand shall consist of normally accruing/uncrushed material which open grading requirement simply with IS 1983 the aggregate should be of approved quarry only. The silt content in all type of aggregate should not more than 4%.

24. The contractor will use shuttering of steel plates and scaffolding of steel props only and nothing extra will be paid on this account. The contractor will submit the design of Temporary structural, Scaffolding to Institute in advance without any cost.
25. Contractor will provide a well equipped site laboratory along with trained staff for day to day testing of material.
26. The contractor will employ well qualified Engineers such as degree holder and diploma holders. In case of non employment of qualified Engineers, deduction will be made from the bill/due payment of the contractor on account of salary per month @ Rs. 60000/- for degree holder & 40000/- for diploma holder.
27. Water should be got tested at regular interval i.e. maximum of three months from the laboratory approved by Engineer no extra cost will be paid.
28. (a) All the taxes, local taxes fees & Cess etc. as applicable from time to time will be borne by the contractors.
(b) Labour Cess and services tax as applicable from time to time shall be deducted from each bill of the agency/contractor, as per instruction issued by Govt. of Haryana.
(c) The contractor will quote rate both in figures and words.
29. If the agency does not fill/quote the rate of any item then it will be considered as nil and same will be executed by the agency free of cost and it will be contingents to work. The agency will have to give an undertaking on account of above otherwise earnest money will be forfeited, in addition Engineer-In charge may also black list the agency.
30. Any other item not included in this contract Schedule of rates and got done at site of work will be paid according to Haryana PWD schedule of rates subject to premium or discount tendered by the contractor.
31. In this contract schedule of rates only essential portion of item have fully been written but it will deem to cover the entire items as fully described in Haryana PWD schedule of rates 1988 IInd Edition.
32. The Engineer-in-Charges shall be entitled to order work against any item of work shown in this contract schedule of rates here in after called the schedule to any extent and without any limitation where ever may be required in his opinion for the

- purpose of work irrespective of the fact that quantities are omitted altogether in the schedule or if shown more or less than the work ordered to be carried out.
33. The premium should be quoted above or below the ceiling rates of contract schedule of rates and no condition should be given in case any condition is tendered this will be considered as null and void and only the premium or discount quoted by the tenderer shall be accepted in case any tenderer refuses to accept this, his earnest money will be forfeited.
 34. Approximate quantities are given in this contract schedule of rates and may vary at the time of execution of work. The payment will however be made according to the actual work done by the contractor. No extra claim whatsoever will be admissible to the contractor on account of variation alteration or deletion of any item over the quantities depicted in this schedule of quantities.
 35. No condition involving any change of specification shall be accepted.
 36. No claim will be entertained from the contractor in case any omission in description rates and units which might have occurred in any item taken in this schedule while composing this schedule or on account of typing or comparison or over sighting if there will be any mistake the same will be rectifiable at any stage as per Haryana PWD schedule of rates 1988 IInd Edition by the Engineer-in-Charge along with the amendments of the same received from time to time.
 37. The drawing attached with the DNIT are only provisional and simply for the estimation of the quantities. However the final drawing will be got approved from the competent authority before the execution of work.
 38. Doors and windows fitting such as tower bolts, handles, sliding bolt hasp staple etc.:- All doors and windows fittings are to be of classic or equivalent make conforming to specifications as approved by the Engineer-in-charge. These shall be of iron or aluminum as required.
 39. Distemper: - The distemper shall conform to I.S. 427-1965 and subject to approval of Engineer-in-charge.
 40. All the material i.e. coarse aggregate and fine aggregate should be used of approved quality.

CHAPTER NO. 4
SCHEDULE SHOWING (APPROX.) MATERIAL IF SUPPLIED FROM THE NIT,
CONSTRUCTION BRANCH

Schedule showing (approximately) material if supplied from the N.I.T. KKR Construction Branch for works contracted to be executed and the rates at which they are to be charged for

Particulars	Rates at which the material will Be charged to contractor	Place of delivery
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No material will be issued from the NIT, Kurukshetra stores.

CONDITIONS

1. No claim whatsoever on account of delay in procuring the material will be entertained by the N.I.T. KKR
2. No claim will be entertained for damage or loss of material in custody of the contractor due to rains, floods or any other acts of God.
3. All material procured & brought at site will be as per PWD specification/ISI standards.
4. **Cement:** - Only ISI marked 43 grade Ordinary Portland Cement (OPC) will be used.
5. **Steel:** - Fe-500, TMT Steel bars
Note: - The revised premia (w.e.f. 01.02.2009) are based on Fe-500, TMT Steel Bars of the company's TISCO, SAIL, RINL or IISCO.
 - (i). In case steel is to be arranged by the agency & agency is allowed to use Fe-500, TMT steel bars of companies other than above, but ISI marked, the deduction @Rs.5000/- per M.T. will be made.
6. The material will be got tested in the NIT, laboratory. If test facility is not available in NIT, Kurukshetra Laboratory, the same shall be got done from some other Govt., approved/recognized laboratory.
7. The payment for steel work will be made to the contractors/agencies according to standard weight when it is over weight as per test report issued by the N.I.T. Lab., Kurukshetra, but within the permissible limit AND as per actual weight when it is less than the standard weight as per test report issued by the N.I.T. Lab., Kurukshetra, however within the permissible limit.

.....
Contractor

.....
Witness

.....
Engineer-in-charge
For Director N.I.T.KKR

CHAPTER:-5

**Name of work:-Extension of Guest House Building at NIT, KURUKSHETRA
(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-02-2009)**

Sr. No.	HSR No.	Description	Qty.	Unit	
SUB PART-I: INTERNAL CIVIL WORKS (SCHEDULE ITEMS)					
1	6.6	Earth work in excavation in foundation, trenches etc. in all kind of soils, not exceeding 2 mtrs. depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry in 15 cm layers with compaction, including disposal of all surplus soil as directed within a lead of 30 mtrs.	460	100 Cum	
2	6.27	Clearing grass and removal of the rubbish upto distance of 50m outside the periphery of the area cleared.	360	100 sqm	
3		Dismantling brick work, tile masonry or tile lining and tile terracing .			
	8.5 (b)	b) In cement	100	Cum	
4		Dismantling Concrete.			
	8.6(e)	(e) Reinforced cement concrete with cleaning and straightening and cutting of bars if required.	100	Cum	
5		Dismantling roofing			
	8.8(g)	(G) Demolishing mud phaska in tile terracing	80	Cum	
6		Scraping			
	8.32(a)	(a) White wash and colour wash	1000	Sqm	
7	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth (upto 1.5m depth)			
		For Foundation	31	Cum	
8	10.56	Cement concrete 1:4:8 with stone aggregate 20 mm nominal size in first storey upto 4 metres above plinth level.	35	Cum	
9	10.59	Cement concrete 1:2:4 with stone aggregate 20 mm nominal size in first storey upto 4 metres above plinth level.	10	Cum	

10	10.90 + 10.95 (a)	Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestal and approach slabs of bridges etc. excluding steel reinforcement but including centering and shuttering laid in position complete in all respects (for works upto 1.5m below grounds level)	110	Cum	
11		Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work for walls exceeding 20cm thickness (straight and curved) beams, girders, stairs, columns (square or rectangular) battens and lintels etc. excluding steel reinforcement but including centering and shuttering laid in position, complete in all respects.			
a	10.86+ 10.95(a)	-do- (first storey)	80	Cum	
b	10.86+ 10.95 (a)+note(v)(b)	-do- (second storey)	145	Cum	
c	10.86+ 10.95 (a)+note(v)(b)	-do- (third storey)	5	Cum	
12	10.82 + 10.95 (a)	Cement concrete 1:1.5:3 with stone aggregate 20mm nominal size for reinforced concrete work in slab with inclination not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering laid in position complete in all respects.			
a	10.82 + 10.95 (a)+note(v)(b)	-do- (first storey)	50	Cum	
b	10.82 + 10.95 (a)+note(v)(b)	-do- (second storey)	105	Cum	
c	10.82 + 10.95 (a)+note(v)(b)	-do- (third storey)	8	Cum	
13	18.22	Cold twisted deformed (ribbed/tor steel) bars for R.C.C. works where not included in the complete rate of R.C.C. including bending, binding and placing in position complete.	680	Qtl	
14	10.132	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in pavements, roads, taxi tracks and runways, laid to required slope and camber, including consolidation, finishing, and tamping complete.	25	Cum	

15	10.114	Damp proof course 40mm thick of cement concrete 1:2:4 using stone aggregate 20mm nominal size with 2 coats of bitumen 20/30 penetration at 1.65kg per sqm. laid hot and sanded.	30	Sqm	
16	11.2	First class brickwork laid in cement sand mortar 1:6 in foundation and plinth.	53	Cum	
17	11.7	First class brickwork laid in cement sand mortar 1:6 in first storey upto 4 meter above plinth level.			
a		-do- (first storey)	70	Cum	
b	11.7+11.41 (i)	-do- (second storey)	210	Cum	
c	11.7+11.41 (i)	-do- (third storey)	17	Cum	
18	11.9	First class brickwork laid in cement sand mortar 1:4 in first storey upto 4 meter above plinth level.			
a		-do- (first storey)	20	cum	
b	11.9+11.41 (i)+11.42	-do- (second storey)	50	Cum	
c	11.9+11.41 (i)+11.42	-do- (third storey)	7	Cum	
19	11.48 (a)	11.43 cm thick brick wall laid in cement sand mortar 1:4 in superstructure in first storey			
a		-do- (first storey)	80	Sqm	
b	11.48 (a) + note(iv)(a)	-do- (second storey)	530	Sqm	
20	13.13+note	Terracing consisting of tiles 22.86x11.43x3.81cm laid over 87.50mm mud filling on a layer of 25mm mud plaster and another layer of mud mortar for laying the tiles.			
		iiind storey	800	Sqm	
21	13.43	Providing and embedding 100mm dia H.C.I rain water without ears I.S.I. mark pipe in cement mortar during masonry work..			
		100mm diameter pipe	50	Mtr.	
22	13.46 (a)	Extra over rate of item No.13.43 and 13.45 (a) in case lead joints are used instead of cement joints			
		100 mm diameter pipe	125	Each	
23	13.49	Providing & fixing CI plain bends in position with gutter etc.			
	(a)	For 100mm diameter pipe	6	Each	

24	13.5	Top Khurra 0.6 m x 0.6 m for rain water pipe in 25mm thick cement concrete 1:2:4 over 50mm thick cement concrete 1:8:16.	20	Each	
25	14.1-10.26 Based derived rate	Sand filling under floor i/c laying consolidation, compaction & watering etc.	150	Cum	
26	13.64	Cement concrete 1:2:4 gola 10cmx10cm quadrant along junction of roof with parapet wall finished smooth where specially specified.	170	Mtr.	
27		Providing and lying cinder concrete in cement 1:15, 1cement and 15 cinder, on terraced roofs and 1st storey,laid to slope,including consolidating the same.			
	13.66	-do- (second storey)	70	Cum	
28	14.1	Base course of floors consisting of 100mm thick cement concrete 1:8:16 and 100mm sand or stone filling.	300	Sqm	
29		screed of 50mm of thick cement concrete 1:8:16 to be laid below the topping.			
a	14.4	-do- (second storey)	600	Sqm	
b		-do- (third storey)	10	Sqm	
30		conglomerate floor 25mm thick cement concrete topping 1:2:4.			
a		-do- (first storey)	10	Sqm	
b	14.8	-do- (second storey)	15	Sqm	
31	14.3	Floating coat of 1.50mm thick neat cement laid in one operation to the topping.	15	Sqm	
32	15.5	12mm thick cement plaster 1:4 on wall			
a	15.5+note 1	-do- (first storey)	300	Sqm	
b	15.5+note 1	-do- (second storey)	1150	Sqm	
c	15.5+note 1	-do- (third storey)	40	Sqm	
33		15mm thick cement plaster 1:4 on the rough side of singe or half brick			
a	15.10 +note (1)	-do- (first storey)	610	Sqm	
b	15.10 +note (1)	-do- (second storey)	1210	Sqm	
c	15.10 +note (1)	-do- (third storey)	80	Sqm	
34	15.18	Rough cast exterior cement plaster on walls with a mixture of sand and gravel or crushed stone graded from 2.36mm to 12mm nominal size dashed over and including fresh plaster in 2 coats.			
a	15.18 +note 1	-do- (first storey)	860	Sqm	

b	15.18 +note (1)	-do- (second storey)	850	Sqm	
c	15.18 +note (1)	-do- (third storey)	120	Sqm	
35	15.52	10 mm thick cement plaster 1:4 on underside of ceiling			
a	15.52 + Note (1)	-do- (first storey)	350	Sqm	
b	15.52 + Note (1)	-do- (second storey)	600	Sqm	
c	15.52 + Note (1)	-do- (third storey)	40	Sqm	
36		20mm thick cement plaster damp proof course 1:3 with 2 coats of bitumen at 1.65 Kg. per laid hot and sanded:-			
i	15.77 (a)	Vertical			
a		- do - (second storey)	150	Sqm	
ii	15.77 (b)	Horizontal			
a		- do - (second storey)	180	Sqm	
37	17.38 (a)	Teak wood wire gauze door and window shutters without spring housed in chowkets including chocks/cleats, iron hinges and screws etc.			
a		30mm thick	200	Sqm	
38	17.73	Providing and fixing six-levers brass 10cm mortice latch and lock, and a pair of lever handles with necessary screws, etc. complete (Indian make of reputed firm, such as Godrej or equivalent)	21	each	
39	17.82	Supplying and fixing hydraulic door closer I.S.I. mark, with necessary screws, etc. Complete -			
	(c)	I.S.I. designation No.III(size of door 851 mm to 1000 mm	37	Each	
40	17.87	Providing and fixing .50mm thick aluminium sheet i/c cost of necessary srews, etc. complete.	30	Sqm	
41	17.93& 17.93 (C) I & iv	Factory manufacturedsolid flush door shutters.With block board core as per I.S No. 1659-1669 bonded with wate proof typephenol formaldehyde synthetic resin, hotpressed, conforming to I.S 2202 part I and II fixed in position , including iron hinges, screws, chocks/ cleats and stops etc.(excluding the cost of any fitting other than specified above , but including labour for fixing the same position)-			

(C)i		Decorative veneering with vertical grains or cross bands and face veneer on both sides teak facing and edges lipped with commercial hard wood with laminated core:-			
i		25mm thick	70	Sqm	
iv		40 mm thick	140	Sqm	
42	17.94(b)ii	Factory manufactured panelled door shutters, of teak wood, kiln-seasoned, as per I.S specification no.401, with 100mm wide vertical styles, 150mm wide lock rail, 200 mm wide bottom rail and 100mm wide other rails with panels of 12mm thick veneered, particle board, or plywood of BWR grade hot pressed including cost of iron hinges			
a		Panel of decorative plywood, both side teak faced,			
ii		35mm thick	150	Sqm	
43	18.12	Wrought iron and mild steel (using angles, flats, square bars, tees and channels) ladders grills, grating frames, window guard iron doors openable of fixed staircase of parapet or any other type of railing, gates and tree guards etc. including cost of screws and welding rods or bolts and nuts complete fixed in position.	36	Qtl.	
44	18.16	Providing and fixing G.I. sheet 0.80 mm thick garage doors, with 40mm x 40mm x 6mm angle iron frame with diagonal braces, 3mm thick gusset plates at the junctions, hooks at the top and 25 mm dia, pulleys, & T-iron 50 mm x 50mm x 6mm guides at bottom including locking arrangements with handles and pintles, etc. complete.	2	Sqm	
45	18.2	Providing and fixing in position collapsible steel shutters, with vertical channels 20 mm x 10 mm x 2mm and braced with flat iron diagonal 20 mm x 5 mm size, with top and bottom rails of T-iron 40 mm x 40 mm x 6 mm with 38 mm dia steel pulleys, complete with bolts, nuts, locking arrangements, stoppers, handles, etc., complete.	2	Sqm	
46	18.3	S/F glass panes including special metal sash putty of approved make			

	(b)	Glass panes 4mm thick, exceeding 40 sq.dm.area	150	Sqm	
		Pressed steel sheet frames (Chowkats) consisting of 2mm thick steel sheet of the specified section, including iron lugs(hold fasts) iron hinges, conforming to PWD specifications, including bolts for fixing stops, locknotch, provision for receiving tower bolts, and finished with one coat of ready-mixed paint red lead non-setting primer, of approved quality, fixed in position including the frame, and cement concrete 1:3:6 for lugs complete:-			
(a)	18.34 (a)	Door and window frame of size 89 mm x 50mm with 40mm wide single rebate.	210	Mtr.	
(c)	18.34©	Door and window frame of size 127 mm x 50mm with 40 mm wide single rebate.	600	Mtr.	
47	18.35	Providing and fixing M.S.angle and T-iron frames for door, window and ventilator including iron hold fast, butt hinges of I.S.I. mark fixed in position with machine screws and duly welded including all other suitable locking arrangements provided and welded with the frame and making holes and fixing glazing clips in the frame, filing the welds and finished with a coat of red lead non setting primer complete in all respects.	0.2	Quintal	
48	16.2	Applying pink primer or aluminium priming coat on wood work including preparation of surface knotting and stopping etc.	400	Sqm.	
49	16.3	Applying two coats excluding priming coat with synthetic enamel paint in all shades on new woodwork or metallic or plastered or concrete surfaces to give an even shade (with first quality paint)	400	Sqm.	
50	16.9	Applying priming coat with metal primer on new steel or iron work including preparation of surface with first quality paint)	150	Sqm.	

51	16.18	painting two coats e/c primming coat with ready mixed paint for metallic surfaces in all shades on new steel or iron work.to give an even shade (with first quality paint)	150	Sqm.	
52	16.52	preparation of plaster surface for oil bound distemper including sand papering the surface, applying 1 coat of linseed oil and filling with approved quality filler consisting of white led, linseed oil, warnish and chalk mitti including finishing the surface to the required finish complete	4400	Sqm	
53	16.27	Painting two coats with ready- mixed emulsion paint in all shades for interior use on bricks plaster, cement fibre-board etc.	590	Sqm	
54	16.26	Painting two coats with ready- mixed exterior paint in all shades on newly plastered or concrete surface of walls.	1230	Sqm	
55	16.44	Spirit polishing two coats including 2 coats of wood filler on new work.	600	Sqm	
56	24.35	Providing and fixing premoulded bituminous joint filler, for expansion joints, including the cost of sealing compound and primer coat.			
	24.35 (a)	(ii) 12mm wide	1000	Per mtr. per cm depth	
		The rate quoted by the contractor shall be for all heights and levels as per drawings and for all scaffolding work and other connecting operations for below mentioned items.			
1.NS		Providing and fixing in position stainless steel Hand Rail system including mid rails welded built-up section using pipes and connecting plates of stainless steel grade 304 polished to satin finish, of required diameter and thickness including cutting, welding, grinding, bending to required profile and shape, hoisting, buffing, polishing, cutting chases/embedding in RCC/masonry, fixing with stainless steel (grade 304) screws, nuts, bolts rossette covers and washers or stainless steel fasteners to make it rigidly fixed and stable against impact force with			

		necessary bends and terminations and making good the walls / plaster etc. all complete as per drawings and direction of Engineer-in-Charge.			
		The item includes epoxy grouts welding etc. which shall not be measured for purpose of payment. Weight of stainless steel pipes balusters and mid rails, stainless steel plates rosette cover, nut and bolts etc as actually provided shall only be measured in Kg. for payment	500	kg	
2. NS		Providing and fixing Aluminum Anolized sliding bolts (ISI marked) necessary stainless steel and make with nuts and screws etc. complete :			
		250x16 mm	80	No.	
3. NS		Providing and fixing Aluminum Anolized tower bolts of (ISI marked) stainless steel make with necessary screws etc. complete :			
		250x10 mm	100	No.	
		150x10 mm	100	No.	
4. NS		Providing and fixing Aluminum Anolized handles (ISI mark) with necessary screws etc complete.			
		125 mm	200	No	
5. NS		Providing and fixing Aluminum hanging floor door stopper of approval make and quality(ACME/BOLT/HARDWYN) with necessary screws etc complete.			
		Twin rubber stopper.	60	Nos.	
6. NS		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) :			
a		For fixed portion.			

i		Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	200	kg	
b		For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).			
i		Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	200	kg	
7. NS		Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item) :			
		With float glass panes of 5.50 mm thickness	50	sqm	
8. NS		Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.			
		With stainless steel cover plate	2	nos	
9. NS		Providing and fixing mirror polish, machine cut granite flooring at stair case, external concourse entrance steps and internal concourse etc., (sample of granite shall be approved by Engineer incharge) over 20 mm thick base of cement mortar 1:4(1 cement : 4 coarse sand) laid and joints treated with white cement, mixed with matching pigment, epoxy touch ups including rubbing, moulding etc. complete. as per direction of Engineer-in-charge.			
		20 mm thick Granite of any colour and shade as approved by the engineer-in-charge.			

		Any size	100	sqm	
10. NS		Providing and fixing 18 mm thick mirror polished, machine cut granite stone in risers of steps. Skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement :3 coarse sand) and joint treated with white cement slurry mixed with pigment to match the shade of the slab including rubbing, curring etc complete at all levels to the satisfaction of Engineer-in-charge.			
		Granite of any colour and shade as approved by the engineer-in-charge.			
	NS	Any size	15	sqm	
11. NS		Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.(Make as per engineer in-charge.)			
	NS	Size of Tile 60x60 cm	915	sqm	
12. NS		Providing and fixing 18 mm thick mirror polished, machine cut for Kitchen plateforms, vanity counters facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 with joints treated with			
		Granite stone	35	sqm	
13. NS		Extra for providing edge moulding to granite stone counters including machine polishing to edge to give high gloss finish etc.. Complete in all respects	40	Mtr.	
14. NS		Providing and fixing first class plain coloured glazed tiles with border and highliter (of orient/Johnson make) of size 300x450 mm with minimum thickness 5mm in skirting and dado on 12mm thick cement plaster 1:3 (1 cement:3 coarse sand) the back of the tiles to be buttered with gre(as per engineer in-charge)	430	Sqm.	

15. NS		Providing and laying in floor plain coloured matt finish ceramic tiles of orient/Johnson make, size 400mm x 400mm (thickness as per manufacture) without warpage, laid on 20mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including grouting the join as per engineer in-charge	85	Sqm	
16. NS		Providing and fixing 150mm wide sheet covering over expansion joints with rawl plugs and iron screws as per design to match the colour/shade of wall treatment with 3.15mm thick aluminium fluted strips.	25	Metre	
17. NS		Providing, laying & fixing including necessary screws 350mm wide 3.15 thick aluminium sheet bend to shape as per drawing/ instructions to act as metal cradle on expansion joint including embedding in concrete complete in all respects up to the entire satisfaction of the Engineer-in-charge.	25	Metre	
18. NS		Providing Dr. Fixit pidiseal PS 41G (Gun grade), 42P (Pouring grade) or equivalent for horizontal and vertical expansion joint complete in all respects as per manufacturer detail to the satisfaction of EIC on all the floors.	25	Sqm.	
19. NS		Providing and fixing 40mm CP fancying rod for palmets i/c bracket complete with all necessary fittings.as per approved engineer in-charge.	400	mtr.	
20. NS		Providing P.O.P under ceiling i/c cost of P.O.P. scaffolding & labour as satisfaction of Engineer-in-charge.			
a)		Cornish 15cmx15cm	1000	Mtr.	
b)		Moulding 25x25cm as per design under ceiling.	800	Mtr.	
c)		Flower around fan works under ceiling as per approved design.(satisfaction of engineer-in-charge)	60	Mtr.	

**Name of work: - Extension of Guest House Building at NIT, Kurukshetra.
(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-02-2009)**

Sr. No.	HSR No.	Description	Qty.	Unit	
		SUB PART-III: INTERNAL PH SERVICES (SCHEDULE ITEMS)			
1	30.3	Providing and fixing in position best Indian make Anglo Indian water closet suit (as approved by the engineer-in-charge) consisting of:			
	i)	Wash down closet set vitreous china ware (to the approval of the engineer-in-charge) with 'P" or S trap with or without vent as required and suitable joint for closet inlet;			
	ii)	One piece seat and lid in hollow black or white plastic fitted with chromium plated brass hinges and rubber buffers;(to the approval of the engineer-in-charge)			
	iii)	12.5 litres capacity mosquito proof C.I flushing cistern of best Indian make and all other necessary fittings complete as fully described in item no.30.1 above			
	iv)	32mm diameter telescopic 1.25 mm thick galvanized inside and outside steel flush pipe with clips.			
		Complete in all respects including cutting and making good the walls and floors anhd painting of fittings etc.			
		Single colour	20	Each	
2	30.13	Extra over item No. 30.3 to 30.6 for providing and fixing best indian make plastic hygenic seat with lid complete instead of hollow black or white plastic seat and lid.			
	(iii)	Coloured plastic seat other than black or white(solid)	20		
3	30.40	Providing & fixing 25mm thick, marble partitions for different type of urinals.			
	(b)	Vetreous Chinaware partition plate.	2	Each	
4	30.41	P/F in position best Indian make lavatory Suites			
		White			
		(iv) Size 550mmx400mm with one no. tap	20	Each	
5	30.45	Providing and fixing in position best Indian make chromium plated brass 2nd tap for lavatory suite.	20	Each	
4	30.48	P/F in position 32mm diameter G.I.waste pipe embedded in wall	20	Each	

5	30.50	P/F in position best Indian make C.P. brass bottle traps 32mm diameter	20	Each	
6	30.58	Providing and fixing in position best quality stainless steel draining board with iron brackets for building into wall including painting, cutting and making good the walls etc.			
		Size 600 mm x 450 mm	1	Each	
7	30.62	P/F 40mm diameter G.I.waste pipe embedded in wall or upto floor level including cost of union and plumbing joints	18	Each	
8	30.66	P/F in position best Indian make showers with 15mm diameter inlet.			
	C)	C.P brass with revolving joint.	20	Each	
9	30.67	P/F in position best Indian make paper holder fixed into C.P. including cutting & making good the walls etc.			
	(a)	C.P. brass	20	Each	
10	30.68	Providing and fixing in position best Indian make towel rails fixed including cutting and making good the wall etc.			
	(b)	20 mm diameter C.P. brass adjustable			
		(i) 750 mm long	20	Each	
		(ii) 600 mm long	30	Each	
11	30.69	P/F in position glass shelf fixed in with rawl plugs with C.P. brass screws complete including cutting & making good the walls etc.			
	(a)	With C.P. brass bracket and guard rail			
		(i) 600mm x 125m	20	Each	
12	30.70	P/F in position best Indian make soap dish fixed into wall with C.P. brass screws complete in all respects including cutting & making good the walls etc.			
	(a)	C.P. brass			
	(i)	Soap dish large	20	Each	
13	30.71	P/F in position best Indian make bevelled edge 5.5mm thick mirror fixed in position by means of 4 nos. C.P. brass screws and washers complete including cutting and making good the walls etc.			
	(a)	Indian make			
		(ii) 600 mm x 450mm	20	Each	
14	30.73	P/F in position best Indian make coat & hat hooks fixed with C.P. brass screws complete including cutting and making good the walls etc.			
	(a)	C.P. brass			

		(ii) Two way	68	Each	
15	30.74	Providing and fixing in position super quality 65 mm i/d opening CP brass dome type hinged grating weighting about 750 gms. Fixed in cement mortar 1:2 complete in all respects (as required by the Engineer-in-charge).	38	Each	
16	30.75	Providing & fixing in position 15mm i/d C.P. brass bib cocks of best quality (as required by the Engineer-in-charge)			
	(a)	Bib cock long body	70	Each	
	(c)	Bib cocks	38	Each	
17	30.76	P/F in position C.P. brass stop cocks (as approved by Engineer-in-charge)			
	(a)	15mm stop cocks			
		(ii) Concealed stop cocks with flange	140	Each	
18	30.8	Extra over item Nos. 30.1 to 30.4 and 30.6 for providing and fixing 15 litres capacity vitreous China high level cistern complete with internal brass fitting instead of 12.5 litres capacity high level C.I cistern complete(as approved by the engineer-in -charge)			
		Single colour	20	Each	
19	30.83	P/F in position best Indian make C.P. brass inlet connection 15mm with 375mm pipe & CP brass nuts.	120	Each	
20	30.84	P/F in position HCI soil, waste, vent pipes to ISI specification or any other reputed firm including cutting & wastage etc. & cutting holes in walls, roofs or floor etc. and making good the floor & wall but excluding cost of lead jointing.			
	(a)	100mm internal diameter	300	Mtr.	
	(b)	75mm internal diameter	300	Mtr.	
21	30.87	Providing lead caulked joints to HCI pipes & specials conforming to ISI specification of ELC or any other reputed firm including cost of lead yarn, fuel & tools etc.			
	(a)	100mm internal diameter (1.13 kg)	195	Each	
	(b)	75 mm internal diameter (0.91 kg)	300	Each	
22	30.88	Providing and fixing in position MS or Heavy flat iron clamps made out of MS flat not less than 5 mm of the approved design for fixing CI Soil waste vent or anti pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting			
	(a)	For 100 mm internal diameter pipes	120	Each	

	(b)	For 75 mm internal diameter pipes	120	Each	
23	30.89	P/F HCI floor trap ISI marked of the self-cleaning design with C.P. brass hinged grating with or without vent arm & including cement concrete 1:2:4 complete in all respects			
	(b)	With 75mm internal diameter outlet	38	Each	
24	30.90	PROVIDING AND FIXING IN POSITION HCI 50mm INTERNAL DIAMETER OUTLET PLAIN NAHAN TRAP ISI Marked of the self cleaning design with CP BRASS HINGED GRATING WITH FRAME WEIGHING 6.80 KG EACH FIXED complete as fully described in item no. 30.89 above.			
	(b)	75 mm i/d outlet plain Nahani Trap.	38	Each	
25	30.91	P/F in position HCI specials for soil waste vent pipes to ISI specification including cutting holes in walls & making good but excluding cost of lead joints			
	(a)	For 100mm internal diameter pipes			
		(i) heal rest bend	20	Each	
		ii) Double junction with door 100 mm x100x100x100mm.	20	Each	
		(iv) single junction with door 100mm x100mm x100mm	18	Each	
		(vi) Single junction plain 100mmx100mmx100mm	20	Each	
		(xiii) Bend with door	10	Each	
		(xiv) Bend plain	10	Each	
		(xv) Terminal guard	17	Each	
		(xvi) Cowls	20	Each	
		(xxii) Collars	30	Each	
	(b)	For 75mm internal diameter pipes			
		(i) Heal rest bend	20	Each	
		(iv) Single junction with door 75mmx75mmx75mm	18	Each	
		(vi) Single junction plain 75mmx75mmx75mm	19	Each	
		(xiii) Bend with door	17	Each	
		(xiv) Bend plain	2	Each	
		(xv) Terminal guard	17	Each	
		(xvii) Cowls	17	Each	
		(xviii) Collars	57	Each	
26	30.95	Cutting chase in brick wall in cement for embedding G.I. or HCI pipe lines & making good the same			
	(a)	Size 75x75mm	60	Mtr.	

27	30.101	Painting HCl soil waste and vent pipes and fittings with black bitumastic ordinary paint of approved manufacture two coats on new work.			
		(a) 100 mm internal diameter	300	MTR	
		(b) 75 mm internal diameter	300	MTR	
28	30.110	P/F in position automatic brass ball valves in tanks			
	(b)	With plastic ball			
		(iii) 25mm diameter	10	Each	
29	30.114	P/F in position Gully traps fixed in cement concrete 1:4:8 with HCl grating 150x150mm CI cover weighing approximately 7.26 kg & frame clear opening 300 x 300mm and chamber including cost of brick work 1:5 cement concrete 1:8:16 and C.C. 1:2:4 in coping			
	(b)	100mm internal diameter HCl gully traps	19	Each	
30	30.115	Providing and fixing in position best Indian make vitreous china ware channel of size 600 mm x 150 including laying and fixing in cement concrete 1:2:4 complete as required by the Engineer-in-charge.			
	(i)	White	6	Each	
31	28.24	Cutting holes upto 23cm through brick work in cement wall for pipes and making good			
	(a)	11.43cm thickness of walls	40	Each	
	(b)	22.86 cm. thickness of walls	60	Each	
32	28.47	Bailing out water from the trenches for making new connections in fully charged pipelines			
	(a)	Upto 200mm internal diameter	4	Each	
33	29.84	Constructing brick masonry inspection chamber upto 60 mtr.depth in cement mortar 1:5 cement concrete 1:2:4 benching, 12mm thick cement plaster, RCC 1:2:4 slab 100mm thick with with 455x455 mmx455x610mm inside light duty GI inspection chamber cover & frame with 3 coats of black bitumastic paint.			
	(c)	Size 600x900mm inside	20	Each	
34	29.85	Extra for every 0.30 mts. depths of inspection chamber			
	(c)	600mmx900mm	20	Each	
35	6.8	Excavation for pipelines running under pressure in trenches and pits in open areas where disposal of surplus earth is done alongwith the alignment and restoration of unmetalled surface to the original condition			

	(a)	Without timbering and shoring upto 1.5 meters depth	90	100 Cum	
36	6.10	Excavation of trenches in street lanes or in open area for storm sewer, sewers running by gravity & man holes to full depth and removal of surplus soil upto to a lead of 1Km in ordinary soil			
	(a)	For depth of excavation not exceeding 3 mts. below ground level	150	100 Cum	
37	10.39	Cement concrete 1:4:8 with stone aggregate 40mm nominal size in foundation and plinth	20	Cum	
38	10.41	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in foundation and plinth	10	Cum	
39	10.59+ note V(b)	Cement concrete 1:2:4 with stone aggregate 20mm nominal size in first storey upto 4 metres above plinth level			
		-do- (first storey)	3	Cum	
		-do- (second storey)	4	Cum	

SUB PART-IV: INTERNAL PH SERVICES (NON-SCHEDULE ITEMS)					
1		Providing and laying cement concrete 1:2:4 75mm in bed and around C.I soil waste pipe 100mm and 75mm i/d under floor including centering and shuttering where required.			
	(a)	100mm dia	35	Mtr.	
	(b)	75 mm dia	60	Mtr.	
2	NSR	P/F in position C.P. jet connection of EWC complete including C.P. plate for jet & PVC connection for jet point complete in all respects.	20	Each	
3	NSR (based on 30.53)	Providing and fixing in position best quality stainless steel sinks with complete fittings as fully described in item No.30.51 above.			
		(a) 600 mm x 450 mm x 200 mm	2	Each	
4	NSR	Providing, laying, jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement, 1 fine sand) including testing of joints etc. complete.			
		150mm i/d	100	Mtr.	
	(b)	200mm i/d	50	Mtr.	
5	NS	Providing and fixing of G.M. Peat valves heavy patterns with hand wheels ISI marked to GI pipe lines.			
	(a)	25mm i/d	20	Each	
	(b)	40mm i/d	10	Each	
	(c)	80mm i/d	1	Each	
6	NS	Providing, testing and fixing G.I. pipe 'B' class medium duty including cost of specials such as Tee, elbow, bends etc. and threading inside the building			
		15mm i/d	400	Mtr.	
		20mm i/d	250	Mtr.	
		25mm i/d	200	Mtr.	
		40mm i/d	100	Mtr.	
		50mm i/d	100	Mtr.	
		80mm i/d	50	Mtr.	
7	NS	Extra for providing and fixing union coupling to G.I. pipe lines including cost of union complete			
		15mm i/d	40	each	
		20mm i/d	25	each	
		25mm i/d	20	each	
		40mm I/d	10	each	
		50mm I/d	10	each	
		80mm I/d	5	each	

8	NS	Providing and stringing S & S centrifugally cast (spun) iron pipes (Class LA) complete in trenches to the approval of Engineer-in-charge.			
		80mm i/d	50	Mtr.	
9	NS	Supplying and fixing ISI marked sluice valve double flanged with brass spindle complete in all respect to the approval of Engineer-in-charge. 80 mm	2	Each	
10	NS	Const. of sluice valve haudi 1m x 1m x 1m with brick work 1:5 cement sand mortar finished with 12.5mm cement plaster 1:4 including RCC 1:2:4 slab with reinforcement, surface box complete in all respect to the approval of Engineer-in-charge.	2	Each	
11	NS	Providing and fixing in position H.D.P.E. water tanks complete with inlet, outlet, scour and overflow flanges including masonry based underneath as approved by the Engineer-in-charge of different capacity tanks complete in all respect.			
		Capacity upto 2000 litres	20000	Ltrs.	
12	NS	Making sewer connection with the existing sewer line	4	Each	
	Note:-				
	1)	All china ware should be of Cera /Hindustan/ CERA/HINDWARE/ PERRYWARE Make Ist quality			
	2)	All C.P. fittings/fixtue should be of SEIKO/Parko/ make.			
	3)	All fitting should be Unik & G.I. pipe should be TATA / Jindal Hisar.			

ESTIMATE OF ELECT. SERVICES FOR DEVELOPMENT OF GUEST HOUSE BUILDING, NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA					
(BASED ON HSR-1988 & LATEST SANCTIONED PREMIUM W.E.F. 01-02-2009)					
Sr. No.	HSR No	Description	Quantity	Unit	
SUB HEAD-I: INTERNAL ELECTRICAL SERVICES (SCHEDULE ITEMS)					
1	31.36	Wiring in 1.5 sq mm PVC insulated Copper conductor cable in 1.6 mm thick conduit pipe			
	(I)	Fan point			
	(b)	Medium Point	36	Each	
	(c)	Long Point	20	Each	
	(II)	Light Point			
	(a)	Short Point	148	Each	
	(b)	Medium Point	76	Each	
	(c)	Long Point	82	Each	
	(III)	Twin Control light point with 2 way 5 amp. Single pole switch			
	(c)	Long Point	4	Each	
	(VII)	3 pin 5 amp. Plug point including earthing the 3 rd pin etc.			
	(a)	Short Point	76	Each	
	(c)	Long Point	35	Each	
	(VIII)	3 pin 15 amp. Plug point including earthing the 3 rd pin etc. with 4 sq mm size			
	(b)	Medium point	3	Each	
	(c)	Long point	56	Each	
	(VI)	Call bell point including MS Box of Size 180 mm x 100 mm x 60 mm deep for call bell			
	(a)	Short Point	21	Each	
2	31.40	Supply and erection of PVC unsheathed Copper conductor cable single core 1100 volts grade in pipe of suitable size excluding cost and erection of pipe			
	(i)	Cable Size 1.5 sq mm (3/0.81 mm)	1475	Meter	
	(iii)	Cable Size 4.0 Sq mm (Normal Power) (7/0.85 mm)	1200	Meter	
	(iv)	Size 6.0 Sq mm (7/1.05 mm)	2450	Meter	
	(v)	Size 10.0 Sq mm (7/1.35 mm)	320	Meter	
	(vi)	Size 16.0 Sq mm (7/1.70 mm)	952	Meter	

3	31.41	Supply & erection of double door sheet steel enclosure distribution board suitable for MCBs and ELCBs etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect upto to the entire satisfaction of the Engineer-in-charge of the work.			
	(vi)	8-way, TP&N (Horizontal) (8+24)	12	Each	
4	31.16	Supply and erection of blanking sheet in existing distribution board	85	Each	
5	31.17	Supply and erection of miniature circuit breaker/ isolator 240/415 V in the existing distribution board including making necessary connection:-			
	(a)	Miniature Circuit Breakers of 9 K.A. breaking capacity			
	(ii)	6 amp to 32 amp (SP) Havell's/ Standard	131	Each	
	(iii)	40 amp to 63 amp. (TPN) Havell's/ Standard	12	Each	
6	31.42	Supply & erection of double pole/ four pole Residual current circuit breaker (RCCB/ELCB) suitable for operation on 240/415V, 5Hz AC supply installed in existing sheet steel enclosure including making necessary connections and bonding to earth with all labour and material required to complete the job in all respect upto to the entire satisfaction of the Engineer-in-charge of the work.			
	(xiv)	40 A /415V FP ELCB with 100 mA sensitivity	12	Each	
	(xvi)	63 A /415V FP ELCB with 100 mA sensitivity	24	Each	
7	31.21	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required:-			
	(xxii)	Heavy gauge welded conduit pipe 20 mm dia 1.60 mm thickness flushed	636	Meter	
	(xxii)	Heavy gauge welded conduit pipe 25 mm dia 1.60 mm thickness flushed	4811	Meter	

	(xxiii)	Heavy gauge welded conduit pipe 32 mm dia 1.60 mm thickness flushed	50	Meter	
8	31.22	Earthing			
	(i)	Earthing with G.I. earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top, etc.	4	Each	
	(ii)	Extra for using salt & charcoal/coke for pipe earth electrode as required.	4	Each	
	(iii)	Earthing with G.I. earth plate 600 mm x 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required	4	Each	
	(v)	Extra for charcoal or coke and salt for G.I. plate or copper plate earth electrode	4	Each	
	(xi)	Pdg. and fixing 25 mm x 5 mm G.I. Strip in 40 mm dia G.I. pipe from earth electrode as required	30	Meter	
	(xv)	Pdg. and fixing 25 mm x 5 mm GI strip on surface or in recess for connections etc. as required with all labour and material	10	Meter	
	(xvi)	Pdg. and fixing 4.00 mm dia G.I. wire on surface or in recess for loop earthing as required	1256	Meter	
	(vii)	Supplying & Laying 6 SWG G.I Wire 0.5 metre below ground level as conductor earth electrode including thimbles, soldering, etc as required.	10	Meter	
9	31.28	Supply and erection of suitable compression type brass Cable glands for underground Cable:-			
		(ii) 10 Sq mm to 16 Sq mm Cable 2 to 4 Core	32	Each	
		(iv) 70 Sq mm to 95 Sq mm Cable 3 to 3 ½ Core	8	Each	
		(v) 120 Sq. mm to 185 Sq.mm cable 3 to 3 ½ Core	2	Each	

10	31.18 (xxvi)	Erection of hexagonal M.S. box 1.60 mm thick having each side 8 cms, 7.5 cms deep, top covered with M.S. lid by means of screws including 10 mm dia 30 cm long mild steel rod made into suitable suspension hook and erected in R.C.C. slab of erection of fan, the bottom covered with 3 mm thick bakelite sheet with suitable holes, painting etc. complete with all labour and material required to complete the job.	56	Each	
11	31.35 (vii)	Supply and erection of 75 mm x 75 mm x 60 mm deep M.S. box for telephone, Computer and TV System including 2 pin 5 amp. socket including cost of bakelite sheet	93	Each	
12	31.47	Supply & Erection of MS Box of size 200 mm x 150mm x 100 mm deep covered with bakelite sheet including cost & flushed erection of 32 A DP Switch, 15 A Socket and switch with necessary connections complete in all respect upto the entire satisfaction of Engineer-in -charge of the work.	41	Each	
13	NS	Supplying & fixing RJ-11 modular type Telephone sockets outlets in recessed/surface steel conduit etc as required. (For Telephone/Intercom Points)	31	Nos.	
14	NS	Supplying & fixing RJ-45 modular type Computer sockets outlets in recessed/surface steel conduit etc as required. (For Computer Nodes)	35	Nos.	
15	NS	Supplying & fixing tv Coaxial Socket outlets modular type in recessed/surface steel conduit etc as required. (For TV Points)	27	Nos.	
16	NS	Supplying & fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required.	56	Nos.	

SUB HEAD-II : INTERNAL ELECTRICAL SERVICES (NON SCHEDULED ITEMS)					
(MARKET RATES)					
SUBHEAD-"II" (BDB'S)					
1		Supplying, installation, Testing & Commissioning of Cubical type Branch Distribution Boards (BDB) of the following types made out of 14 gauge (2 mm thick) CRCA sheet complete with the accessories i/e. interconnections with suitable copper solid strip connections 100 A & above and with copper wires below, painting etc. and complete with supplying & fixing the following accessories in each type of following boards etc. as required.			
1.1		MDB (LIGHT & POWER) Gorund Floor (Minimum Depth of Panel shall be 500 mm deep)			
(A)		Incoming			
i)		1 No. 300 Amp rating TP Moulded Case Circuit Breakers with neutral link, Front operated handle & Thermal magneticrelease (36 kA) (L+P)			
ii)		1 Set 300 Amp 4 Bars Cu. Bus Bar			
iii)		1 Set LED type Indication lights			
iv)		1 No. Analogue Voltmeter (0-500 V) 96 mm. sq			
v)		1 No. Analogue Ammeter (0-100 A) 96 mm. sq			
vi)		1 Set CTs for Ammeter 300/5 A ratio			
vii)		2 Nos. Selector Switches for Voltmeter & Ammeter			
viii)		3 Nos. 2 A SPMCB			
		Outgoing			
i)		2 Nos. 200 A TP MCCB, 36 KA			
ii)		1 No. 100 A TP MCCB, 25 KA (Spare)			
(B)		Incoming			
		1 No. 100 Amp rating TP Moulded Case Circuit Breakers with neutral link, Front operated handle & Thermal magneticrelease (25 kA) (DG SUPPLY FOR LIGHT)			
ii)		1 No. 100 Amp rating Changeover Switch			

iii)		1 Set 150 Amp 4 Bars Cu. Bus Bar			
iv)		1 Set LED type Indication lights			
v)		1 No. Analogue Voltmeter (0-500 V) 96 mm. sq			
vi)		1 No. Analogue Ammeter (0-100 A) 96 mm. sq			
vii)		1 Set CTs for Ammeter 100/5 A ratio			
viii)		2 Nos. Selector Switches for Voltmeter & Ammeter			
ix)		3 Nos. 2 A SPMCB			
		Outgoing			
i)		4 Nos. 63 A TP MCCB, 25 KA (1 Spare)	1	Set	Market Rate
1.2		BDB (POWER) GROUND FLOOR (Minimum Depth of Panel shall be 300 mm deep)			
		Incoming			
i)		1 No. 200 Amp rating TP MCCB (36 kA)			
ii)		1 Set 250 Amp 4 Bars Cu. Bus Bar			
iii)		1 Set LED type Indication lights			
iv)		1 No. Analogue Voltmeter (0-500 V) 96 mm. sq			
v)		1 No. Analogue Ammeter (0-100 A) 96 mm. sq			
vi)		1 Set CTs for Ammeter 150/5 A ratio			
vii)		2 Nos. Selector Switches for Voltmeter & Ammeter			
viii)		3 Nos. 2 A SPMCB			
		Outgoing			
i)		5 Nos. 63 A TP MCCB, 16 KA (1 Spare)	2	Sets	Market Rate
1.3		BDB (LIGHT) GROUND FLOOR (Minimum Depth of Panel shall be 300 mm deep)			
		Incoming			
i)		1 No. 63 Amp rating TP MCCB (16 kA)			
ii)		1 Set 100 Amp 4 Bars Cu. Bus Bar			
iii)		1 Set LED type Indication lights			
iv)		1 No. Analogue Voltmeter (0-500 V) 96 mm. sq			
v)		1 No. Analogue Ammeter (0-100 A) 96 mm. sq			

vi)		1 Set CTs for Ammeter 100/5 A ratio			
vii)		2 Nos. Selector Switches for Voltmeter & Ammeter			
viii)		3 Nos. 2 A SPMCB			
		Outgoing			
i)		3 Nos. 40 A TP MCCB, 16 KA (1 Spare)	2	Sets	Market Rate
31.26		Supply & erection of underground cables, loose in existing pipe or trenches/ on surface complete with necessary connections etc as required.			
	xxx)	3.5 X 120 Sq. mm (Aluminium Conductor)	20	Mtrs.	HSR
	xxix)	3.5 X 95 Sq. mm (Aluminium Conductor)	105	Mtrs.	HSR
	xxviii)	3.5 X 70 Sq. mm (Aluminium Conductor)	105	Mtrs.	HSR
3		Providing & fixing thermoplastic polycarbonate boxes of size 200 x 160 x 98 mm conforming to IP-65 degree of protection along with 6A MCB and 3 way connector complete etc as required. (FOR SECURITY LIGHTING)	12	NOS.	Market Rate
SUBHEAD - III LIGHTING FIXTURES & FANS					
1		Supplying, Installation, Testing & Commissioning of 1 x 28 watt T-5 Fixture surface/ ceiling mounted, Energy efficient, following T-5 fluorescent tube light fitting, housing made out of CRCA sheet 0.5 mm thick (min.) with electronic ballast and lamp holder duly wired up ready for 230 volt ,single phase,50Hz AC supply, with lamp complete with all accessories etc as required.	70	NOS.	Market Rate
2		Supplying, Installation, Testing & Commissioning of 2 x 28 W Decorative mirror optics ceiling/ surface mounted fluorescent tube light fixture, housing made out of CRCA sheet powder coated with pre anodised aluminium bright reflector, electronic ballast and lamp holder duly wired up ready for 230 volt, single phase, 50Hz AC Supply with lamp complete with all accessories as required.	2	NOS.	Market Rate

3	Supplying, Installation, Testing & Commissioning of 3 x 14 W Decorative type surface/ ceiling mounted, Energy efficient, T-5 fluorescent tube light fitting with specular parabolic reflector with infill made of high purity pre anodised aluminium suitable for following configurations with electronic ballast and lamp holder duly wired up ready for 230 volt ,single phase,50Hz AC Supply with lamp, complete with all accessories as required.	23	NOS.	Market Rate
4	Supplying, Installation, Testing & Commissioning of 1 X 25 W decorative Ceiling Light suitable for 25W Energy Saving Lamp, with built in ballast & lamp complete etc as required.	21	NOS.	Market Rate
5	Supplying, Installation, Testing & Commissioning of 1 X 11 W decorative with end cap & Polycarbonate cover mirror light housing made out of CRCA sheet steel min. 0.5 mm thick powder coated, reflector (wherever required)0.3 mm thick complete with accessories like holder, electronic ballast with lamps etc as required.	33	NOS.	Market Rate
6	Supplying, Installation, Testing & Commissioning of 250 W MH integral flood lighting luminaire made of pressure die cast aluminium housing, Polycarbonate cover pre-anodised aluminium reflector suitable for 250 W MH Lamp with integral control gear comprising of copper ballast, Ignitor, Capacitor of same make as luminaire with lamp complete with all accessories etc as required.	12	NOS.	Market Rate
7	Supplying, Installation, Testing & Commissioning of following Surface/Recessed mounting low glare Down lighter with specular finished reflector integral type control gear suitable for Horizontal Lamp, CRCA sheet steel body with Electronic Ballast duly wired with lamp complete etc as required.			

a)		1 X 18 W (Recess Type)	30	NOS.	Market Rate
b)		1 X 18 W (Surface Type)	49	NOS.	Market Rate
c)		2 X 18 W (Recess Type)	38	NOS.	Market Rate
8		Supplying, Installation, Testing & Commissioning of 2 x 36 W Decorative type surface mounted, Energy efficient, T-5 fluorescent tube light fitting with special aqua louvres pre anodised aluminium suitable for following configurations with electronic ballast and lamp holder duly wired up ready for 230 volt ,single phase,50Hz AC Supply with lamp, complete with all accessories as required.	4	NOS.	Market Rate
9		Supplying, Installation, Testing & Commissioning of following Fancy wall bracket with shade and accessories including connections,complete with Lamp etc as required.			
a)		1 x 18 W Double Swivel Type Fancy Wall Bracket Light (Brass)	12	NOS.	Market Rate
b)		1 x 18 W Cone Type Fancy Wall Bracket Light	32	NOS.	Market Rate
10		Supplying of 1200 mm size ceiling fan complete with double ball bearing, motor, blades, downrod, canopy, capacitor,etc. suitable for operation on 230 V 50 Hz A.C. supply complete as required.	56	NOS.	Market Rate
11		Supplying of 305 mm dia., 900 RPM Exhaust fan heavy duty suitable for single phase 230 V 50 Hz A.C. supply complete with motor, capacitor, louvers/shutters etc. complete as required.	23	NOS.	Market Rate

.....
Contractor

.....
Witness

.....
Engineer-in-charge
For Director N.I.T.KKR

CHAPTER No. 6

SCHEDULE OF ADDITIONAL CONDITIONS

1. Upon completion and before offering the work for acceptance, the contractor shall remove all false work, excavated and useless materials, rubbish temporary building constructed by him and shall leave the site adjacent area in a neat and clean condition to the entire satisfaction of the Engineer-in-charge
2. The Executive Engineer, reserves the option to take away any item of work or any part thereof at any time during the currency of the contract and re-allot it to any other agency with due notice to the contractor without liability of any kind or payment of any compensation..
3. The contractor has to make his own arrangements for water, electricity, cement steel, bitumen bricks, wood and any other material/item of work required directly or indirectly for completion of the work, except the material if any issued by the N.I.T. KKR.
4. No claim shall be entertained on account of increase in price of labour and material due to any cause whatsoever.
5. Security shall be refunded after 12 months from the date of actual completion of work to the satisfaction of Engineer-in-charge i.e. making of final payment, after making all necessary recoveries if any.
6. In case of emergency, the contractor shall be required to pay his labour every day and if this is not done N.I.T. KKR will make the requisite payment and recover the same from the contractor.
7. Actual quantities of completed and accepted work shall only be paid.
8. No pits shall be dug by the contractor near the site of work or within road land/ N.I.T. KKR land for making out earth for use on the works. In case of default, the pits so dug will be filled in by the department at the cost of the contractor plus fourteen percent departmental charges.
9. The rates to be quoted by the contractor shall be inclusive of octroi, terminal tax, royalty and all other taxes and charges. These are for complete work in all respects.
10. The contractor shall not be entitled for any payment on account of work done till he signs his agreement.
11. Nothing extra shall be paid for any lead and lift unless otherwise specified for any material required directly or indirectly and the rates to be given in the tender should include all leads in the contract schedule.
12. The contractor shall be responsible for any/all losses of material, damage done to unfinished work as a result of floods and other acts of God. The N.I.T. KKR will not be responsible for any compensation as a result of such damage or loss to the contractor and the contractor shall be liable to set right such damage at his own cost to the satisfaction of the engineer-in-charge.
13. The royalty, sales tax and other taxes/Cess, if any shall be paid by the contractor direct to the respective department in accordance with the rules and regulation in force from time to time without intervention of the N.I.T. Kurukshetra. The N.I.T. KKR will however deduct any such taxes as directed/imposed by the Central/State Govt. from time to time from the bills/ payments due to the contractors.
14. Amount of work may be increased or decreased and any item omitted and substituted in accordance with the requirements of the N.I.T. departments and no claim on this account shall be entertained.

15. Contractor shall be responsible to provide to the entire satisfaction of the Engineer-in-charge at his own expenses the following amenities for the labour employed by him.
- a. Suitable temporary hutting accommodation.
 - b. Trench latrines, bathing enclosures, platforms separately for men and women and their regular cleanliness.
 - c. Clean drinking water.
- In the event of his failure to provide any or all of the amenities the same shall be provided by the N.I.T. KKR and cost thereof shall be recovered from the contractor. Any dispute regarding above points shall be settled by the Engineer-in-charge and his decision shall be final.
16. The contractor shall be responsible for housing, sanitation and medical treatment of labours employed by him and shall abide by all the rules and regulations made by Govt. in this behalf from time to time.
17. Contractor shall abide by all labour regulations fair wage clause and rules for protection of health and sanitation arrangements for workers employed by the N.I.T. KKR or its contractor's, reference be made to chapter 7, 8 and 9 respectively.
18. (1) The contractor shall be responsible, for loss or damages to any material if issued to him by N.I.T. KKR for any cause whatsoever. In case, the material such as cement, steel or any other commodity issued to the contractor by the Engineer-in-charge for use directly on the aforesaid work is not utilized for the purpose for which it is issued and is otherwise disposed of by him or spoiled or lost or allowed to get deteriorated or used in excess of the quantity actually required to be used as per specification herein stipulated of those fixed by the Engineer-in-charge, the cost of such quantity of that materials shall, without prejudice to other rights and remedies available to N.I.T. KKR, be recoverable from the contractor at double the rate at which it is agreed to be supplied to the contractor.
- (2) The recovery from contractor for the material consumed in excess or in short of the original requirements as per specifications herein stipulated or otherwise fixed by the Engineer-in-charge, other than the variation to be regulated by the preceding clause, shall be dealt with as under: -

A. FOR EXCESS CONSUMPTION OF MATERIALS:

- (i) Up to 5% (Five percent) No action is called for.
- (ii) Above 5% (Five percent) if actual consumption exceeds theoretical consumption by more than 5% (Five percent) recovery shall be made for the excessive of material beyond initial five percent at double the rate at which it is agreed to be supplied to the contractor.

B. FOR SHORT CONSUMPTION OF MATERIALS:

Where the actual consumption of material is short by 5 % or less, no action shall be taken when the work is executed on labour rates or departmentally, where the work is done on through rate basis and actual consumption of cement works out to be less up to 5% than the theoretical consumption, the cement so saved shall be returned in good condition by the contractor to the stores and recovery of cost of (material thus saved shall be made from the contractor at the issue rates) subject to the condition that the use of cement less the prescribed norms will not affect the specifications, quality and strength. It has also to be certified by the J.Es, A.Es/EO and XEN that the work has been carried out strictly in accordance with the relevant specifications. When the consumption of material is short by more than 5% and the work is done on through rate basis, the rates on items shall be reduced or where it is not possible to determine the correct items on which short material has been used, the cost of material used shall be recovered from the contractor at double the issue rate. When the work

is done departmentally or on labour rates and the consumption is short by more than 5%, the Executive Engineer shall bring to the notice of the competent authority all such cases, for suitable action against defaulting N.I.T. KKR officials and contractor as he may deem fit. The N.I.T. KKR reserve the right to take any other deterrent action, which the N.I.T. KKR deems fit against the contractor. The decision of the competent authority in this matter shall be final.

It is also to be determined whether the stability of the structure is affected adversely by short consumption of materials and in cases where it is felt that it is likely to affect the work shall be rejected. The decision of competent authority in this regard shall be final.

19. Should the tenderer modify or withdraw his tender without the written concurrence of the Director/Executive Engineer within 90 (ninety) days from the date of tender, he is liable to be black-listed besides forfeited of earnest money and other penalty envisaged in the tender form.

20. No claim of any kind whatsoever shall be entertained for any and all the losses of damages to the contractor due to the completion of the work getting delayed due to the failure or delay on the part of the N.I.T. KKR under the terms and conditions of the contract.

21. **Apprentice Act:-** The contractor shall comply with the provisions of the Apprentice Act, 1961 and the rules and orders issued there under from time to time. If the contractor fails to do so his failure will be breach of the contract and the N.I.T. KKR Engineer-in-charge may at 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 provision of the Act.

22. If for the execution of the work, the contractor will engage imported labour, he shall immediately inform the local health authority entrusted with the work of eradication of malaria for their (Labourers) inclusion in the surveillance operation and for getting their blood examined from the aforesaid authorities in order to exclude malaria positive.

23. Imported labour means Labour belonging to a state other than Haryana State.

24. All material left at site by the contractor for a period of one month after the completion of work shall become the property of the N.I.T. KKR and contractor shall have no claim whatsoever for such material.

25. The contractor shall supply at his own cost and expenses all labour materials etc. for labour and checking of any portion of the work during construction, whatsoever required by the Engineer-in-charge for his representative and nothing extra shall be paid for services.

26. The contractor shall not remove from the site of work without the written permission of the Engineer-in-charge any material which has been issued to him for use on the work.

27. The contractor shall maintain at site of work full details of specification of the work fixed by the Engineer-in-charge and all approved drawings of the work.

28. Nothing extra shall be paid to the contractor for diversion of water channels, stream if it becomes necessary for the execution and completion of the work.

29. Income tax will be deducted from the bill of the contractor according the section 194-C of the Income Tax 1961 and instructions from time to time. Sales tax and other taxes will be deducted as required by the State Govt.

30. In case of delay in supply of cement, steel or any other material agreed to be supplied by the department as per details in the N.I.T. or failure to supply the required quantity in time for execution of the work, the contractor shall not be paid any compensation from any or resultant effects or losses.

31. The contractor shall employ a duly accredited and experienced resident Engineer as his agent in charge of the Execution of work. Instructions given by the Engineer-in-charge or his authorized representative to the agent shall have the same force as instructions given to the contractor.

32. The contractor will not have any claim in case of delay by the N.I.T. KKR for removal of tree or shifting, raising, removing of telegraph, telephone or electric lines (Overhead or underground) and other structure, if any, which comes in the way of the work.

33. Relation with Public Authorities

The contractor shall comply with all legal orders and directions given from time to time by any local or public authorities and shall payout of his own money, the fees or charges to which he may be liable.

34. Occupation of Additional Lands

In case, when it becomes necessary for the due fulfillment of the contract for the contractor to occupy land outside the N.I.T. KKR limits, the contractor shall make his own arrangements with the landowners and pay such amounts, as may be mutually agreed upon by them.

35. No claim by the contractor for additional payment will be allowed on the ground of any misunderstanding or misapprehension in respect of any such matter or otherwise or on the ground of any allegation or fact that incorrect information was given to him by any person whether in the employment of the N.I.T. KKR or not, or of the failure on his part to obtain correct information nor shall the contractor be relieved from any risk or obligations imposed on or undertaken by him under the contract on any such ground or on the ground that he did not or could not foresee any matter which may in fact, effect or have affected the execution of the work.

36.1 During the absence on work of the Engineer-in-charge he shall be represented by one of his subordinates whose duties are to watch and supervise the works, to test and examine any materials to be used or workmanship to ensure that the works are performed in conformity with the plans, estimates and specifications in all respects and to keep Engineer-in-charge informed of the progress of the works and the manner in which they are done. The Engineer-in-charge may from time to time delegate any of his powers and authorities vested in him to the departmental representative in writing.

36.2 The Institute representative shall have no authority to alter or waive the provisions of plans and estimates and specifications or to relieve the contractor of any of his duties or obligations under the contract. He shall however, have the authority to inform the contractor in writing to replace any materials considered defective and to re-do or rectify any work improperly performed or not according to plans and estimates or specifications in his judgment and the contractor shall comply.

36.3 Failure of the Institute Representative to disapprove any work or materials shall not prejudice the power of the Engineer-in-charge thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof. If the contractor shall be dissatisfied by reason of any decision of the departmental representative, he shall be entitled to refer the matter to the Engineer-in-charge who shall thereupon, confirm or reverse such a decision.

36.4 The Contractor shall give or provide all necessary; constant and whole-time superintendence during the execution of the works and as long thereafter as the Engineer-In-charge may consider necessary by either;

- (i) Personally superintending the work himself
OR
- (ii) Employing a skilled and qualified Resident Engineer thoroughly experienced in the type of work to be executed and fully authorized to receive and execute on behalf of the contractor, orders, instructions or directions of the Engineer-in-charge without delay and to promptly supply such materials, labour, equipments, tools and incidentals as may be required

37.1 The Contractor will be held strictly responsible to the true intent of the specification in regard to quality of materials, workmanship and the diligent execution of the contract.

37.2 All materials and each part of detail of the work shall be subject to all times to inspection by the Engineer-in-charge, departmental representative or other authorised subordinates, who shall be furnished with responsible facilities and assistance by the contractor for ascertaining whether or not the work as performed or the materials used are in accordance with the requirements and intent of the plan and specifications:

37.3 The contractor shall furnish written information to the Engineer-in-charge stating the original source of supply and dates of manufactures of all materials manufactured away from the actual site of work. This information shall be furnished at least two weeks (or such other period as may be detected by the Engineer-in-charge) in advance of the incorporation of any such material in the works.

*37.4 The contractor shall also inform the Engineer-in-charge in writing when any portion is ready for inspection giving him sufficient notice to enable him to inspect the same without retarding the further progress of the work.

*37.5 Any work done or materials used without supervision or inspection by the Engineer-in-charge or the departmental representative is liable to be ordered to be removed and replaced at the contractor's expenses.

*37.6 If so directed, the contractor shall at any time before the acceptance of the work, remove or uncover such portion of the finished work as may be directed. After examination, the contractor shall restore the said portion of the work to the standards required by the specifications. The work shall not be considered to have been completed in accordance with the terms of the contract until the Engineer-in-charge shall have certified in writing that it has' been completed to his satisfaction. No approval of materials or workmanship or approval of part of the work during the progress of execution shall bind the Engineer in any way or affect his power to reject the work when alleged to be completed or to suspend the issue of his certificate of completion until such. alterations or modifications or reconstructions have been effected as shall enable him to certify that the work has been completed to his satisfaction.

37.7 The inspection of the work or materials shall not relieve the contractor of any of his obligations to fulfill terms of the contract as herein prescribed by the plans and specifications.

*37.8 Failure to reject any defective work or material will not in any way prevent later rejection when such defect is discovered or obligate the department to make final acceptance.

*38.1 Unless otherwise provided in the contract documents materials such as rubble, gravel, sand, murrum Kankar, earth, soil etc, obtained from excavation and materials obtained by dismantling any existing structures shall remain the property of the N.I.T. KKR. When deemed fit, the Executive Engineer-in-charge may 'with the approval of competent authority permit the use of such materials on the work in substitution of materials which the contractor would have otherwise provided subject to the condition that a suitable deduction shall be made in the rate of the items in which such materials are used.

*38.2 Any trees, branches, bushes, crops etc. which may be required to be cut during the execution of the work shall be handed over to the N.I.T. KKR or disposed of as directed.

*39. The contractor shall be required to keep at the site of the work the following Technical staff as under: -

When a work costing Rs.2
Crore and above up to Rs. 5
Crore is under execution

One qualified Engineer
(Diploma Holder) with at
least 5 years experience.

When a work costing more
than Rs.5 Crore is under
execution.

One qualified Engineer
(Degree Holder) with at
least 5 years experience
with suitable supplementary
staff according to the
requirement of work.

*40. N.I.T. KKR shall not be responsible for any depreciation in the value of securities, nor for any loss of interest thereon.

*41. Canvassing in connection with a tender in any form renders the tender liable to rejection.

*42. In case of any discrepancy between description in words and figures quoted by a Tenderer, the description in words shall prevail.

*43. If there are varying or conflicting provisions made in any document forming part of the contract the accepting authority shall be the deciding authority with regard to the intention of the document.

44. If, however, the contractor seeks some assistance from the N.I.T. KKR in connection with arranging water/electric connection from the public utility service authorities, for the purposes of N.I.T. KKR work such assistance only to the extent of writing a letter from the Engineer-in-charge to the authority concerned for giving such connection may be provided. All charges etc. shall be borne by the contractor.

The N.I.T. KKR may, on application of the contractor, issue essentiality certificate for diesel/petrol (if it becomes a controlled commodity) required for carriage of materials to be used on the work, but the N.I.T. KKR will not undertake any responsibility for the arrangement of such petrol/diesel. Non-availability of any such material will not absolve the contractor of his contractual obligation.

45. The N.I.T. KKR reserves the right to cancel the contract ex-party if the contractor fails to abide by any of the terms and conditions of the contract.
46. In case of cancellation of the contract the N.I.T. KKR shall continue the work at the risk and cost of the contractor.
47. The arbitration comes into existence only if the Para 45 and/or 46 is disputed.
48. A tenderer shall be deemed to have full knowledge of all the relevant documents, samples site etc., whether he inspects them or not.
49. The contractor shall comply with the provision of apprentice act, 1961, and the rules and orders issued there under from time to time and if he fails to do so his failure will be breach of contract. The Director may at his discretion cancel the contract. The contractor shall also be liable for any pecuniary liabilities arising on account of violation of the provision of Act, by him.
50. Where so ever specific makes have been mentioned in the schedule of work, these will supercede as mentioned else where.
51. Analysis of rates for non schedule items i.e. items which are not provided in the schedule of notice tender/schedule of rate will be based on the rates of material and wages of labour provided in the HSR-1988 with an admissible contractor's profit and overhead charge plus tendered premium abetment. In case such rates of material and wages of labour involved in the non-schedule items are not provided in the HSR, the same will be payable as per actual lowest market rates and as per admissible contractor's profit and overhead charges. For such items of material, the contractor will be required to produce original quotation/vouchers, which will be subject to verification, by the Engineer-in-charge. If deemed necessary, the rate of non-scheduled items will be approved by the competent authority and his decision will be binding to the contractor.
52. The rates of bus bars included the cost of all materials labour required to complete the job in all respects including thimbles etc. of the same material as that of bars. The support of bars will be made of best porcelain. No extra payment in this regard will be given.
53. Bakelite sheet of Hylam/Sunlam/Formica make only will be used at site.
54. No road cut charges shall be paid.
55. The contractor will be responsible for getting inspected/passed the electrical sub-station from the Chief Electrical Inspector Haryana Chandigarh and he will also make necessary payments of fees for this purpose to that office. The NIT Kurukshetra will, however, render necessary assistance to the contractor in this regard.
56. The tenderer must be a A-Class Electrical license holder of Chief Electrical Inspector of Haryana for execution 11KV works and is specialized for doing the work and he should be enlisted as class IV and above class electrical contractor with the department.

57. All MCCBs upto 220 amp. Will have 25 K.A. minimum breaking capacity and above 220 amp. MCCBs 50 K.A. minimum breaking capacity. All MCCBs will have electronic and rotary control duly interlocked.
58. Before fabrication of the panel boards, the schematic drawing shall have to be got approved from the Engineer-in-charge before proceeding further.
59. Colour coding: Following colour coding will be followed in wiring:
- | | | |
|---------|---|--------------------------------------|
| Phase | - | Red/Yellow/Blue (three phase wiring) |
| Live | - | Red (single phase wiring) |
| Neutral | - | Black |
| Earth | - | Green |
60. The contractor will be responsible for co-ordinating the activities of all works and will ensure progress of works as per laid down programme.
61. The contractor will submit completion plan separately in triplicate on blue print with one set on tracing cloth within 30 days of the completion of the work.
62. The contractor will submit completion certificate alongwith test reports after completion of work.
63. The copper conductor wires should confirm to IS-694 as amended upto date only standard FRLS copper conductor wires of desired make will be used (as per list attached of approved makes.)
64. Only ISI marked (if otherwise mentioned) wires, switches, sockets outlets, ceiling rose, lamp holders and conduit accessories will be used. These will be got approved from the Engineer-in-charge before use at site (as per list attached of approved makes).
65. To facilitate drawing of wires 16/18 SWG G.I. fish wire will be provided alongwith laying of recessed conduit for which no extra payment will be made to contractor.
66. Conduit and termination to SDB and main board adapter box i/c connection wires to MCBs inter connection between SDB and main board etc. will be included in the tendered rates and nothing extra will be paid for the same.
67. The contractor will submit the test reports of the material and wiring as required by the Engineer-in-charge time to time from the authorised agency/license holder.
68. Meb's & enclosure etc. will be installed of one make only.
69. The rates mentioned in the NIT are for complete item including cost of accessories material, labour, tool's plant water electricity bill etc. Unless otherwise specified, no extra payment for the same will be made.

70. The contractor shall provide suitable measuring arrangement at site for checking & measuring for various items.
71. The tenderer must either he himself be holder of licence of 'A' Class Electrical contractor granted under rule 45 of the Indian Electricity Rules 1956 by chief Electrical Inspector Haryana, is enlisted with electrical wing of the deptt. in appropriate category and is specialist for doing these type of work or he must sublet the electric work to a sub-contractor possessing the above qualifications. The subletting will be done with the written approval of the Director NIT, Kurukshetra.
72. The contractor will install all the material from the list of approved make in the NIT, if any make in not available the material should be approved from the NIT, Kurukshetra.
73. The contractor must employ the following staff while carrying out electrical work
- | | | | |
|-------|---|---|--|
| (i) | When work costing more then 50,000/- to
Rs. 2.00 Lacs is under execution | : | One qualified Elect. J. E. |
| (ii) | From 2.00 Lacs to 5.00 Lacs | : | One qualified Elect. J. E.
With Five Years experience. |
| (iii) | Above 5.00 Lacs | : | One qualified Elect. Degree
Holder with Five Years experience |
74. The fan boxes should be 16 gauge and anodized for which no extra payment will be made.
75. The contractor must ensure preparation and submission of the pipe diagram, wiring diagram, key diagram and cable diagram etc. as required vide PWD specification Chapter No.31.6.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.KKR

CHAPTER No.7
N.I.T. KKR Construction Branch
Contractor's Labour Regulations

1. **Short Title** :- These shall be the same as for Haryana P.W.D. Contractor's Labour Regulations as detailed below. The words P.W.D. and Haryana Government shall be substituted by N.I.T. KKR Construction Branch and National Institute of Technology Kurukshetra authority respectively.

2. **Definitions** :- In the regulations, unless otherwise expressed or indicated, the following words and expressions shall have meaning hereby assigned to them respectively that is to say:-

- (1) "Labour" means workers employed by N.I.T. KKR Construction Branch contractor directly, or indirectly through a sub-contractor or other person or by an agents on his behalf
- (2) "Fair Wages" means wages whether for time or piece work notified from time to time for the area and where such wages have not been so notified, the wages prescribed by the Haryana Public Works Department for the district in which the work is done.
- (3) "Contractor" shall include every person whether a sub-contractor or agent, employing labour on the work taken on contract.
- (4) "Wages" shall have the same meaning as defined in the payment of wages Act, 1936 and includes time and piece rate wages.

3. **Display of notices, regarding wages, etc.**:- The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain, in a clean and legible condition in conspicuous places on the work notice in English and in the local Indian language spoken by the majority of the workers giving the fair wages notified or prescribed by the Haryana Works Department and the hours of work for which such wages are earned.

4. Payments of wages:

- (i) Wages due to every worker shall be paid to him direct.
- (ii) All wages shall be paid in current coin or currency or in both.

5. Fixation of wages period:

- (1) The contractor shall fix wage periods in respect of which the wages shall be payable.
- (2) No wage period shall exceed one month.
- (3) Wages of every workman employed on the contract shall be paid before expiry of ten days after the last day of the wage period in respect of which the wages are payable.
- (4) When the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the day succeeding the one on which employment is terminated.
- (5) All payments of wages shall be made on a working day.

6. Wage Book and Wages Slips etc.

- (1) The contractor shall maintain a Wage Book of each worker in such form as may be convenient but the same shall include the following particulars:
 - (a) Rate of daily or monthly wages.
 - (b) Name of work on which employed.

- (c) Total Number of days worked during each wage period.
 - (d) Total amount payable for the work during each wages period.
 - (e) All deductions made from the wages with an indication in each case of the ground for which the deduction is made.
 - (f) Wages actually paid for each wage period.
- (2) The contractor shall also maintain a Wage Slip for each worker employed on the work.
 - (3) The authority competent to accept the contract may grant an exemption from the maintenance of Wage Book and Wage Slips to a contractor who, in his option, may not directly or indirectly employ more than 100 persons on the work.

7. Fines and deductions which may be made from wages:

- (1) The wages of a worker shall be paid to him without any deduction of any kind except the following :
 - (a) Fines.
 - (b) Deductions for absence from duty, i.e. from the place or places where by the terms of his employment he is required to work. The amount of deductions shall be proportionate to the period for which he was absent.
 - (c) Deductions for damage to or loss of goods expressly entrusted to the employed person for custody or for loss of money for which he is required to account, where such damage or loss is directly attributable to his neglect or default.
 - (d) Any other deductions which the N.I.T. KKR may allow from time to time.
- (2) No fine shall be imposed on a worker and no deductions for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fine or deductions.
- (3) The total amount of fines which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the wage payable to him in respect of that wage period.
- (4) No fine imposed on any worker shall be recoverable from him by installments or after the expiry of 60 days from the date on which it was imposed.

8. Register of fine etc:

- (1) The contractor shall maintain a register of fines and of all deductions for damage or loss. Such register shall mention the reason for which fine was imposed or deduction for damage or loss was made.
- (2) The contractor shall maintain a list in English and in the local Indian, language, clearly defining acts and commission for which penalty of fine can be imposed. He shall display such list and maintain it in clean and legible conditions in conspicuous places on the work.

9. Preservation of Books:- The wage book, the wage slips and the register of fine deduction, required to be maintained under these regulations shall be preserved for 12 months after the date of the last entry made in them.

10. Powers of Labour Welfare Officers to make investigations or enquiry :-

The labour Welfare officer or any other person authorized by the Haryana Government on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper

observance of the wage clause and provisions of these regulations. He shall investigate into any complaint regarding the default made by the contractor or sub contractor in regard to such provision.

11. Report of Labour Welfare:-

The labour Welfare Officer or any other person authorized aforesaid shall submit a report of the result of his investigations or enquiry to the Executive Engineer concerned indicating the extent, if any, to which the default has been committed and the amount of fine recoverable in respect of the acts to acts of commission and omission of the labourer with a note that necessary deduction from the contractor's bill be made and the wages and other dues be paid to the labour concerned.

12. Appeal Against the decision of Labour Welfare Officer:-

Any person aggrieved by the decision and recommendation of the Labour Welfare Officer or other person so authorized may appeal against such decision to the Labour Commissioner, but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

12A. No party shall be allowed to be represented by a lawyer during any investigation, enquiry, appeal or any other proceedings under these regulations.

13. Inspection of register: - I

The contractor shall allow inspection of the Wage Book, Wage Slips to any of his workers or to his agent at a convenient time and place after due notice is received, or to the Labour Welfare Officer or any other person authorized by the Haryana Government in his behalf.

14. Submission of returns:-

The contractor shall submit periodical returns, as may be specified from time to time.

15. Amendment:-

The Haryana Government may, from time to time, add or amend these regulations and on any question as to the application interpretation or effect of these regulations, the decision of the Labour Commissioner, Haryana Government, or any other person authorized by the Haryana Government in that behalf shall be final.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.KKR

CHAPTER No.8 FAIRWAGE CLAUSE

(a) The contractor shall pay not less than the fair wage to labourers engaged by him on the work.

Explanation : - 'Fair Wage' means wage whether for time or piece of work notified from time to time for the area and where such wages have not been so notified, the wages prescribed by the P.W.D. B&R Branch Haryana, for the district in which work is done.

(b) The contractor shall, notwithstanding the provisions of any agreement to the contrary, cause to be paid fair wage to labourers indirectly engaged on the work including any labour engaged by his sub-contractors in connection with the said work, as if the labourers had been directly employed by him.

(c) In respect of all labour directly or indirectly employed on the work for the performance of the contractor's part of his agreement the contractor shall comply with or cause to be complied with the Haryana P.W.D. Contractor's Labour Regulations made by the Government from time to time in regard to payment of wages, wage period deductions from wages, recovery of wages not paid and deductions unauthorizedly made, maintenance of wage register, wage book, wage slip, publication of wages and other terms of employment inspection and submission periodical returns and all other matters of such like nature.

(d) The Executive Engineer or the Asst. Engineer 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 the condition of the contract for the benefit of the workers, non-payment of wages which are not justified by the terms of the contract or for non-observance of the regulations referred to in clause (c) above.

(e) Vis-a-vis, the N.I.T. KKR Construction Branch, contractor shall be primarily liable for all payments to be made under and for the observance of the regulations, aforesaid without prejudice to his right to claim indemnity from his sub-contractor.

(f) The regulations shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.KKR

CHAPTER No.9

RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY THE CONTRACTORS OF NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

The contractor shall at his own expense provide or arrange for the provision of footwears for any labour doing cement mixing work (the contractor has undertaken to execute under his contract) to the satisfaction of the Engineer-in-charge and on his failure to do so, N.I.T. KKR shall be entitled to provide the same and recover the cost thereof from the contractor.

The contractor shall submit by the 4th and 19th of every month to the Executive Engineer a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively (i) the number of labourers employed by him on the work (ii) their work hours (iii) the wages paid to them (iv) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (v) the number of female workers who have been allowed Maternity benefit according to clause 19-F, and the amount paid to them failing which the contractor shall be liable to pay to N.I.T. KKR a sum not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Executive Engineer shall be final deducting from any bill due to the contractor the amount levied as fine.

Maternity benefit for female workers employed by the contractor, leave and pay during leave shall be regulated as follows:

1. **LEAVE:** (i) In case of delivery/ Maternity leave not exceeding 8 weeks (4 weeks up to and including the day of delivery and 4 weeks following that day)

(ii) In case of miscarriage: up to 3 weeks from the date of miscarriage.

2. **PAY:** In case of delivery, leave pay during Maternity leave will be at the rate of the women's average daily earning calculated on the total wages earned on the day when full time work was done during a period of 3 months immediately preceding the date of which she gives notice that she expects to be confined, or at the rate of Rs. 12/- per day whichever is greater.

(ii) In case of miscarriage:- Leave pay at the rate of average daily earnings calculated on the total wages earned on the days when full timework was done during a period of 3 months immediately preceding the date of such miscarriage.

(iii) Conditions for the grant of Maternity leave:- No Maternity leave benefit shall be admissible to a woman unless she produces a certificate of confinement and expected delivery within 4 weeks preceding the date on which she proceeds on leave.

FIRST AID: (a) At every work place, there shall be maintained in readily accessible Place first aid appliances including an adequate supply of sterilized dressing and cotton wools. The appliances shall be kept in good order and in large work places. It shall be placed under the charge of a responsible person who shall be readily available during the working hours.

(b) At large work places, where hospital facilities are not available within easy distance of the work, first aid post shall be established and be run by a trained compounder.

(c) Where large work places are remote from regular hospital an indoor ward shall be provided with one bed for every 250 employees.

(d) Where large work places are situated in cities, towns or in their suburbs and no beds are considered necessary owing to the proximity of city or town hospitals a suitable transport shall be provided to facilitate removal of urgent cases to these hospitals.

At other work places some conveyance such as car shall be kept readily available to take injured or persons suddenly taken seriously ill, to the nearest hospital.

SCALES OF ACCOMMODATION IN LATRINES AND URINALS

There shall be provided within the premises of every work place latrines and urinals in an accessible place and the accommodation separately for each of them shall not be less than the following scales:-

	No. of sheds
(a) Where the numbers of persons does not exceed 50	2
(b) Where the numbers of persons exceeding 50 but does not exceed 100.	3
(c) For every additional 100	3 per 100

In particular cases the Executive Engineer shall have the power vary the scale where necessary

LATRINES AND URINALS FOR WOMEN

If women are employed, separate latrines and urinals screened from these for men and marked in vernacular in conspicuous letters "FOR WOMEN ONLY" shall be provided on the scale laid in rules. Similarly, those for men shall be marked "FOR MEN ONLY", A poster showing the figures of a man and a woman shall also be exhibited at the entrance of latrine for each sex. There shall be adequate supply of water close to the latrines.

LATRINE AND URINALS

Except in work places provided with flush latrines concerned with water borne sewerage system all latrines shall be provided with receptacles or dry earth system which shall be in working order and kept in a strictly sanitary conditions. The receptacles shall be tarred inside and outside at least once a year.

The inside wall shall be constructed of masonry or some suitable heat resisting non-absorbent material and shall be cement washed inside and outside at least once a year. The dates of cement shall be noted in register maintained for this purpose and kept available for inspection.

DISPOSAL OF EXCRETA

Unless otherwise arranged for by the local sanitary authority arrangements for proper disposal and a sanitary of excreta by incineration at the work place shall be made by means of a suitable incineration approved by the Asstt. Director of Public Health or Municipal Medical Officer of Health as the case may be in whose jurisdiction the work place is situated, alternately excreta may be disposed of by putting a layer of night soil at the bottom of pucca tank prepared for the purpose and covering it with 9 inches layers of earth for a fortnight when it will turn into a manure.

CRECHE

At every workplace there shall be provided free of cost two suitable sheds-one main and the other for the use of labour. The height of the shelter shall not be less than eleven feet from the floor level to the lowest part of the roof.

PROVISION OF SHELTER DURING REST

At every work place at which 50 or more women workers are ordinarily employed there shall be provided two huts for use of children under the age of six years belonging to such women. One hut shall be used for infants "Games and to play" and the other as their bedrooms. The hut shall not be constructed on a lower standard than the following:

- (i) Thatched roofs.

- (ii) Mud floors and walls.
- (iii) Plant spread over mud floor and covered with matings.

The huts are provided with suitable and sufficient opening for light and ventilations. There shall be adequate provision of sweepers to keep the place clean. There shall be two days in attendance. Sanitary utensils shall be provided to the satisfaction of Health Officer of the area concerned. The use of the hut shall be restricted to children, their attendants and mothers of the children.

CANTEEN

A cooked food canteen on a moderate scale shall be provided for the benefit of workers wherever it is considered expedient.

GENERAL RULES AS TO SCAFFOLDS:

- (i) Suitable scaffolds shall be provided for workmen for all works that cannot be safely done from a ladder or by other means.
- (ii) A scaffolds shall not be constructed, taken down or substantially altered except.
 - (a) Under the supervision of a competent and responsible person, and
 - (b) as far as possible by competent workers possessing experience in this kind of work,
 - (c) all scaffolds and appliances connected therewith and all ladder shall be:-
 - (1) of sound material;
 - (2) be of adequate strength having regard to the loads and strains to which they will be subjected to and
 - (3) be maintained in proper condition.
 - (4) Scaffolds, shall not be overloaded and so far as practicable, the load shall be evenly distributed.
 - (5) Scaffolds shall be so constructed that no part thereof can be displaced in on normal use.
 - (6) Before installing, lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.
 - (7) Scaffolds shall be periodically inspected by the competent person.
 - (8) Before allowing a scaffold to be used by the workmen every care shall be taken to see whether the scaffolds have been erected by his workmen or not and steps taken to ensure that it complies fully with the requirements of the articles.
- (9) Working platforms gangways and stairways shall: -
 - (a) be so constructed that no part of the road is covered.
 - (b) be so constructed and maintained, having regard to the prevailing condition as to reduce as far as practicable.
 - (c) be kept free from any unnecessary obstructions.
 - (d) in case of working platforms gangways place and stairways at a height exceeding that to be prescribed by a national laws and regulations :-
 - (i) every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
 - (ii) every working platforms and every gangway shall have adequate width and
 - (iii) every working platform gangway working place and stairway shall be suitably fenced.

Every opening in the floor of a building or in working platforms shall except for the time and to the extent required to the access of persons or the transport or shifting of material be provided with suitable means to prevent the fall of persons or materials.

When persons are employed on a roof where there is a danger of falling from a height exceeding that to be prescribed by national laws or regulations, suitable precautions shall be taken to prevent fall of persons or materials.

Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.

- (1) Soft means of access shall be provided to all working platforms and other working places.
- (2) Every place where work is carried on the means of approach thereto shall be adequately lighted.
- (3) Every ladder shall be surely fixed of such length as to provide secure hand hold and foot at every position at which it is used.
- (4) Adequate precautions shall be taken to prevent danger from electrical equipment.
- (5) No materials on the site shall be stacked or placed as to cause danger to any person.

GENERAL RULES AS TO SAFETY EQUIPMENT AND FIRST AID

- (1) All necessary personal safety equipment shall be kept available for use of the persons employed on the site and be maintained in condition suitable for immediate use.
- (2) The worker shall be required to use the equipment thus provided and the employer shall take adequate steps to ensure proper use of the equipment by those concerned.

Adequate provision shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

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Contractor

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Witness

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Engineer-in-charge
For Director N.I.T.KKR