

GOVERNMENT OF HARYANA
PUBLIC WORKS DEPARTMENT (B&R)
OFFICE OF THE EXECUTIVE ENGINEER
PROVINCIAL DIVISION NO.2
P.W.D. B&R BR., ROHTAK

DETAILED NOTICE INVITING TENDER

Name of work	Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District
Estimated cost	Rs.423.34 Lacs
Time Limit	18 (Eighteen) Months
Earnest Money	From Society / Contractor: Rs.423340/- / Rs.846680/-

INDEX

Sr. No.	Name of Contents	Page No.
	SECTION-1	
i	Press Notice	3
ii	Detailed Notice Inviting Tender	4-8
ii	Conditions of E-Tendering	9-12
	SECTION-2	
i	Instructions to Bidders	13-14
ii	Eligibility Criteria for Post-Qualification	15-18
	SECTION-3	
	General Rules and Directions	19-20
	SECTION-4	
i	Conditions of Contract	21-33
ii	Additional Conditions of Contract	34-43
	SECTION-5	
	Schedule of materials	44
	SECTION-6	
i	Explanatory Notes	45-47
ii	Technical Conditions of EI Work	48-51
iii	Technical conditions for PH Items	52
	SECTION-7	
i	Contractor's Labour Regulations	53-55
ii	Fair Wage Clauses	56
iii	Rules for protection of Health & Sanitary arrangement for Workers	57-60
	SECTION-8	
	Drawings	61
	SECTION-9	
	Schedule of Bill of Quantities	62
	i) Civil Work	64-78
	ii) EI Work	79-84
	iii) PH. Work	85-92

SECTION-1 (i)

PRESS NOTICE

HARYANA PWD(B&R)

Notice Inviting Tenders

Name of Work: **Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District**

Estimated Cost: **Rs.423.34 lacs.**

Earnest Money: (i) From L&C Societies/ Contractors

Rs.423340/-/ Rs. 846680/-

Tenders to be received till: **3.00 PM on dated**

The tenders will be received only through E-tendering for further details visit website <http://haryanapmgsy.etenders.in> or www.haryanapwd-bandr.org

Executive Engineer,
<Division> Rohtak
(Phone :01262-251879)

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SECTION-1 (ii)**DEATIL NOTICE INVITING TENDER**

1. Executive Engineer, Provincial Division No.2, PWD B&R Branch Rohtak on behalf of Governor of Haryana invites online percentage rate tenders (E-tenders) from approved and eligible Bidders. Eligible bidders are, bidders registered with Haryana Govt., other State Govt., Govt. of India and other Central & State Govt. undertakings subject to the satisfaction of the qualification criteria.

Sr No	Name of work	Estimated Cost (Rs. in Lacs)	Earnest Money Societies/ Contractors	Time Limit
1	2	3	4	5
1	Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District	Rs.423.34 Lacs	From L&C Societies Rs.423340/- From Contractors Rs.846680/-	18 Months

- 1 Bidding Documents can be downloaded online from the Portal <http://haryanapmgsy.etenders.in> by the Societies / Contractors registered on the Portal.
- 2 As the Bids that are to be submitted online are required to be encrypted and digitally signed, the Bidders are advised to obtain the same at the earliest. For obtaining Digital Certificate, the Bidders may contact the representative of Next Tenders, the Service Providers of Electronic Tendering System.

3 Key Dates:-

Seq No	HaryanaPMGSY Stage	Contractor Stage	Start Date & Time	Expiry Date & Time
1	Release of Tender	-	22-04-2011 10:00	26-04-2011 17:00
2	-	Download Tender Document	27-04-2011 10:01	15-05-2011 14:00
3	-	Online Bid Prepration & Hash Submission	27-04-2011 10:01	15-05-2011 14:00
4	Technical and Financial Lock	-	15-05-2011 14:01	15-05-2011 17:00
5	-	Re-encryption of Online Bids	15-05-2011 17:01	17-05-2011 17:00
6	Open EMD & Technical/PQ bid	-	18-05-2011 10:01	20-05-2011 17:00
7	Technical Evaluation	-	18-05-2011 10:01	20-05-2011 17:00
8	Open Financial / Price-Bid	-	18-05-2011 10:01	20-05-2011 17:00

- 4 The Bidders can download the bidding documents from the Portal <http://haryanapmgsy.etenders.in> Tender Documents Fees has to be paid online during the Bid Preparation and Hash Submission stage and Earnest Money Deposit has to be submitted in a separate sealed EMD envelope in form of Bank Draft in favour of the Executive Engineer, Provincial Division No.2 PWD B&R Br. Rohtak. Desirous Contractors shall have to pay the Tender Document Fees mentioned against the work at the time of Bid Preparation and Hash Submission stage. The EMD envelop has to reach in the

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office of Executive Engineer, Provincial Division No.2 PWD B&R Br. Rohtak on or before **17.05.2011** - 17:00 Hrs. However, as the details of the EMD are required to be filled at the time of Bid Preparation and Hash Submission stage, the Bidders are required to keep the EMD ready appropriately.

5 The tender shall be submitted by the tenderer in the following three separate envelopes online:

- | | | |
|-----------------------------------|---|----------------|
| 1. Earnest Money | - | Envelope 'ED' |
| 2. N.I.T. and Technical Bid | - | Envelope 'T I' |
| 3. Tender in Form – A (Price Bid) | - | Envelope 'C I' |

Note: Online Bidders are required to submit the physical EMD in a physical EMD Envelop – 'ED' and any other document related to Technical Bid which cannot be submitted online in a physical Technical Envelop – 'TI'. Price Bids are to be submitted mandatory online and shall not be accepted in any physical form. Reference of the EMD is to be mentioned Online. Also, in case of Technical Bids, the list of documents being submitted physically is to be uploaded online.

Above envelop, as applicable, shall be kept in a big outer envelop, which shall also be sealed, In the first instance, the Envelop – 'ED' of all the Bidders containing the Earnest Money shall be opened online and physically. If the Earnest Money is found proper, the Envelop 'TI' containing Technical Bid shall be opened in the presence of such contractors who choose to be present. The Financial Offer in Envelop in 'CI' shall be opened only if the tenderers meet the qualification criteria and availability of bid capacity as per qualification, criteria of the Technical Bid document by the Chief Engineer. The date of opening of Financial Bid shall be fixed at the time of opening of Technical Bid.

The Contractual Agencies will submit the necessary documents as under.**Envelope 'A' – Earnest Money Deposit Envelop**

Physical EMD Envelop – Earnest Money in shape of deposit at call/Treasury Challan, Bank guarantee from Nationalized bank or ICICI /HDFC/IDBI, proof of enlistment and other proofs of machinery, if any as per requirements of DNIT etc.

Online EMD Envelope—Reference details of the Earnest Money Deposit instrument and scanned copy of the Earnest Money Deposit.

Envelope 'B' – Technical Bid Envelope

Online Technical Envelope – All the information and scanned copies of the Documents / Certificates as require to be submitted as per the Tender. Also, the list of such documents that can not be submitted online, if any Physical Technical Envelope – All the Information and Documents / Certificates as required to be submitted as per the Tender that cannot be submitted online, if any,

Envelope 'C' – Price Bid Envelope

To be submitted mandatory online- Information related to Price Bid of the Tender Both these Envelopes "A" and "B" shall be placed in another envelopes of bigger size clearly marking the name of agency & name of work. In case, the Bidders have submitted all the information and documents/ certificates required as a part of Technical Bid online, physical Envelope "B" shall not be required. Envelope "B" will be only opened if the Contractual Agency fulfills condition in Envelope "A".

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The contractual Agencies can submit their tender documents (Online and physical) as per the dated mentioned in the key Dates above:-

CONDITONS:-

- 1) DNIT & Prequalification can be seen on any working day during office hours in office of the undersigned as well as in the office of the Superintending Engineer, RohtakCircle, Hr.P.W (B&R) Deptt. Rohtak
- 2) Conditional tenders will not be entertained & are liable to be rejected.
- 3) In case the day of opening of tenders happens to be holiday, the tenders will be opened on the next working day. The time and place of receipt of tenders and other conditions will remain unchanged.
- 4) The undersigned reserve the right to reject any tender or all the tenders without assigning any reason.
- 5) The societies shall produce an attested copy of the resolution of the Co-Operative department for the issuance of tenders.
- 6) The tender without earnest money will not be opened.
- 7) The jurisdiction of court will be at Rohtak
- 8) The tender of the bidder who does not satisfy the qualification criteria in the bid documents are liable to be rejected. Summarily without arising any reason and no claim whatsoever on this account will be considered.
- 9) The bid for the work shall remain open for acceptance during the bid validity period to be reckoned from the date of 'Submit Bid Hash Online'. If any bidder/ tenderer withdraws his bid/ tender before the said period of makes any modifications in the terms and conditions of the bid, the said earnest money shall stand forfeited. Bids would require to be valid for 3 months from the date of bid closing.
- 10) A bidder shall not be permitted to bid for works in the Circle responsible for award and execution of contracts in which his or his spouse's near relative (defined as first blood relations, and their spouses) is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Assistant Engineer (both inclusive).
- 11) No engineer of Gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the State Government is allowed to work as a contractor for a period of two years after his retirement from Government service, without Government permission. This contract is liable to be cancelled if either the Contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government as aforesaid before submission of the tender or engagement in the contractor's service.

For and on behalf of Governor of Haryana

Executive Engineer,
<Division> Rohtak,
(Phone :01262-251879)

Endorsement No.

Dated

A copy of above is forwarded to the following for information and wide publicity:

- (1) Deputy Commissioner Rohtak
- (2) Engineer-in-Chief Haryana, PWD B&R Branch Chandigarh
- (3) Superintending Engineer, Rohtak Circle, P.W.D. B&R Br., Rohtak
- (4) All SDE's under Provincial Division, No.1/ 2, Rohtak
- (5) The Manager Co-op. L&C Society, Rohtak
- (6) All approved Contractors/Societies of PW(B&R) Deptt. of appropriate class .
Contractors of Delhi and nearby States
- (7) Deputy Superintendent/H.D.M./Divisional Accountant/Notice Board.
- (8) The Assistant Registrar Co-op Societies Rohtak


Executive Engineer,
<Division>Rohtak

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Press Note

HARYANA PWD B&R				
Notice inviting Tenders				
				
No		Cost	Money	opening of Bid
1.	Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District	423.34 Lacs	<u>423340</u> 846680 upto PM/ upto pm
For other detail visit website http://haryanapmgsy.etenders.in				
For & on behalf of Governor of Haryana				
Executive Engineer, Provincial Division No.2 , PWD B&R Br., Rohtak Phone No. 01262-251879				

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SECTION-1 (iii)**Instruction to Contractor on Electronic Tendering**

1. These conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

2. Registration of the Contractors on the Haryana PW(B&R) Deptt.'s website

<http://haryanapmgsy.etenders.in>

All the Contractors registered / intending to register with Haryana PW(B&R) Deptt. and intending to participate in the tenders processed online, are required to get registered on the Electronic Tendering System on the Portal <http://haryanapmgsy.etenders.in>

The Contractors registered with other departments who are also eligible to participate in the tenders are also required to be register on the Electronic Tendering System in OPEN category.

For more details, please see the information in Registration info link on the home page.

3. Obtaining a Digital Certificate:

3.1 The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an approved certifying authority, by the controller of Certifying Authorities, Government of India.

3.2 A Digital Certificate is issued upon receipt of mandatory identity proofs and verification letters attested by the bankers with whom the contractor maintains the accounts with. Only upon the receipt of the required documents, a digital certificate can be issued.

3.3 The registered contractors may obtain Class II B digital certificated from any Certifying Authority or Sub- certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required to issue of digital certificate from:

1. Nex Tenders (India) Pvt. Ltd.
YUCHIT, Juhu Tara Road,
Mumbai – 400049
Email: Chandigarh@nextenders.com

3.4 Bid for a particular tender may be submitted only using the digital certificate, which is used to encrypt the data and sign the hash during the stage of bid preparation and hash submission. In case, during the process of a particular tender, the user loses his digital certificate (i.e. due to virus attack, hardware problem, operating system problem); he may not be able to submit the bid online. Hence, the users are advised to back up to certificate and keep the copies at safe place under proper security to be used in case of emergencies.

3.5 In case of online tendering, if the digital certificate issue to the authorized user of a firm is used for signing and submitting a bid it will be considered equivalent to a no-objection certificate/power of attorney to that User. The firm has to authorize a specific individual via an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to

Contractor

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Executive Engineer

represent adequate authority of the user to bid on behalf of the firm for Haryana PWD B&R tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm. It shall be the responsibility of management / partners of the registered firms to inform the certifying authority of Sub / Certifying Authority, if the authorized user changes, and apply for a fresh digital certificate and issue a 'authorization certificates' for the new user. The procedure for application of a digital certificate will remain the same for the new user.

3.6 The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

4. Opening of an Electronic Payment Account:

4.1 For purchasing the tender documents online, contractors are required to pay the tender documents fees online using the electronic payments gateway service as mentioned in the D.N.I.T.

4.2 For the list of payments using which the online payments can be made, please refer to the Home page of the Portal <http://haryanapmgsy.etenders.in>.

5. Set up of machine

5.1 In order to operate on the electronic tender management system, a user's machine is required to be set up. A help file on setting up of the system can be obtained from next Tenders (India) Pvt. Ltd. or downloaded from the home page of the website - <http://haryanapmgsy.etenders.in>.

6. Online Viewing of Detailed Notice Inviting Tenders:

6.1 The contractors can view the detailed N.I.T and the time schedule (Key Dates) for all the packages floated using the electronic tendering system on the Haryana PWD B&R website <http://haryanapmgsy.etenders.in>

7. Purchase of Tender Documents:

a) Download of Tender Documents: The tender documents can only be downloaded from the Electronic Tendering System on the Portal <http://haryanapmgsy.etenders.in>

8. Submission of Bid Seal (Hash) of online Bids:

8.1 Submission of bids will be preceded by submission of the digitally signed bid seal (Hash) as stated in the tender time schedule (Key Dates) of the Tender.

9. Generation of Super Hash:

9.1 After the time of submission of Bid Seal (Hash) by the Contractors has lapsed, the bid round will be closed and a digitally signed tender Super Hash will be generated by authorized Haryana PWD B&R official. This is equivalent to sealing the tender box.

10. Submission of actual online bids:

10.1 Contractors have to submit their encrypted bids online and upload the relevant documents for which they generated the hash at the stage of hash generation and submission after the generation of Super Hash within the date and time as stated in the Notice Inviting Tenders (Key Dates). The electronic bids of only the contractors who have submitted their bid seals (Hashes) within the stipulated time, as per the tender time schedule (Key Dates), will be accepted by the System. A contractor who does not submit his bid seal (Hash) within the stipulated time will not be allowed to submit his bid.

11. Submission of Tender Document Fees:

11.1 The Payment can be made by eligible / approved contractors online directly or through Approved Traditional Financial Instruments. Arrangements have been made for contractors to make payments online via Credit Cards / Internet Banking Accounts / Cash Cards. The contractors have to pay for the tender documents online by making online payment of tender document fees using the service of the Secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors and credit card / online payment authorization networks.

11.2 Contractors submitting the Tender Document Fees physically have to submit it in a sealed physical envelope and the same should reach the office of concerned Executive Engineer as stated in the Tender Notice.

12. Submission of Earnest Money Deposit:

12.1 The EMD Payment can be made by eligible / approved contractors through Approved Traditional Financial Instruments.

12.2 Contractors have to submit the EMD physically in a sealed physical envelope and the same should reach the office of concerned Executive Engineer as mentioned in the Tender Notice.

13. Key Dates:

13.1 The contractors are strictly advised to follow dates and times as indicated in the Notice Inviting Tenders. The date and time will be binding on all contractors. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and time of the stage as defined in the Notice Inviting Tenders.

Other Information:

1. The intending Contractors shall fill in the item rate/percentage rate in the online templates in of the online tender. The Price Bid has to be submitted mandatory online.
2. The Earnest Money Deposit and Technical Bid Documents that cannot be submitted online, if any should be put in separate sealed envelopes and these sealed envelopes together with the documents listed below should be sealed in another cover and delivered to this office before the date and time mentioned in the Tender Notice.
 - i. A list of all documents accompanying the sealed envelopes containing the tender documents.

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- ii. Duly accepted power of Attorney in original along with its two certified copies in the name of tenderer or authorized representative to act on behalf of the agency.
- iii. Documents in respect of payment of earnest money.
 3. a) Tender must strictly abide by the stipulations set forth in detailed notice inviting tenders while tendering for the work, the tenderer shall adopt only the three envelope system.
 - b) The tender conditions shall be placed alongwith the pricing separately for each condition in lieu of its assumed withdrawal by the tenderer in the second envelope marked as “Condition and the pricing for withdrawal of each condition” in case of manual submission. The envelope must contain pricing of each condition of the tenderer, whatsoever. In case of non-compliance of partial compliance by the any tenderer in this respect, his price bid and the tender shall not at all be considered.
4. The second envelop – Price Bid envelope has to be submitted mandatory online and shall not be accepted physically under any circumstances. In case any tenders does not comply with procedure given above, will be presumed that he is not interest in the work and the work shall not be let out to him, further he may be de-listed without further notice to him for failing to abide by the strictly approved terms of detailed notice inviting tenders for this work.
5. The tenders which are not accompanied by the earnest money or proof or earnest money or do not strictly follow the technical requirement, are liable to be rejected summarily.
6. Tenders quotations which are dependent upon the quotations of another tender shall be summarily rejected.
7. The tender of the bidders who does not satisfy the qualification in the bid documents are liability to be rejected summarily without arising any reason and no claim what so ever on their account will be considered.

SECTION-2 (i)**INSTRUCTIONS TO BIDDERS****General**

1. Brief particulars are listed below, However tender documents may be referred to for correct appreciation of scope of work, conditions of contract, specifications etc.

1.	Name of Work	Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District
2	Scope of work	Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District
3	Construction Period	18 Months
4	Estimated cost of the project	Rs.423.34 Lacs
5	Validity of the tender	90 days after deadline date for submission of tenders
6	Cost of tender documents (non refundable)	Rs 15000/-
7	Earnest Money to be accompanied with the tender	Rs.423340/ 846680
8	Security deduction from running bills	10% subject to a maximum of 5% of the agreement amount.
9	Defect Liability Period-cum-Maintenance period	1 year

2. Important dates etc. in respect of this tender are listed below:-

1	Date and Time for Opening of EMD and Technical Envelopes	
2	Place of Opening of Bid	Superintending Engineer, Rohtak Circle, PWD B&R Br. Rohtak
3	Date and Time for Opening of Price Bid:	
4	Officer Inviting Bids	Executive Engineer, Provincial Division No.2, PWD B&R Branch Rohtak

1. In case the day of opening of tenders to be a holiday, the tender will be opened of the next working day at the same venue at the same time. However, the time, date & place of receipt of tenders and other conditions will remain unchanged.
2. Department reserves the rights to open or not to open any tender and to reject any or all the tenders without any liability whatsoever.
3. Canvassing of any kind is prohibited.

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4. Bidding is open to all eligible bidders meeting the eligibility criteria. One bidder can submit only one bid. All cost of preparing tender including visits to site and carrying out investigations and research are to bidder's account.
5. PWD may modify the bidding documents by using addenda before the deadline for submission of bids. Any addendum thus issued shall become a part of bidding documents.
6. Bidders shall not be under a declaration of intelligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.
7. The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarize himself with the site of works and its surroundings including source of earth, water, road, aggregates etc. and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the works. Particular attention may be given regarding availability of water. Water which is not suitable for construction as per relevant IS standards will not be allowed to be used under any circumstances.
8. The Bidder in his own interest is advised to familiarize himself regarding rate of taxes, duties, cess, surcharge etc applicable under this contract.
9. Bids shall remain valid for a period of 3 months after the deadline date for bid submission specified in Clause 20 of ITB, A bid valid for a shorter period shall be rejected by the Employer as non-responsive.
10. The Engineer-in-Charge for the purpose of this agreement means Executive Engineer in-charge of the work.

Executive Engineer,
Provincial Division No.2
PWD B&R Branch Rohtak
(Phone :01262-251879)

SECTION-2 (ii)

ELIGIBILITY FOR PRE-QUALIFICATION FOR AWARD OF CONTRACT

(1) To qualify for award of the Contract, each Bidder in its name should have in the last five years i.e. 2006-07 to 2010-11

- a) The applicant should have satisfactorily completed at least three works costing each not less than amount equal to 25% of cost of work or two works each costing not less than 30% of cost of work or one work costing not less than 40% of cost of work of bridges and buildings infrastructure project during the last five years. Cost of work shall mean gross value of the completed work including the cost of materials supplied by the Govt. Client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer, /Project Manager or equivalent (calculated on the basis of 8% value added compounded per year).
 - b) The applicant should have had minimum annual financial turn over of 30% of cost of work in any one financial year during last five years. This should be duly audited by a Chartered Accountant (8 % compounded value per year to be added)
 - c) The applicant performance for each work completed in the last five years and in hand should be certified by an officer not below the rank of Executive Engineer or equivalent.
2. The applicant should have not incurred any loss more than 2 years during the last 5 years ending last day of tender dully certified by the Chartered Accountant.
 3. The applicant should have own construction equipments listed below for the proper and timely execution of works. Else he should certify that he would be able to manage to equipments by hiring, etc. and submit the list of firm from whom he proposes to hire.
 4. The applicant should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The applicant should submit a list of these employees would be involved in this work.
 5. The contractor or his identified sub contractor should possess required valid license for executing the water supply / sanitary / Electrical Engineering works and should have executed similar water supply /sanitary / Electrical Engineering works.

List of Key plant & Equipment to be deployed on this work.

Sr. No.	Item of Equipment	Requirement
1	Concrete Weigh Batcher (for works more than Rs. 2.5 crores)	1 No. 3 bag capacity
2	Concrete vibrator (Skin)	2 Nos.
3	Needle vibrator	5 Nos.
4	Plate compactor	1 No.
5	Tipper/Dumper	Optional as required/4.5 cum (Min.)
6	Compressor	Optional as required/
7	Generator	1 No.
8	Bar bending Machine	1 No
9	JCB	Optional as required
10	Hydraulic lift/ordinary lift	As recovered
11	Concrete Mixer with hopper	1 No.
12	Concrete Mixer with hopper & lift	1 No.
13.	Steel plate shuttering & Pipe Grid arrangements, Jacks, Channel, I-sections, Brackets, Clamps etc for centering of suitable size.	As required at site.

QUALITY CONTROL LAB EQUIPMENT:-

Sr. No.	Item of Equipment	Requirement
1	Sieves required for Coarse Aggregate & fine aggregate	1 Set
2	Impact value testing equipment	1 Set
3	Cube Moulds	20 Nos.
4	Slump Test	2 Nos
5	Compression testing machine (Automatic recording-AIMILor equivalent make)	1 No
6	Electronics Weighing Machine	10 Kg capacity (1 No)
7	Water testing equipment meter	1 No
8	Electronic Moisture meter	1 No
9	Any other equipment required at site for quality control by the Engineer-in-charge.	

For the works costing more than Rs. 2.5 crores, if the contractor fails to bring concrete weigh batcher of minimum three bags capacity at site within one month after the date of allotment, the department shall arrange weigh batcher on its own and recovery at double the purchase cost of weigh batcher shall be made from the contractor.

If the contractual agency fails to bring any of the quality control lab equipment as mentioned above, the item will be arranged by the Department and recovery shall be made from the contractor's bill @ double the cost of that item.

QUALIFICATION INFORMATION

This information to be filled in by the Bidder in the following pages will be used for purposes of post qualification as provided in the Bid documents.

This information will not be incorporated in the Contract.

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- 1 Constitution or legal status of Bidder : _____
 [Attach Copy]
 Place of registration : _____
 Principal place of business : _____
 Power of attorney of signatory of Bid : _____

- 1.2 Total value of Civil Engineering 2006-2007
 Construction work executed and payment 2007-2008
 received in the last five years (in Rs. 2008-2009
 Million)—(Attach certificates from 2009-2010
 Chartered Accountant) 2010-2011

- 1.3 Work performed as prime contractor (in the same name) on works of similar nature over the last five years.

Project Name	Name of Employer	Description of Work	Contract No.	Value of contract (Rs. Crores)	Date of issue of work order	Stipulated period of completion	Actual date of completion	Remarks explaining reasons for delay and work completed

* Attach certificates from the Engineer(s)-in-Charge

- 1.4 Information works for which bids have been submitted and works which are yet to be completed as on the date of this bid.

(A) Existing commitments and on-going works.

Description of work	Place & State	Contract No. & Date	Name and Address of employer	Value of Contract (Rs. Crores)	Stipulated period of completion	Value of works remaining to be completed (Rs. Crores)	Anticipated date of completion
1	2	3	4	5	6	7	8

(B) Works for which bids already submitted:

Description of work	Place & State	Name and Address of employer	Estimated value of works (Rs. Crores)	Stipulated period of completion	Date when decision is expected	Remarks if any
1	2	3	4	5	6	7

- 1.5 The following items of Contractor's Equipment are essential for carrying out the Works. The Bidder should list all the information requested below.

Contractor

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Executive Engineer

Sr. No.	Item of Equipment	Requirement

1.6 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data.

Position	Name	Qualification	Years of experience (general)	Years of experience in the proposed position

1.7 Financial reports for the last five year: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporation), etc list them below and attach copies.

1.8 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

1.9 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contracted by the Employees.

1.10 Information on litigation history in which the Bidder is involved.

Other parties	Employer	Cause of dispute	Amount involved	Remarks showing present status

1.11 Statement of compliance under the requirement of the instructions to Bidders.

2.0 Bidders should provide any additional information required to fulfill the requirements.

- Note:**
1. **The Employer shall have the authority to get the statements/submissions furnished by the bidders verified from the concerned officers/offices.**
 2. **Bidders making false or misleading representations or submissions in the forms, Statements and attachments submitted in proof of qualification requirement shall be debarred from future tendering and shall also be blacklisted in addition to disqualification for the work apart from forfeiture of earnest money.**

SECTION-3

Stereo B&R No. 28

Name of Agency.....

Name of work: **Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District**

Approximate Cost **Rs.423.34 Lacs.**

PUBLIC WORKS DEPARTMENT

District: ROHTAK
Division: Provincial Division No.2
P.W.D. B&R Br., Rohtak.

Head Clerk
Accountant

**(FORM F-1)
PERCENTAGE RATE TENDER
AND
CONTRACT FOR WORKS**

GENERAL RULES AND DIRECTIONS FOR THE GUIDANCE OF CONTRACTORS

1. All work proposed for execution by contract will be notified in a Form of invitation to tender pasted on a board hung up in the office of and signed by the Executive Engineer.
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 as also the amount of earnest money to be deposited with tender, and the amount of the security deposit to be deposited by the successful tenderer and the percentage, if any to be deducted from bills. Copies of the specifications, designs and drawings, estimated rates/Haryana P.W.D. Schedule of rates 1988 and any other document required in connection with the work, signed for the purpose of identification by the Executive Engineer shall also be open for inspection by the contractors at the office of the Executive Engineer during office hours.
2. In the event of the tender being submitted by a firm, 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 authorising 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 one rate of percentage more or less on Haryana P.W.D. Schedule of rates 1988 shall be named. Tenders which propose any alteration in the work specified in the said Form of invitation to tender or in time allowed for carrying out the work or which contain any other conditions of any sort shall 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 a separate tender for each. Tender shall have the name and number of the work, to which they refer, written outside the envelope.
4. The Executive Engineer or his duly authorized assistant will open tender in the presence of any intending contractors or their authorized representatives or 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 there with shall thereupon be given to the contractor who shall there upon 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 there upon be returned to tenderer concerned.
5. The Executive Engineer shall have the right of rejecting all or any of the tenders.
6. The Department may refuse or suspend payments on account of a work when executed by a firm or by contractors 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 authorities en-baling him to give effectual receipt on behalf of the firm.
7. The receipt issued by an Accountant or Clerk for any money paid by the contractor will not be considered as an acknowledgement of such payment to the Executive Engineer unless the Executive Engineer signs the same.
8. The memorandum of work tendered for and the memorandum of materials to be supplied by Public Works Department and their issue rates, shall be filled in and completed in the Office of the Executive Engineer before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in & completed he shall request the office to have this done before the completes and delivers his tender.

For & on behalf of Governor of Haryana

Executive Engineer,
Provincial Division No. 2,
PWD B&R Branch Rohtak.

Contractor

Witness

Executive Engineer

TENDER FOR WORKS

1. I/We hereby tender for the execution for the Governor of Haryana hereinafter referred to as Government of the work specified in the under written memorandum within the time specified in such memorandum at...
 In figures as well as in words. percent below/ above the rates entered in the estimate/Haryana P.W.D. Schedule of rates 1988, mentioned in Rule and in accordance in all respects with the specifications, drawings and instructions in writing referred to in Rule 1 hereof and in Clause II of the annexed conditions are and with such materials as are provided for and by such in all other respects in accordance with such conditions so far as applicable.

(a) If several sub works are include they should be detailed in the separate list.

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

(c) This percentage where no security deposit is taken will vary from 5% to 10% subject to a maximum of 5% of contract value the requirements of the case where security deposit is taken see note to Clause 1 of conditions of contract

MEMORANDUM

(a) General description: **Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District**

(b) Estimated Cost = **Rs.423.34 Lacs**

(c) Earnest Money : From Society = **Rs.423340/-**

From Contractor = **Rs.846680/-**

(d) Security deposit (including earnest money) As per rule

(e) Percentage if any to be Rs.10% (Rupees ten percent) deducted from bills subject to maximum 5% of total agreement amount.

(f) Time allowed for the work from the date of written order to commence **18 (Eighteen) months**

2. Should this tender be accepted I/We hereby agree to abide by and 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 Government or its successors in office the sum of money mentioned in the said conditions.

Give particulars and numbers

3. The sum of Rs...../- deposited vide Government receipt No..... dated as earnest money the full value of which is to deposit is to be taken be absolutely forfeited to the Government or its successors in office, without prejudice to any other rights or remedies including action under clause 2 and 3 of the condition of contract annexed hereto of the said Government or its successors in office, should I/we fail to commence the work specified in the above memorandum otherwise the said sum of **Rs.423340/- /Rs.846680/-** shall be retained by Government on account of the security deposit specified in Clause 1(B) of the said conditions of contract.

Strike out (a) if no cash security deposit is to be taken.

Strike out (b) if any cash security deposit is taken

Engineer

Dated, the.....day of.....19.....

Witness
 Address
 Occupation

Signature of contractor before submission of tender

Signature of witness of contractors signature

The above tender is hereby accepted by me on behalf of the Governor of Haryana.

Dated, the.....day of 19.....

Signature of the Officer by whom accepted

Executive Engineer
 Provincial Division No.2
 PWD B&R Branch Rohtak

SECTION-4 (i)

CONDITIONS OF CONTRACT

Contractor

Witness

Executive Engineer

Security deposit

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

Clause 1 - The person/persons whose tender may be accepted (hereinafter called the contractor) shall permit Government at the time of making any payment to him for work done under the contract to deduct such sum as will (with the earnest money deposited by him) amount to 10% of all moneys subject to maximum 5 % of contract value so payable. Such deductions to be held by Govt. by way of security deposit. All compensation or other sums of money payable by the contractor to Government under the terms of his contract may be deducted from the security deposit account or from any sums which may be due or may become due to the contractor by Government on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction the contractor shall within ten days thereafter make good in cash or Government securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit.

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. The work shall throughout the stipulated period of the contract be proceeded with all due diligence (Completion of work within stipulated 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 0.5% (half percent) of the agreement amount, rounded off to the nearest thousand, per week or part thereof for the period that the completion date is later than the intended completion date. Liquidated damages at the same rate shall be withheld if the contractor fails to achieve the milestones given below. However, in case the contractor achieves the next milestone the amount of the liquidated damages already withhold shall be restored to the contractor by adjustment in the next payment certificate. The total amount of liquidated damages shall not exceed 10% (Ten percent) of the agreement amount. The Employer may deduct liquidated damages from payment due to the Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.

The milestones to be achieved are as under:-

1. 1/8th of the entire contract work upto 1/4th of the period allowed for completion of works.
2. 3/8th of the entire contract work upto 1/2 of the period allowed for completion of works.
3. 3/4th of the entire contract work upto 3/4th of the period allowed for completion of works

If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate.

The Chief Engineer with the approval of Engineer-in-Chief may on representation from the contractor reduce the amount of compensation and his decision in writing shall be final.

The **Intended Completion Date** is the date on which it is intended that the contractor shall completed the works. The Intended Completion Date may be revised by issuing an Extension of time.

Action when whole of Security deposit is forfeited

Clause 3- In any case in which under any clause or clauses of this contract the contractor has rendered himself liable to pay compensation amounting to the whole of his security deposit (whether paid in one sum or deducted by installments. The Executive Engineer on behalf of the Government shall have power to adopt any of following course as he may deem best suited to the interest of Government.

(a) To rescind the contract of which rescission notice in writing to the contractor under the hand of the Executive Engineer shall be conclusive evidence and in which case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of Government.

(b) To employ labour paid by the Public Works Department and to supply materials to carry out the work, or any part of the work debiting the contractor with the cost of the labour and the price of the materials (of the amount of such cost and price, a certificate of Executive Engineer 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 his contract the certificate of the Executive Engineer 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 expenses which may be incurred in excess of the sum which would have been paid to the original contractor of the whole work had been executed by him (of the amount of such excess, the certificate in writing of the Executive Engineer 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 Government under the contract or otherwise or from his security deposit.

In the event of any of the above courses being adopted by the Executive Engineer, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any material or entered into any engagement 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 contractor shall be rescinded under the provision aforesaid the contractor shall not be entitled to recover or be paid any sum for any work thereto for actually performed under the contract, unless and until the Executive Engineer 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.

Contractor

Witness

Executive Engineer

<p>Contractor remains liable to pay compensation if action not taken under Clause-3</p>	<p>Clause 4 – In any case in which any of the powers conferred upon the Executive Engineer by clause 3 hereof shall have become exercisable and the same have not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions thereof and such power shall notwithstanding be exercisable in the event of any future case of default by the contractor for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the Executive Engineer exercising either of the powers (a) or (c) vested in him under the proceeding clause he may. If he so desires, take possession of all or any tools plants materials and stores in or upon the works, or the site thereof 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 Executive Engineer whose certificate thereof shall be final otherwise the Executive Engineer may by notice in writing to contractor or his clerk of the works, foreman or other authorized agent require him to remove such tools and plant material 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 Executive Engineer 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 Executive Engineer as to the expense of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.</p>
<p>Power to take possession of or require removal of the sell contractor’s plant</p>	
<p>Extension of times.</p>	<p>Clause 5 – If the contractor shall desire an extension of 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 Executive Engineer within 30 days of the date of the hindrance on account of which he desires such extension as aforesaid and the Executive Engineer shall if in his opinion (which shall be final reasonable grounds be shown therefore authorize such extension of time, if any as may in his opinion be necessary or proper.</p>
<p>Contractor to submit a return every month on any work claimed as extra</p>	<p>Clause 5 A - The contractor shall deliver in the office of the Executive Engineer on or before the 10th day of every month during the continuance of work covered by this contract a return showing details of any work claimed for as extra and such return shall also contain the value of such work as claimed by the contractor, which value shall be based upon the rates 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 whatever kind and however arising which at the date thereof he has or may claim to have against the Executive Engineer 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 claims not so included whatsoever be the circumstances.</p>
<p>District rates mean the Haryana P.W.D., buildings & Roads Branch rates for that District.</p>	

Contractor

Witness

Executive Engineer

Final
Certificate

Clause 6 - Without prejudice to the right of Government under any clause hereinafter contained on completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer-in-Charge) of such completion but no such certificate shall be given nor shall the work be considered to be completed until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials and rubbish and cleaned off the dirt from all wood work, walls or floors or other parts of any building in upon or about which the work is to be executed or of which he may have had Possession for the purpose of the execution thereof and the measurements in the said certificate shall be binding and conclusive against the contractor shall fail to comply requirements of this clause as to removal of scaffolding, surplus materials and rubbish and cleaning of dirt of on or before the date fixed for the completion of the work the Engineer-in-charge may at the expense of the contractor remove such scaffolding surplus materials and rubbish and dispose of the same as he thinks fit and clean off such darts aforesaid and the contractor shall forth pay the amount of all expense so incurred and shall have no claim in respect of any such scaffolding or surplus materials aforesaid except for any sum actually realized by the sale thereof.

Payment on
intermediate
certificate to
be regarded as
advances

Clause 7 – No payment 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 than approved and pasted by the Engineer-in-charge whose certificate of such approval and passing of the sum of payable shall be final and conclusive against the Contractor. But all such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskillful 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 thereof 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 the 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.

Contractor

Witness

Executive Engineer

Bill to be submitted monthly 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 month and Engineer-in-charge shall take or cause to be taken the requisite measurements 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 the presence of the contractor, whose counter-signature to the measurement list will be sufficient warrant, and the Engineer-in-Charge may prepare a bill from such list which shall be binding on the contractor in all respects.

Bills to be on printed forms Clause 9 – The contractor shall submit all bills on the printed forms to be had on application at 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 the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the tender at the rates hereinafter provided for such work.

Clause 10 – If the specification of estimate 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 store to be provided by 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 mentioned being so far as practicable for the convenience of the contractor, but not so in any way to control the meaning or effect of this control, specified in the schedule or memorandum hereto annexed) the contractor shall be supplied with such materials and stores required from time to time to be used by him for the purpose of the contract only and the value of the full quantity of materials and stores so supplied at 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 against or from the security deposit. 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 times be open to inspection by him. Any such materials unused and in perfectly good condition at the time of the completion of the contract, shall be returned to the Engineer-in-charge’s 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 materials Unless with consent, and shall have no claims for compensation on account of any such materials so supplied to him as aforesaid being unused by him, or for any wastage or damage to any such materials.

Works to be executed in accordance with specification drawings orders etc.

Clause 11 – The contractor shall execute the whole and every part of the work in most substantial and workman like manner and both as regards materials and otherwise in every respect in-strict accordance with the specification. The contractor shall also conform 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 the office and to which the contractor shall be entitled to have access at such office, or at the site of work for the purpose of the inspection during office hours, and 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, drawing and instructions as aforesaid.

Clausen 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 works 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 work the contractor shall comply with the request forthwith.

Removal of employed workman and foreman

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 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 employees.

Alteration in specification and designs	in	Clause 12 – The Engineer-in-Charge shall have power to make any alteration in omission from addition to or substitutions for the original specifications, drawing, 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 instructions which may be given to him in writing signed by the Engineer-in-charge and such alterations, omissions, additions or substitutions shall not invalidate the contract, and any altered, additional or substituted work which the contractor may be the directed to do in the manner above specified as part of the work shall be carried out by the contractor on same conditions in all respects on which he agreed to do the main work, and at the same rates as are specified in the tender for the main work. The time for the completion of the work shall be extended in the proportion 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
Do not invalidate contracts		any class of work, for which no rate is specified in the contract, than such class
Extension of time consequence of alterations	of in of	of work shall be carried out at the rates entered in the schedule of rates of the district subject to the same percentage above or below as included in the contract and if such class of work is not entered in the schedule of rates of the district then the contractor shall within seven days of the date of the 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 and 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 class of work And arrange to carry it out in such manner as he may consider advisable provided always that if the contractor's shall commence work or incur any expenditure in regard there to before the rates shall have been determined lastly herein before mentioned, than and in such case he shall 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 the decision of Superintending Engineer of the circle shall be final.
Action & compensation payable in case of bad work	&	Clause 13 – If at any time after the commencement of the work the Government shall for any reason whatsoever not require the whole work there of 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 payment 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 for compensation by reason or any alterations having been made in the original specification drawings, designs and instructions which shall involve any curtailment of the work as originally contemplated.

Contractor

Witness

Executive Engineer

<p>No compensation for alteration in or restriction of work be carried out</p>	<p>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 unsounded, imperfect or unskillful workmanship or with materials of any inferior description or that any materials 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 of articles complained of notwithstanding that the same may have been inadvertently passed certified and paid for forth with rectify, or remove and reconstruct the work so specified in whole or in part as the case may require or as the case may be remove the materials or articles so specified and provide other proper and suitable materials or articles at his own proper charge 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 the Contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimated cost of the work covered by this contract for everyday 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 certify or remove and re-execute the work or remove and replace with other the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.</p>
<p>Works to be open to inspection</p>	<p>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 unsounded, imperfect or unskillful workmanship or with materials of any inferior description or that any materials 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 of articles complained of notwithstanding that the same may have been inadvertently passed certified and paid for forth with rectify, or remove and reconstruct the work so specified in whole or in part as the case may require or as the case may be remove the materials or articles so specified and provide other proper and suitable materials or articles at his own proper charge 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 the Contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimated cost of the work covered by this contract for everyday 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 certify or remove and re-execute the work or remove and replace with other the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.</p>
<p>Contractor responsible agent to be present</p>	<p>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 others times at which reasonable notice of the intention 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 orders and instructions or have a responsible agent duly accredited in writing present for that purpose. Orders given to the contractor’s agent shall be considered to have the same force as if they had been given to the contractor himself.</p>
<p>Notice to be given before works covered up.</p>	<p>Clause 16 - The contractor shall give not less than five days 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 order that the same may be measured and correct dimensions 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 and 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 the same shall be uncovered at the contractor’s expenses or in default thereof no payment or allowances shall be made for such work the materials with which the same was executed.</p>

Contractor

Witness

Executive Engineer

Contractor liable for damage and for imperfections for three months after certificate

Clause 17 - If the contractor or work people or his servants shall break, deface injure or destroy any part of building in which they may be working to any building, road, fence, enclosure of grass and are cultivated ground continuers to premises on which the work, or any part or it is being executed or if any damage shall happen to the work while in progress from any cause what ever any imperfections become apparent in it within three 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 workman and deduct the expense of which the certificate of the Engineer-in-charge shall be final from any sums that may be than or at any time thereafter may become due to the contractor or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof.

Contractor to supply plant ladders scaffolding etc.

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) plant, tools, appliances implements, ladders, cordage, tackle, scaffolding and temporary works requisite or Proper 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 requirements of the Engineer-in-charge as to any matter as to which under these conditions he is entitled to be satisfied or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials is necessary for the purpose of setting out work and counting, weighing and assigning in the measurement of 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 expenses of the contractor and the expenses may be deducted from any money due to the contractor under the or from his security deposit or the proceeds of sale thereof or of sufficient contract portion thereof.

And the liable for damages arising from non provisions of light fencing etc

The contractor shall also provide all necessary fencing and 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 precaution and to pay any damage and costs which may be awarded in any 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.

Clause 18(a) – The final bill of the contractor shall not be paid unless or until he furnishes to the satisfaction of the Engineer-in-Charge a proof of the price of the earth used for the works having been fully paid to the owners of the land from which the earth was removed or of the matter having been amicably settled with them. The contractor shall also be liable to indemnify the Government against all claims made proceedings and actions 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 cost and expenses which the Government may suffer or incur as a result of such claims.

Contractor

Witness

Executive Engineer

Labour	Clause 19(a) – No labour below the age of 12 years shall be employed on the work. Clause 19(b) - The contractor shall pay his labourers not less then the wages paid for similar work in the neighborhood.
Work on Sundays	Clause 19 (c) - Only refugee labour will be employed by the contractor. All the labourers who are employed by the contractor must be registered with the Employment Exchange. Clause 20 - No work shall be done on Sunday without the sanction in writing of the Engineer-in-charge.
Contractor liable for payments of compensation to injured workman or in case of death to his relations. Work not to be subject	Clause 20(a) – In every case in which by virtue of the provisions of Section 12 sub-section (1) of the workman’s Compensation Act, 1923 Government is obliged to pay compensation to a Workman employed by the contractor, in execution of the works, Government will recover from the contractor the amount of the compensation to paid and without the prejudice to the rights of Government under Section 12 sub-section(2) of the Act, Government shall be at liberty to recover such amount or any part there of by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise. Government shall not be bound to contest any claim made against it under section 12 sub-section(1) of the said Act, except on the written request of the contractor and upon his giving to Government full security for all costs for which Government might become liable in consequence of contesting such claim.
Contract may be rescinded and security deposit forfeited for in letting bribing or if contract becomes insolvent	Clause 21 - The contract shall not be assigned or sublet without the written approval of the Engineer-in-charge. And if the contractor shall assign or sublet his contract or attempt to do or become insolvent or commence any in solvency proceedings or make any composition with his creditors or attempt to do or if any bribe, gratuity, gift loan, requisite reward of advantage, pecuniary or otherwise shall either directly or indirectly be given promised or offered by the contractor or any part of his servants or agents to any public officer or person in the employ of government in any way relating to his office or employment or if any such officer or person shall become in any way directly or indirectly interested in the contract the Engineer-in-Charge may thereupon by notice in writing rescinded the contract and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Govt. and the same consequences shall ensure as if the contract had been rescinded under clause 3 here of and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.
Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss. Deduction of amounts due to Government on any account whatsoever to be permissible from sums payable to a contractor	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 Government without reference to the actual loss or damage sustained, and whether or not any damages shall have been sustained.

Contractor

Witness

Executive Engineer

Clause 22- (a) Any excess payment made to the contractor inadvertently or otherwise under this contract or any account whatever and any other sum bound to be due to Government by the contractor in respect of this contract or any other contract or work order or on any account whatever may be deducted from sum whatever payable by Government to the contractor either in respect of this contract or any work order or contract or any other account by any other account by any other department of the Government.

Changes in constitution of firm

Clause 23 - In the case of 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.

Work to be under direction of Superintending Engineer

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 Superintending Engineer of the circle 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.

Claims for payment of an extra ordinary nature to be referred to Govt. for decision.

Clause 25 - No claims for payment of an extra ordinary nature such as claims for a bonus for extra employed in completing the work before the expiry of the contractual period at the request of the Engineer-in-Charge or claims for compensation where work has been temporarily brought to a stand still through no fault of the contractor shall be allowed unless and to the extent that the same shall have been expressly sanctioned by the Haryana Govt. under the signature of its Secretaries.

25.A Dispute

(1) If any dispute or difference of any kind whatsoever shall arise between the Governor of Haryana/his authorized agent 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 the termination, abandonment or breach of the contract, it shall in the first instance be referred to for being settled by the Executive Engineer-incharge 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 hereinafter 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-Incharge as after said, with all due diligence whether he or the Governor of Haryana / his authorized agent requires arbitration as here in after provided or not. If the Executive Engineer-Incharge 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, Incharge of the work fails to the 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 Incharge request to the Engineer-In-Chief, that the matters in dispute be referred to arbitrator, as hereinafter provided.

2. All dispute or differences in respect of which the decision is not final and conclusive shall at the request in writing of either party, made in a communication sent through Registered A. D. Post, be referred to the sole arbitration of any serving, Superintending Engineer, or Chief Engineer of Haryana PWD B&R Br., to be nominated by designation by the Engineer-In-Chief, Haryana PWD B&R Br., at the relevant time. It will be no objection to any such appointment that the arbitrator so appointed is a Govt. servant or that he had to deal with the matters to which the contract relates and that in the course of his duties as a Government servant, he had expressed his views on all or any of the matter in dispute. 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.

In case the arbitrator nominated by the Engineer-in-Chief, is unable or unwilling to act as such for any reason, what so ever, the Engineer-In-Chief, shall be competent to appoint and nominate any other Superintending Engineer or Chief-Engineer, as the case may be, as arbitrator in his place and the Arbitrator so appointed shall be entitled to proceed with the reference.

3. It is also a term of this arbitration agreement that no person other than a person appointed by the Engineer-In-Chief, Haryana PWD B&R Br., 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 aggregate amount awarded exceeds Rs.25,000/- (Rs. Twenty Five thousands 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 Superintending Engineer and is being heard or/and has been finally decided by the Superintending Engineer, Incharge of the work.
- (b) Any dispute in respect of substituted, altered, additional work/omitted work /defective work referred by the contractor for the decision of the Superintending Engineer, Incharge of the work if it is being heard or has already been decided by the said Superintending Engineer.
- (c) Any dispute regarding the scope of the work or its execution or suspension or abandonment that has been referred by the contractor for decision of the Govt. of Haryana and has been so decided finally by Haryana Govt.

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 notwithstanding 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, Incharge of the work, a security deposit of a sum determined accordingly 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

Contractor

Witness

Executive Engineer

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:-

Sr No.	Amount of claims	Rate of security deposit.
1	For claims below Rs. 10,000/-	2% of amount claimed
2.	For claims of Rs. 10,000/- and above & below Rs. 1,00,000/-	5% of amount claimed.
3.	For claims of Rs. 1,00,000/- and above	10% 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.

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, incharge, or
- (b) of the date of abandonment of the work, or
- (c) of its non-commencement within 6 months from 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 rescission, or
- (e) of receiving an intimation from the Executive Engineer, Incharge of the work that final payment due to or recovery from the contractor had been determined which he may acknowledge and/or receive.

Whichever 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 invoking 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 a Civil Court. The pendency of arbitration proceedings shall not disentitle the Govt. to terminate the contract and make alternative arrangements for the completion of the work.

11. The arbitration 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 initial 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 and Conciliation Act, 1996, or any other law in force for the time being.

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 thereof or on connection there with unless he has obtained permission in writing from the Engineer - in - charge to obtain such stores and articles else where. 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 of this contract shall include the cost of carriage and all other expenses whatsoever which shall have been incurred in obtaining delivery of the same at the stores aforesaid.

- 26.A Any fluctuations in Railway rates which may occur during 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 Contractor within fifteen days from such date without prejudice to the rights of Government should the Contractor fail to comply with the above requirement any excess or short charge on account of such increase or decrease shall 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 e.g. fluctuation of railway freight on coal enquired for burning bricks will not be taken into consideration or for an articles which from part of a finished work or purpose 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 from part of a finished work.

27. Work shall be carried out in accordance with the Haryana PWD Specifications 1990 (to be read with up to date A&C slips). In the event of there being no specifications, then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer - in – charge.
28. In the case of any clause of work for which there is no such specification as is mentioned in rule 1, such work shall be carried out in accordance with the district specifications, and in the event of there being no district specification, than in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.
29. The expression "works" or 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 work by or by virtue of the Contract contracted to be executed whether temporary or permanent and whether original, altered, substituted or additional.
30. The percentage referred to in clause 1 of these Conditions of Contract will be calculated on the gross amount (value of finished work including cost of materials whether issued by the Government against price or direct) or (i) the items of work to which the rates in the tender apply and also (ii) the items of work for which rates exist in the Haryana Schedule of Rates.
31. The terms and conditions of the agreement have been explained to me/ us and I/ we clearly understand them.
32. The Additional Conditions of Contract, explanatory notes, technical specifications for Public Health and EI works, ITB, Haryana Public Works Department Contractor Labour Regulations, Fair Wage Clause and the Rules for the Protection of Health and Sanitary Arrangements for workers employed by Haryana PWD or its Contractors, shall be deemed to be part of this Contract and any breach there of shall be deemed to a breach of this Contract.
33. Statutory deductions including those in respect of VAT, Income Tax, Sale Tax, Service Tax, Labour Cess and surcharges on taxes etc. as applicable will be deducted from gross amount of each bill of the Contractor.

Condition regarding Cause of Action in respect of contract disputes and the appropriate court having jurisdiction over such disputes;

“In any suit for damages etc. for breach of contract, the cause of action consists of making of the contract and of its breach so that the suit may be filled either at the place where the contract was made or at place where it should have been performed and the breach occurred. The making of the contract is part of the cause of action. A suit on a contract therefore, can be filled at the place where the contract was made. The determination of the place where the contract was made is part of the law of contract. But making of an offer of a particular place does not form cause of action in a suit for damages for breach of contract ordinarily, acceptance of an offer and its intimation result in a contract and hence a suit can be filled in the court within whose jurisdiction the acceptance was communicated. The performance of a contract is part of cause of action and a suit in respect of the breach can always be filled at the place where the contract should have been performed or its performance completed. If the contract is to be performed at the place where the contract was made the suit on the contract is to be filled there as no where also. In suits for agency section, the cause of the action arises at the place, where the contract of an agency was made or the place where action are to be tendered and payment is to be made by agency part of cause of action arises where money is expressly or impliedly payable under a contract. In cases the place where repudiation is received is of repudiation of a contract, the place where the suit would lie if a contract is pleaded as part of the cause of action giving jurisdiction on the court. Where the suit is ruled on that contract is found to be invalid, such part of the cause of action disappears.”

SECTION-4 (ii)**ADDITIONAL CONDITIONS OF CONTRACT**

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 and 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 any item of the work or any part thereof at any time during the currency of the contract and reallocate it to any other agency or carry out such work departmentally, with the 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, bricks, wood and every other item required directly or indirectly for completion of work, except those to be provided by the Deptt. as provided elsewhere in this agreement.
4. No claim shall be entertained on account of increase in price of labour and material due to any cause whatsoever except for those materials for which specific provisions have been made in this agreement.
5. 10% security will be deducted from the gross amount of each running bill of the agency subject to a maximum of 5% and will be retained till the completion of the whole of the work. 50% amount of the security so deducted will be refunded after 90 days of completion of work. The remaining 50% security will be refunded after completion of defect liability period subject to the entire satisfaction of the Engineer-in-Charge.
6. In cases of emergency the contractor shall be required to pay his labour every day and if this is not done Govt. 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 / Govt. land for taking 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. There 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 if 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 will be responsible for any and all losses of material, damage done to unfinished work as a result of floods and other acts of God. The Govt. 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, if any shall be paid by the contractor direct to the respective department in accordance with their rules and regulations in force from time to time without intervention of the Public Works Department.

Contractor**Witness****Executive Engineer**

14. There will be double lock system for the cement store. One Key of the lock will be with the representative of the department and other key of the lock will be with the agency.
15. **(A) Amount and quantities of work are tentative and may be increased or decreased to any extent and any item omitted or substituted in accordance with requirement of the work and architectural & structural drawings. No claim on this account shall be entertained.**
(B) If the amount of agreement exceeds the approved amount of agreement, approval of enhanced amount will be issued from competent authority as per PWD Code before finalization/final payment of contractor; no compensation will be paid for time taken for approval from competent authority.
16. 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.
- (i) Suitable temporary hutting accommodation.
- (ii) Trench latrine, bathing enclosures plate-forms, separately for men and woman and their regular cleanliness.
- (iii) Clean drinking water.
- In the event of his failure to provide any or all of the amenities the same shall be provided by the Govt. 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.
17. The contractor shall be responsible for housing, sanitation and medical treatment of labourers employed by him and shall abide by all the rules and regulations made by Govt. in this behalf from time to time.
18. For contractor's labour regulations fair wage clause and rules for protection of health and sanitation arrangements for workers employed by the public works department or its contractor's reference be made to the concerned rules/Acts.
19. (I) The contractor shall be responsible for loss or damages to any material issued to him by the department from 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 or in manufacture of material required in connection there with 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 Govt. be recoverable from the contractor at double the rate which it is agreed to be supplied to the contractor.
- (II) The recovery from contractor for the material consumed in excess or in short of the original requirements as per specification herein stipulated or otherwise fixed by the Engineer-in-charge other than the variation to be regulated by the preceding clause.

FOR EXCESS CONSUMPTION OF MATERIALS FROM THE THEORETICAL CONSUMPTION

- (i) No Claim for Excess Consumption of material other than those specified shall be entertained by the department.

B. FOR SHORT CONSUMPTION OF CEMENT

- (i) Upto 5%, the recovery of cost of material thus saved shall be made from the contractor at the issue rate of HSR as applicable on date of tender.
- (ii) Less consumption by more than 5% (i.e. above 5 %) the rates of items of work involved shall be reduced. If it is not possible to determine the exact items on which less material has been used, the cost of the material so saved shall be recovered from the contractor at double the issue rate. The Executive Engineer reserves the right to take any other deterrent action which he deems fit against the contractor. It shall be at the discretion of the department to determine whether the stability of the structure is affected adversely due to less consumption of materials and in case it is felt that it is likely to be so, the Executive Engineer-in-charge shall reject the work and the decision of Superintending Engineer in such matter shall be final.

19. No claim of any kind what-so-ever shall be entertained for any and all the losses or damages to the contractor due to the completion of the work getting delayed due to the failure or delay on the part of the public works department under the terms and conditions of the contract.
20. 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 Superintending Engineer 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.
21. If for the execution of the work, the contractor will engage imported labour, he shall immediately inform the local health authorities 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.
22. Imported labour means labour belonging to a state other than Haryana State.
23. 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 public works department and contractor shall have no claim what-so-ever for such material.
24. 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. Whosoever required by the Engineer-in-Charge or his representative and nothing extra shall be paid for services.
25. The contractor shall maintain at site of work full details of specifications of the work fixed by the Engineer-in-Charge and approved drawings of the work.
26. Nothing extra shall be paid to the contractor for diversion of water in the channels stream if it becomes necessary for the execution and completion of the work.
27. The contractor will not have any claim in case of delay by the Department for removal of tree or shifting, raising, removing of telegraph, telephone, electric lines, water or sewer lines (Over head and under ground) and other structure, if any, which comes in the way of the work.
28. **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 pay out of his own money the fees or charges to which he may be liable.

29. **Occupation of Additional Lands:**

In case, when it becomes necessary for due fulfillment of the contract for the contractor to occupy land outside the P.W.D. limits the contractor shall make his own arrangement with the land owners and pay such amount, as may be mutually agreed upon by them.

30. 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 on the ground of any allegation or fact that incorrect information was given to him by any person whether in the employ of the Govt. 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 fore-see any matter which may in fact, effect or have affected the execution of the work.
31. During the absence on work of the Engineer-in-Charge he shall be represented by one of his subordinate whose duties are to watch and supervise the works, to test and examine any materials to be used or workmanship employed 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 the powers and authorities vested in him to the departmental representative in writing.
32. The Departmental representative shall have no authority to alter or waive the provisions of plans and estimates and specifications or to relieve the contractor or 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 suspend, to do, or rectify the work improperly performed or not according to plans and estimates or specifications in his judgment and the contractor shall comply.
33. Failure of the Departmental Representative to disapprove any work of 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.
34. The contractor will setup a full fledged laboratory at site of work with the required staff for testing of all the materials to be used in the work.
35. 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.
36. All materials and each part of detail of the work shall be subject at all times to inspection by the Engineer-in-charge, senior officers of the deptt., Departmental Representative or other authorized subordinate who shall be furnished with reasonable 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 plans and specifications.
37. 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. The information shall be furnished at least two weeks (or such other period as may be directed by Engineer-in-charge) in advance of the incorporation of any such materials in the works.
38. 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.
39. 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.

Contractor

Witness

Executive Engineer

40. 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-Charge in any way or effect 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 affected as shall enable him to certify that the work has been completed to his satisfaction.
41. The inspection of the work or materials shall not relieve the contractor any of his obligation to fulfill the terms of the contract as herein prescribed by the plans and specifications.
42. 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.
43. Unless otherwise provided in the contract document 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 Government.
- 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.
44. Any tress branches, bushes, crops etc. which may be required to be cut during the execution of the work shall be handed over to the Public Works Department or disposed of as directed.
45. Department shall not be responsible for any depreciation in the value of securities or for any loss of interest thereon.
46. Canvassing in connection with a tender in any form renders the tender liable to rejection.
47. If there are varying or conflicting provisions made in any documents forming part to the contract the accepting authority shall be the decision authority with regarded to the intension of the documents.
48. If, however, the contractor seeks to some assistance from the department in connection with arranging water/electric connection from the public utility service authorities for the purpose of Govt. 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.
49. The contractor may, on application of the contractor, issue essentiality certificate for Diesel/Petrol (if it becomes a controlled commodity) required for materials to be used on the work but the department will not undertake any responsibility for the arrangement of such Petrol/Diesel, Non availability of any such materials will not absolve the contractor of his contractual obligation.

MAINTAINENCE-CUM-DEFECT LIABILITY PERIOD

- 48 The defect liability-cum-maintenance period shall be one year from the date of completion. The date of completion shall be considered as the date certified by the Engineer-In-Charge.
- 48.1 The Engineer shall give notice to the contractor of any defects before the end of the Defects Liability-cum-Maintenance Period. The Defects Liability-cum-Maintenance period shall be extended for as long as defects remain to be corrected.
- 48.2 The Contractor shall correct the notified Defect / Defects within the length of time specified by the Engineer, notice.

Contractor

Witness

Executive Engineer

- 48.3 The contractor will be fully responsible for the quality and workmanship of the works executed by him. The liability on account of shortcomings in executed items found by any investigating agency during the defect liability period or afterwards shall be born by the agency.
- 48.4 The Contractor shall do be routine maintenance of building to the required standards in the manners as per Haryana PWD specifications latest edition, DNIT, agreement conditions and keep the whole building in defect free condition during defect liability period as defined above.
- 48.5 The routine maintenance standards shall meet the following minimum requirements to the entire satisfaction of Engineer-in-charge.:-
- i) Plaster work and flooring work to be repaired soon after these appear or brought to his notice either during contractor's monthly inspection or by the Engineer or otherwise. Repair shall be carried out in a manner which does not affect the aesthetics.
 - ii) Defective joinery such as door, window, cup-board shutters, chowkhats, wire gauge, glass panes, fitting, fixtures etc. to be rectified / replaced immediately after the defects appear.
 - iii) Any structural damage / fault / defect to be rectified to the satisfaction of Engineer-In-Charge as soon as the same appears.
 - iv) Defective or incomplete/improper white washing / colour washing, distempering, painting etc. to be rectified immediately on notice by the Engineer-in-charge.
 - v) All rain water pipes, sun-shades and the like components to be inspected every fortnightly and cleaned as and when required.
 - vi) Leakage of water of any kind in the building to be set right immediately on priority.
 - vii) All electrical / Public Health installations including wiring, pipelines etc. made in the building to be repaired / rectified / replaced as soon as any defect has appeared / notice.
 - viii) The agency shall make good all the items / works damaged during the repair being done by him and bring the same in original form.
 - ix) Any other maintenance operation required to keep the building use worthy at all the time during the maintenance period.
 - x) He shall maintain a register in the building for daily recording the defects, damages, shortcomings noticed by user and address the problem within three days or else he will approach the Engineer-in-charge for extension of this time.
- 48.6 To fulfill the objectives laid down in above sub clauses, the contractor shall undertake detailed inspection of the building at least once in a month. The Engineer-in-charge can reduce this frequency in case of emergency. The Contractor shall forward to the Engineer-in-charge the record of inspection and rectification every month. The contractor shall pay particular attention on the maintenance of building during rains and rainy season.
- 48.7 The Engineer may issue notice to the contractor to carry out maintenance or remove defects, if any, notice in his inspection, or brought to his notice. The contractor shall remove the defects within the period specified in the notice and submit to the Engineer-in-charge a compliance report. By not giving notice, will not absolve the contractor from his responsibility.
- 48.8 In case the contractor fails to make good the defects, the Executive Engineer may employ any other person to make good such defects and all expenses consequent and incidental there to shall be borne by the contractor.

Contractor**Witness****Executive Engineer**

- 48.9 The contract shall not be considered as completed until a defect liability-cum-maintenance certificate has been signed by the Executive Engineer and delivered to the contractor stating that the works have been completed and maintained to his satisfaction. The defect liability-cum-maintenance certificate shall be given by the Executive Engineer.
49. All taxes, cess, duties & surcharges like Sale Tax, Income Tax, Labour Cess, Service tax etc. as applicable from time to time shall be deducted from the gross amount of the bills of the contractor.
50. **If the agency does not fill/quote the rates of any items then it will be considered as NIL and same will be executed by the agency free of cost and it will be contingent to work. The agency will have to give an undertaking on account of above, other wise earnest money will be forfeited; in addition, Engineer-in-Charge may also blacklist the agency.**
51. Rates should be quoted by the tenderer both in word and in figure, in case of any difference between the two, the lowest of the same shall be considered as final rate.
52. Water should be got tested at regular interval i.e. every months from the Laboratory approved by engineer no extra cost will be paid.
53. The contractor will submit the design of temporary structure scaffolding to department in advance without any cost. The contractor will remain responsible for design and safety of scaffolding irrespective of approval by the Engineer-in Charge. Only steel shuttering & centering is allowed to be used as mentioned in ITB nothing extra on this account will be paid
54. Contractor will provide a well equipped site laboratory alongwith trained for day to day testing of material.
55. The contractor shall employ on the work well qualified Engineers such as Degree Holder and Diploma Holder as per detail given below. Daily attendance of the engineers of the contractor shall be marked by the J.E –Incharge of the work in the attendance register. In case of Non-employment of qualified engineers by the contractor, the department shall employ these engineers and deduction at the rate given below shall be made from the bill/due payment of the contractor irrespective of the amount paid to the engineers.

Sr. No.	Agreement Amount.	Key personal required to be Employed by the contractor.	Recovery rate in case non – Employment.
1	Upto Rs. 50 lacs	Foreman with 5 years experience of building construction.	Rs. 20,000/- per month
2	Above Rs. 50.00 lacs and upto Rs. 500.00 lacs.	One Civil Engineer with degree in Civil Engineering with 2 years experience or Diploma in Civil Engineering with 5 years experience in building construction.	Rs. 75,000/- per month
3	Above Rs. 500.00 lacs	One Civil Engineer with degree in Civil Engineering with 5 years experience in building construction and one Quality Control Engineer with Diploma in Civil Engineering with 2 years experience in quality control.	Rs. 1,00,000/- per month for Civil Engineer and Rs. 50,000/- per month for Quality Control Engineer.

Contractor

Witness

Executive Engineer

56. Wherever brick work or 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 and 27/08/2003 i.e. by using FLY ASH brick and filling/embankment construction by pond ASH Fly as specified in the aforesaid notification getting the design approved from Engineer- in-Charge.
57. Price variation of cement and steel only shall be applicable as under:-

Increase/ decrease in prices of cement and steel reinforcement bars after receipt of tender:-

If after submission of the, the price of cement / or steel reinforcement bars incorporated in the works (not being a material supplied from the Engineer-in-Charge's Store) increase (s) beyond the price (s) prevailing at the time of the last stipulated date for receipt of tenders (including extensions, if any) for the work, then the amount of the contract shall accordingly be varied and provided further that any such increase shall not be payable if such increase has become operative after the stipulated date of completion of work in question.

If after submission of the, the price of cement / or steel reinforcement bars incorporated in the works (not being a material supplied from the Engineer-in-Charge's Store) is decreased, Govt. shall in respect of these materials incorporated in the works (not being materials supplied from the Engineer-in-Stores) be entitled to deduct from the dues of the contractor such amount as shall be equivalent to the difference between the prices of cement or steel reinforcement bars as prevailed at the time of last stipulated date for receipt of tenders including extensions if any for the work and the prices of these materials on the coming into force of such base price of cement and or steel reinforcement bars issued under authority of Engineer-in-Chief, Haryana PWD B&R, Chandigarh.

It is further clarified that the decrease in the prices of cement and steel shall be deducted from the dues of the contractor if such decrease has become operative after the stipulated date of completion of work in question and increase shall not be payable if such increase shall not be payable if such increase has become operative after the stipulated date of completion of work in question.

The increase/ decrease in prices shall be determined by the All India Wholesale Prices Indices for cement and steel (Bars and rods) as published by the Economic Advisor to Government of India, Ministry of Commerce and Industry) and base price for cement and or steel reinforcement bars as issued under authority of Engineer-in-Chief, Haryana PWD B&R, Br. Chandigarh as valid on the last stipulated date of receipt of tender, including extension if any and for the period under consideration.

The amount of the contract shall accordingly be carried for cement and or steel reinforcement bars and will be worked out as per the formula given below:-

a) Adjustment for component of "Cement"

$$V_c = P_c \times Q_c \times \frac{(C_1 - C_{10})}{C_{10}}$$

Where,

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

P_c = Base price of cement as issued under authority of Engineer-in-Chief, Haryana PWD B&R, Br. Chandigarh valid at the time of the last stipulated of receipt of tender including extension if any.

Q_c = Quantity of cement used in the works since previous bill.

C_{10} = All India wholesale price index for cement as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce as valid on the last stipulated date of receipt of tenders including extensions if any.

C_1 = All India wholesale price index for cement for period consideration as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce

$$V_s = P_s \times Q_s \times \frac{S_1 - S_{10}}{S_{10}}$$

Where,

V_s= Variation in steel cost reinforcement bars i.e increase or decrease in the amount in rupees to be paid or recovered.

P_s= Base price of steel reinforcement bars as issued under authority of Engineer-in-Chief, Haryana PWD B&R, Br. Chandigarh valid at the time of the last stipulated of receipt of tender including extension if any.

Q_s= Quantity of steel paid either by way of secured advanced or used in the works since previous bill(whichever is earlier).

SI₀= All India wholesale price index for steel(bars and rods) as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce as valid on the last stipulated date of receipt of tenders including extensions if any.

S₁= All India wholesale price index for steel (bars and rods) for period consideration as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce

Item	Basic Rate (in Rs.)
Cement OPC	Rs.4100/- Per M.T.
Steel TMT Steel Reinforcement Base	Rs.34000/- Per M.T.

58. Wooden flush door of only Jawala & Ujjala make ISI marked will be accepted.

59. 43 Grade OPC cement of the following reputed firm will be accepted:

(i) J.K. Cement (ii) Vikram Cement (iii) Birla Cement (iv)Shree Cement (v) J.P. Cement

Steel of Fe 500 grade firm SAIL, RINIL & TATA will be accepted.

60. Insurance

60.1 The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the date of completion, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- loss of or damage to the Works, Plant and Materials;
- loss of or damage to Equipment;
- loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- Personal injury or death.

60.2 Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees to rectify the loss or damage incurred.

60.3 (a) The Contractor at his cost shall also provide, in the joint names of the Employer and the Contractor, insurance cover from the date of completion to the end of defect liability period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

(a)Personal injury or death.

60.3 (b) Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the completion date/ start date. All such insurance shall provide for compensation to be payable in Indian Rupees.

60.4 Alterations to the terms of insurance shall not be made without the approval of the Engineer.

Contractor

Witness

Executive Engineer

60.5 Both parties shall comply with any conditions of the insurance policies.

61. **Work Programme**

After approval of tender, the contractor shall submit his weekly work programme on the Bar Chart for execution of work and get it approved the Engineer-in-Charge within 15 days of allotment of work. The contractor will submit monthly requirement of funds within 15 days of the allotment of work.

62. **Condition of “As Built” Drawings.**

“As Built” Drawings would be supplied by the contractor in two sets with in 28 (Twenty Eight) days of issue of certificate of completion of whole or section of the work as the case may be.

If the contractor does not supply the above drawings by due date the Department/Engineer shall withhold the amount of Rs.2.00 Lacs from payments due to the contractor and the same shall be got prepared through an independent agency at the contractors risk and cost.

63. **IIIrd Party Inspection:** The Engineer-in-Charge will opt for 3rd party inspection other than Department in addition to inspection by Department staff. The 3rd party would inspect the work during its execution to ensure execution of work as per specification/agreement and also quality control i.e. drawl of samples testing & other items etc. The report of the same would be submitted to Engineer-in-Charges by the 3rd party. The agency/Contractor shall be bound by the report of 3rd party. The agency/contractor shall be bound by the report of 3rd party inspection and shall take remedial measures for execution of work as per specifications in agreement. The inspection and sample testing charges will be borne by the Department.

SECTION-5

A. Schedule showing (approximately) material to be supplied from the Public Works Store for works contracted to be executed and the rates of which they are to be charged for.

Particulars	Rates at which the material will be charged to contractor	Place of delivery
	Nil	

The following material will be arranged as per Broad Specification by the Contractor/Society himself and rate including the cost of cement and steel may be quoted.

- | | |
|---|--|
| 1 Ordinary Portland/cement packed in Gunny bags container | Please see Broad specification of various material to be arranged and used by the contractor/bidder himself. |
| 2 FE 500 Steel (all dia) tor bars | Please see Broad specification of various material to be arranged and used by the contractor/bidder himself. |

B. Schedule showing (approximately) material to be supplied from P.W.D.(Store) for works contracted to be executed at labour rate as mentioned in the item of DNIT:-

1. Tiles
2. Marble/Granite & Other stones
3. Painting material.
4. Joinery Fitting etc.

Conditions :-

1. Tiles, Paints and Fitting/Stones will be supplied to the contractor in standard packing bags as and when received from the suppliers at PWD Main Store, Jhajjar Road, Rohtak..
2. Marble Granite etc will be issued/intended to the contractor as per the mutually measured by JEs of the department and contractor.
3. No claim what- so ever on account of delay in supply of the above material will be entertained by the department.
4. No claim will as entertained for damage or loss of material in custody of the contractor due to rains, floods or any other acts of God.
5. The carriage of the material is to be done by the contractor to the site of work without any compensation.

Note: - The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Engineer-in-charge on the issue of form prior to submission of the tender.

Executive Engineer,
Provincial Division No.2,
PWD B&R Branch Rohtak

Contractor

Witness

Executive Engineer

SECTION-6 (i)**EXPLANATORY NOTES**

1. The above rates are for complete work including cost of all materials, labour, tools and plants and water etc. unless or otherwise specified.
2. All other items covered by the Haryana PWD schedule of rates 1988, 2nd edition corrected upto date and got 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 for similar item of relevant chapter.
3. All clauses and notes given in the Haryana PWD schedule of rates 1988 2nd edition with upto date correction slips issued upto the date of tender shall be applicable to all above items wherever necessary.
4. The description, rates, units, etc. of above schedule shall be corrected as per Haryana PWD schedule of rate 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 latest 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-up-to-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 manufactures 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 I.S.I. certification 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 confirm 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.
9. The contractor shall provide suitable measuring arrangements at site for checking of various articles brought by him to ensure mixing in specified proportions.
10. The contractor shall provide such recesses, hole, openings etc. as directed by Engineer-in-Charge as required for the Electrical / sanitary work and nothing shall be payable on this account.
- 10 (a) The description in rates units etc. of above schedule shall be corrected as per Haryana PWD schedule of rate 1988, 2nd edition in case of any error for omission.
11. Thickness of RCC shall be measured and paid for as 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. Where there is a provision for flush door shutters, only doors as bear the ISI certification marks and arranged from manufacturer of good repute shall be accepted. In case flush door shutters bearing ISI certification marks are not available in the market, flush door shutters confirming to ISI specifications and arranged from manufacturer of good repute shall only be accepted. They should be water proof, termite proof and have a guarantee for 10 years for any defect liability.

14. Steel butt hinges shall strictly conform to Indian standard specification, IS-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 / non agreement items i.e. items which are not provided in the Notice Inviting Tender / Haryana PWD Schedule of Rates, 1988 2nd editions corrected upto date shall be payable as per actual lowest market rates from the recognized public market suitable to the executing division and wages of labour as applicable at the time of execution of work, plus admissible contractors profit and over head charge. 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. The rates for non-schedule items shall be approved by the competent authority as recognized in the departmental financial rules in existence at the time of approval.
- 15(a) The agency will provide two nos. board of size 4' X 2½" at the site of work intimating the detail of the project otherwise deduction will be made from the first running bill of the agency @ Rs.15,000/- per board.
16. Tender with the condition regarding steel work to be done at labour rates shall be considered invalid and rejected straightway.
- 16(a) Contractor will use coarse aggregate (all type of stone grit) and coarse sand i.e. stone dust (zone II as per IS code) The material should conform to the latest IS specifications.
17. The quantities of items given in the Schedule are tentative. These can be increased or decreased to any extent as per working Architectural drawings / structural drawings.
18. Only I.S.I. marked factory manufactured flush door shutters, ply and block board should be used wherever required.
19. For quality control, the contractor shall be required to use cement concrete mix giving minimum cube strength as may be prescribed in the relevant structural drawings of work. For cement concrete and cement mortar work and other items the test should be regularly carried out as per procedure laid down in relevant ISI & other codes at the expenses of the contractor. The rates provided in the HSR 1988 2nd edition included the cost of such testings. 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 department and recovery shall be made from the bill of the contractor at double the cost of that item.
20. Irrespective of what is stated in para-6 of General Rules of Haryana PWD schedule of rates, 1988 2nd edition no carriage of cement, steel and bricks or any other type of material shall be admissible irrespective of any lead involved as the entire carriage included in the rates.
21. Wherever brick work or 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 14.9.1999 and 27.8.2003 i.e. by using fly ash bricks and filling/ embankment construction by pond ash/fly ash, as specified in the aforesaid notification after getting the design approved from the Engineer-in-Charge.
22. Statutory deductions including those in respect of VAT, 2% Income Tax, 4% Sales Tax, surcharge & 1% labour cess as applicable will be deducted from Gross Amount of each bill of the agency/contractor.
23. In case of factory manufactured paneled door and glazed window shutters and wire gauge shutters the agency will get the name of manufacturer approved firm from the department and produce a warranty of five years certificate in favour of the department in case of door and window shutters the type of wood shall be given by the manufacturer. The agency shall produce a certificate that door and window shutter fixed at site are actually factory manufactured. In case agency fails to do so the rate for the same shall be paid as per site manufactured shutters as per item No. 17.30 and 17.31 of HSR 1988 Second Edition.
- 23(a) Marble will be arranged by the deptt. and supplied to the agency for use except otherwise provided in the agreement.

Contractor

Witness

Executive Engineer

24. **Glazed Tiles:** - The glazed tiles shall be of first quality and of reputed firms for example Kajaria/ Somany /Orient and Johnson etc. as approved by Engineer-In-charge.
25. In case the glazed tiles of size other than exhibited in the DNIT are got fixed then the rates for the same size shall be paid as exhibited in the DNIT and no extra rate shall be payable for the same.
26. **Precast Terrazo Tiles :-** The pre-cast terrazzo tiles shall be ISI marked and will be of the make as approved by Engineer-In-charge.
27. **Cement :** Ordinary Portland cement of 43 grade conforming to ISI standards and of reputed firms, as approved by Engineer-in-charge shall be arranged by the agency himself. If PPC is allowed to be used by the Engineer-in-charge, then recovery as provided in HSR shall be made. Cement manufactured by mini cement plants shall not be allowed to be used. In case of departmental supply of cement, the cement supplied by the department at the issue rate specified in the agreement shall be used.
Steel : - Reinforced steel of Fe- 500 grade conforming to ISI 1786 of reputed firms such as SAIL/ RINL/TISCO/IISCO only shall be arranged by the agency himself for the use in work. In case of non availability of steel from these companies the engineer-in-charge may allow steel of other reputed firms as approved by him and in such case recovery as provided in HSR shall be made. Nothing extra is payable for using Fe-500 grade steel. In case of departmental supply of steel, the steel supplied by the department at the issue rates specified in the agreement shall be used.
28. Test certificate from Shree Ram Test House or any other reputed test house shall be supplied by the agency for each lot of cement and steel. The department shall also get the cement and steel tested frequently for which charges shall be born by the agency. The original voucher / bills of steel and cement shall be supplied to the department for verification.
29. **All the flooring like terrazzo kotah stone or marble flooring should be granite finishing no extra rate shall be paid for this account**
30. All aluminum fittings for doors and windows shall be of 'Classic' or equivalents make confirming to I.S. Specifications as approved by the Engineer-in-Charge, if required.
31. First Quality the glazed/ceramic/vitrified tiles shall be of reputed make for example:- Kajaria, Johnson's, NITCO, RAK, Naveen etc. will only be used after prior approval from the Engineer-in-Charge, if required.
32. The Engineer-in-Charge for the purpose of this agreement means Executive Engineer Incharge of the work.
33. Aggregates i.e. fine and course from Khanak quarry is allowed to be used in all works. In fine material limit of silt contents should be below 4%.
34. Inspection of H.D.P.E. pipe M.H. cover, frame & steps will be carried out by the Engineer-in-Charge or his representative before the same as brought at site for use H.D.P.E. pipe will be confirming to all the tests including optional test as per 14333/1996 for H.D.P.E. pipe with upto date amendment.
35. The measurement of S.W. pipe & RCC NP3 pipe sewer provided on through rate basis will be done by at least 2 No. JE,s to be nominated by Engineer-in-Charge.
36. Each man hole cover and frame shall have the trade mark of manufacture month any year alongwith class and work and shall be ISI mark.
37. Inspection of S.W. pipe will be carried out by Engineer-in-Charge or his representative before the same area brought at site for use and S.W. pipe shall be confirming to all the tests including optional test as per IS 651-1992 with upto date amendments.

SECTION-6 (ii)**TECHNICAL CONDITION FOR EI WORK**

1. The recovery of the pipe already laid will be made on measurement rate basis or point rate basis or on actual expenditure basis which ever is on high side. In case of Departmental work, 10% supervision charges shall also be added.
2. Conduit pipe where already laid for wiring purpose will be delivered to the contractor in absolutely clean condition with round inspection boxes duly painted, covered and whole system tested. After the conduit system is handed over to the contractor to whom the work is allotted, he will be responsible for its upkeep.
3. During execution of work, if the contractor does not lay pipe and its accessories in the slab within time prescribed by the Engineer-in-Chief of the work, the Deptt. can then lay the said pipe-departmentally at contractors risk and cost without operating the clause 2 and 3 of the contract agreement.
4. Separate conduit pipe for power plug with independent circuit wires shall be laid.
5. Multi plugs shall be provided in all the buildings.
6. C-Series MCB will be provided for air conditioner wiring and no extra payment will be made and only one make of MCB's will be used in whole work.
7. Vertical type of MCB distribution boards will be provided wherever required as per design.
8. The contractor is also allowed to use MCBs duly ISI marked of more then 9 KA breaking capacity for which no extra payment will be made.
9. For HSR item no.31.12 (D), 31.15 the make of enclosure will be same as that of MCB of standard size having thickness 1.6 mm and 1.2 mm in case of TPN and SPN enclosure respectively.
10. All MCCBs upto 220 Amp will have 25 KA minimum breaking capacity and above 220 amp. MCCBs will have 50 KA minimum breaking capacity. All MCCBs will have magnetic thermal release and rotary operating mechanism duly interlocked and only one make of MCCBs shall be used in whole work. No extra payment on this account shall be made.
11. The thickness of M.S. Sheet of switch boxes should be of 16 gauges for which no extra payment will be made.
12. The fan boxes sheet should be 16 gauge and anodized for which no extra payment will be made.
13. The contractor shall install the material from the list of approved electrical material appended in the NIT. Material not covered in the list will be used as per HSR-1988, and PWD Specifications-1990.
14. The contractor must ensure preparation and submission of pipe diagram, wiring diagram, key diagram etc. as required vide PWD Specifications Chapter No. 31.6.
15. Where ISI recommends multi stranded conductor of cable, cable with multi-stranded conductor only will be used on work.
16. Rates should be quoted by the tenderer both in word and in figure, in case of any difference between the two, the lowest of the same shall be considered as final rate.
17. The rates of bus bar includes the cost of all Labour and material required to complete the job in all respect including thimbles etc. of the same material as that of bars. The support for bars will be made of porcelain. No extra payment in this regard will be given.
18. The tenderer must either be 'A' Class Electrical Contractor enlisted with Haryana PW(B&R) Deptt. or he must sublet the electrical work to a sub contractor

Contractor**Witness****Executive Engineer**

possessing the above qualification. The Sub contracting will be done with the written approval of Superintending Engineer, Elect. Circle PW(B&R) Deptt., Karnal or Executive Engineer, Elect. Divn. PW(B&R) Deptt. (concerned division) as per competency

19. The contractor must employ the following staff while carrying out work:-
 - i) When any work costing
More than Rs.50000/- to Diploma holder JE
Rs. 2 Lacs is under execution
 - ii) From 2 Lacs up to 5 lacs Diploma holder JE with 5 year experience
 - iii) Above 5 lacs Degree holder Engineer
21. All the street light fittings, bulbs and cables will be got inspected by the contractor at the works/Go down of the manufacturer before installation at site. A certificate will also be produced/ submitted by the contractor about the authenticity of purchase of above material from the authorized source.
22. Only HYLAM make ISI make (I.S.2036-1995) white Bakelite sheet will be used on the work without any extra cost.
23. The rates mentioned in the NIT are for complete item including cost of all accessories, material, labour, tool plants, water electricity bills etc. Unless otherwise specified. No extra payment for the same shall be made.
24. The minimum size of MS control switch boards for controlling one fan point and one light point shall not be less than 20cm x 25cm x 10cm.
25. The MS box for telephone, Intercom and Bell push shall be installed of size 100mm x 100mm x 60mm in place of 75mm x 75mm x 60mm.
26. The tender having ambiguous/confusing rates and conditions shall be summarily rejected.
27. The quantity/amount of NIT can be increased or decreased.
28. No Road cut charges shall be paid.
29. The contractor shall install two number check nuts and one No. PVC threaded Bush for each pipe in MS inspection boxes. The contractor shall also install PVC flanged bush in the junction boxes for each pipe. No extra payment on this account will be made. The contractor shall quote the rates accordingly.

L.T. panel shall be as per following specification: -

General: - This distribution board shall be fabricated out of 14 gauge sheet steel cubical type suitable for floor mounting end or dead front type. Suitable rubber gaskets shall be provided between all opening and joint to make the distribution board dust, moisture and vermin proof. The distribution board shall be suitable for indoor location and shall consist of the bus bar chambers both vertically and horizontally and the cable entry for the distribution shall be from bottom. Distribution board will consist of a number of vertical sections. Each vertical section shall be divided in to a few standard sizes of the compartment. The equipment for the various incoming and out going feeders shall be housed in a separate compartment. Each compartment door of distribution board shall be provided with inter locking arrangement with the handle of the respective switches/ MCCB such that the door can not be opened unless the switches are in the off position. Vertical cable entry shall be provided on each section of the distribution board for cabling purpose. Continues bus bar of copper shall be provided at the bottom along the entire length, cable compartment with concealed hinged front door will be fully segregated from the main horizontal/ vertical bus bar of equipment module. The distribution board shall be painted with a suitable enameled shade after necessary primary treatment. The distribution

Contractor

Witness

Executive Engineer

board shall be suitable for operation on 415 volts 3 phase 50 cycles per second A.C. supply system.

Bus Bar: - The high conductivity copper bus bar provided in the chambers shall be duly tinned and insulated and rigidly supported at the short intervals by strong 12mm thick non inflammable hylam partitions. The partitions shall be so designed so as to with stand the stress, which can normally occur on short circuits. Further, The bus bars and links shall be of flat copper dully tinned so that the contract between bus bars shall be easily accessible from front for any connections and inspection etc.

The bus bars chamber should have of strong metal having no possibility of any dents, due to accidents and damage, which could result into electrical fault. Bus bars chamber shall be of unit type construction and have standard flanges opening at the top and bottom on both side so that any modification, extension can be easily effected at the site.

Test Certificate: - A test certificate from the manufacturer shall be handed over to the department before installation of the panel specifying that the panel conform to relevant ISS/ PWD specifications.

Wiring Diagram: - After completion of the work complete diagram showing connections to the various equipment on the board is to be prepared by the contractor and to be submitted to the department along with final bill of the work. In case contractor fails to supply the diagram amount @ 0.5% of the work executed shall be deducted from the contractor's final bill.

Connection: - Inter connections from bus bar chamber to the different molded case circuit breaker / air circuit breaker should be through solid copper bars of the required capacity duly tinned and insulated for which no extra payment will be made.

LIST OF APPROVED MAKES OF ELECTRICAL ACCESSORIES AND ITEMS.

SR.NO.	NAME OF ITEMS	NAME OF BRANDS.
1	(A)Electrical accessories, Batten Holder, Pendent Holder, Ceiling rose, Bellpush, Switches and sockets etc.(ISI Marked). (B) Modular accessories	Anchor Penta,SSK (PENTA) Acchor(Wood), ABB(Classiq), Lagrand (Mosaic), North West.
2	Bakelite sheet (only white in colour).	Hylem make (ISI marked) as per IS 2036-95
3	MS Conduit pipes.(I.S.I Market)	BEC, NIC, STEEL KRAFTS.
4	Call Bell and Buzzer.	Anchor,Leader,Rider.
5	PVC wires (Copper condutor) (ISI Marked)	Grandlay, Havell's, Kalinga, National, Plaza, ECKO, Bonton.
6	PVC underground cable with aluminium conductor (ISI marked)	Brucab, CCI, Grandlay, Havell's,ICC,ICL Kalinga, National,Plaza.

Contractor

Witness

Executive Engineer

7	HT-XLPE cables with Al. Conductor (ISI Marked).	CCI, Gloster, Havell's, ICC, ICL, Incab, Plaza.
8	LT-XLPE cables with Al. Conductor (ISI Marked).	CCI, (Tropothen-X) Grandlay, Havell's, Incab, ICL, ICC, Plaza.
9	PVC pipe 6Kg. Pressure (ISI Marked).	AKG, Diplast, Kalinga, Polypack.
10	GI pipe and MS pipe (Medium) (ISI Marked)	Hindustan, Jindal, Parkash, Ravindra, Tata.
11	I.C Switches.	Category-A: GE, L&T, Siemens Category-B: (ISI Marked): Havell's, Standard, Zeta, C&S
12	MCB's (ISI Marked).	GE, Havell's, Indo- Kopp, L & T, Load Kontakt, Standard, Siemens, C&S, ABB.
13	Enclosures (Standard Size only).	Makes as per MCB's (But in case of Indo-Kopp it will be Indo-Asian)
14	ELCB's/ RCCB's (ISI Marked).	GE, Havell's, Load Stop, L&T, Siemens,
15	MCCB's	GE, Havell's, L&T, Siemens. Schneider Electric, C&S & ABB.
16	Poles.	Manufactured by any firm as per ISI Marked sectional lengths and strictly according to IS specifications.
17	PVC Tee Joints.	M-Seal.
18	Ceiling fans (Double ball bearings).	Bajaj, Crompton, Khaitan, Orient, Usha.
19	Exhaust Fans (Heavy Duty).	Alstom, Bajaj, Crompton, Khaitan, Orient.
20	Indoor tube light fittings.	Bajaj, Crompton, GE, Philips.
21	Tubes/ Bulbs (ISI Marked).	Bajaj, Crompton, GE, Mysore, Philips.
22	OUTDOOR Street / Flood Light Fittings.	Bajaj, Crompton, GE, Philips.
23	ACB's	GE, L&T, Siemens, Schneider Electric.
24	OCB's & VCB's.	Alstom, Crompton, Siemens.
25	TRANSFORMERS.	Alstom, Bharat Bijlee, Kirloskar, Crompton, NGEF, Voltamp.
26	GENERATORS:	a) Engines: Cummins, Greaves cotton, Kirloskar, Ruston. b) Alternator: Crompton, Jyoti, Kirlosker, NGFC, Stamford,
27	Energy Meter/ Sub Meter.	As per approved list of HVPN.

SECTION-6 (iii)

TECHNICAL CONDITION FOR P.H. ITEMS.

P.H. fixtures.

1. The P.H. fixtures such as seats, urinals, Cistern, Sinks etc. shall be of reputed manufacturers such as Hindustan, Parryware etc. shall be used.
2. The G.I. pipe to be used of 'B' Class of reputed manufacturers such as Jindal, TATA. The weight of pipe per meter shall be as per recommendation of the manufacturers.
3. The P.V.C. pipes shall be I.S.I. marked.
4. The other fixture of C.P. brass as mentioned in the Schedule shall be I.S.I. marked or of reputed manufacturers.
5. The item of H.C.I. as mentioned in the Schedule shall be as per Haryana P.W.D. Specification.
6. In this contract schedule of rates only essential portion of items has been written, for Public Health item, but it will deem to cover only the entire items as fully described in Haryana PWD Schedule of Rates - 1988.
7. The Engineer-in-Charge shall be entitled to order 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 what-so-ever required in his opinion for the purpose of work irrespective of the fact that the quantities are omitted altogether in the schedule to be carried out.

SECTION-7 (i)**Contractor's Labour Regulation****1. Short Title**

These regulations may be called Haryana Public Works Department Contractor's Labour Regulations.

2. Definition

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

- (1) Labour means workers employed by a Public Works Department contractors directly or indirectly through a sub-contractor or other persons of by an agent on his behalf.
- (2) Fair wages means, whether for item or place work, notified at the time of inviting tenders for the work and where such wages have not been so notified the wages prescribed by the Public Works, Department for the district in which the work is done.
- (3) "Wages" shall have the same meaning as defined in the payment of Wages Act 1936 and includes time and place rate wages.

3. Display of notice regarded wages etc.

The contractor shall before he commences his work on contract display and correctly maintain & continue to display and correctly in a clean and legible condition in conspicuous places on the work notice in English and in the Local Language spoken by the majority of the Workers giving the fair wages notified or prescribed by the Haryana Public Works Department and the hours of work for which such wages are earned.

4. Payment of Wages

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

5. Fixation of Wages Periods

- (i) The contractor shall fix the wage periods in respect of which the wages shall be payable.
- (ii) No wage period shall exceed one month.
- (iii) Wages of every workman employed on the contract shall be paid before the expiry of ten days after the last day of the wage period in respect of which the wages are payable.
- (iv) 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 succeeding the one on which his employment is terminated.
- (v) All payment of wages shall be made on a working day.

6. Wages Book and Wages Slip etc.

- (i) 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.

Contractor

Witness

Executive Engineer

- (b) Name of work on which employed.
 - (c) Total numbers of days worked during each wage period.
 - (d) Total amount payable for the work during each wage 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.
- (ii) The contractor shall also maintain a wage slip for each worker employed on the work.
 - (iii) The authority competent to accept the contract may grant an exemption from the maintenance of Wages book and Wage Slips to a contractor who in his opinion may not directly or indirectly employ more than 100 persons in 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 deduction shall be in proportionate to the person 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 PWD may from time to time allow.
- 2.) No fine shall be imposed on a worker and no deduction for damage or loss be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- 3.) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to half anna 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 fine and of all deductions for damage or loss such Register shall maintain 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 local Indian Language clearly defining acts and commissions for which penalty of fine can be imposed. He shall display such list and maintain it in a clean and legible condition in conspicuous places on the work.

9. Preservation of Books

The wage book, the wage slips and the Register of lines, deductions required be maintained under these regulations shall be preserved for 12 months after the date of last entry made in them.

10. Power of Labour Welfare Officer to make Investigation of Enquiry

Contractor

Witness

Executive Engineer

The Labour Welfare Officer or any person authorized by the 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 three regulations. He shall investigate into any complaint regarding the default made by the contractor or sub-contractor in regard to such provisions.

11. Report of Labour Welfare Officer

The Labour Welfare Officer or any other person authorized aforesaid shall submit a report of the result of his investigations 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 or commission and omission of the labourer with a note that necessary deduction from contractor's will be made and the wages and other dues be paid to the labourers concerned.

12. Appeal against the decision of Labour Welfare Officers

Any person aggrieved by the decision and recommendation of the Labour Welfare Officer or other person so authorized may appeal against 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

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 as may be specified from time to time.

15. Amendment

The Haryana Government may, from time to time and to amend 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.

Executive Engineer,
Provl. Divn. No.2
PWD(B&R) Branch Rohtak

SECTION-7 (ii)

Contractor

Witness

Executive Engineer

FAIR WAGES CLAUSES

FAIR WAGE CLAUSES

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

EXAMINATION :- Fair Wage' means wage whether for time of piece work notified from time to time for the area and where such wages have not been so notified the wages specified by the Public Works Department, B & R Branch Haryana for the district in which the work is done.

- (b) The contractor shall not withstanding the provisions of any agreement to the contrary, caused to be paid fair wages to labour, 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 labour directly or indirectly employed on the works for the performances of the contractor's part on this agreement the contractor shall comply with or cause to be complied with the Haryana PWD Contractor's Labour's 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 unauthorized made maintenance of wage register wage book, wage slip, publication of wages and other terms of employment inspection and submission of periodical returns and all other matters of a lime nature.
- (d) The Executive Engineer or Sub Divisional Engineer concerned shall have the rights to deduct, from the moneys 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 conditions of the contract for benefit of the workers, non payment of wages or deductions made from his or their wages, which are not justified by terms of the contract for non observance of the regulations referred to in clause (c) above.
- (e) Vis-à-vis the Haryana Government, the contractor shall be primarily liable for all payments to be made under and the observance of the regulations aforesaid without prejudice to his right to claim indemnity from his sub contractors.
- (f) The regulations shall be deemed to be a part of this contract and any branch there shall be deemed to be branch of this contract.

Executive Engineer,
Provincial Division No.2
PWD B&R Branch Rohtak

SECTION-7 (iii)**RULES FOR PROTECTION OF HEALTH & SANITARY ARRANGEMENTS****Rules for the Protection of Health and Sanitary Arrangements for Workers Employed by the Haryana Public Works Department or its Contractors**

The Contractor shall at his own expense provide or arrange for the provision of foot wear for any labour doing cement mixing work (the contractor has undertaken to execute under this contract) to the satisfaction of the Engineer – in – charge and on his failure to do so Government shall be entitled to provide the same and recover the cost thereof from 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 proceeding month and the first half of the current month respectively (i) the number of labourers employed by him on the work (ii) their working hours (iii) the wages paid to them (iv) the accident that occurred during the said forthright 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 Government a sum not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Executive Engineer shall be final in 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 follow: -

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 (i) In case of delivery, leave pay during maternity leave will be at the rate of the woman'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 which ever is greater.

(ii) In case of miscarriage, Leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work 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 excepted delivery within 4 weeks proceeding the date on 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 workplaces it shall be placed under the charge of a responsible person who shall be readily available during the working hours.

(b) All 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 compo under.

(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 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 place some conveyance facilities 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 URINALS

There shall be provided within the precinct of every work places, 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 Shades
(a) Where the number of persons does not exceed 50	2
(b) Where the number of persons exceeding 50 but does not exceeds 100	3
(c) For every additional 100	3 per 100

In particulars cases the Executive Engineer shall have the powers to vary the scale where necessary.

LATRINES AND URINALS FOR WOMEN

If women are employed, separate latrines and urinals screamed 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 women shall also be exhibited at the entrance of latrine for each sex. There shall be adequate supply of water close to latrines.

LATRINES AND URINAL

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

The inside walls 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 aggranged 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 work place 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 OR SHELTER DURING REST:

Contractor

Witness

Executive Engineer

At every work place at which 50 or more women workers are ordinary 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 bed room. The hut shall not be constructed on a lower standard than the following :-

- (i) Thatched roofs.
- (ii) Mud floors and walls.
- (iii) Plants spread over mud floor and covered with matting.

The huts be 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 day attendance. Sanitary, utensils shall be provided to the satisfaction of Health Office of the area concerned. The use of the hut shall be restricted to children, their attendant and mothers of the children.

CANTEEN:

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

GENERAL RULES AS TO SCAFFOLDS :

- (i) Suitable scaffolds shall be provided for all 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 adequate experience
 - in this kind of work.
 - (c) All scaffolds and appliances connected there with and ladder shall :-
 1. be of sound material.
 2. be of adequate strength having regard to the load and strains to which they will be subjected 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 there of 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 workman, 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 requirement of the articles.
 9. Working platforms gangways and stairways shall.
 - (a) be so constructed that no part of the road is covered.

Contractor

Witness

Executive Engineer

- (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 obstruction.
- (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 platform and every gangway shall have adequate width, and Every opening in the floor of a building or in working platforms shall except for the time and to the extent required to allow 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 of regulations suitable precautions shall be taken to prevent the 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 approach there to shall be adequately lighted.
3. Every ladder shall be securely fixed of such length as to provide secure hand held and foot at every position at which it is used.
4. Adequate precautions shall be taken to prevent danger from electrical equipment.
5. No material on the site shall be so 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 and available for use of the persons employed on the site be maintained in condition suitable for immediate use.
- (2) The worker shall be required to use the equipment thus provided and the employed shall take adequate steps to ensure proper use of the equipment by these concerned.

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

Executive Engineer,
Provincial Division No.2
PWD &R Branch Rohtak

SECTION-8

(Drawings)

Architectural and Structural Drawings can be seen or taken from the office of Executive Engineer, Provincial Division No.2, PWD B&R Branch Rohtak

Executive Engineer,
Provincial Division No.2
PWD &R Branch Rohtak

SECTION-9

Schedule of bill of quantities of Civil, EI & Public Health Works

Contractor

Witness

Executive Engineer

**General abstract of cost for Construction of Admn. & Workshop Block
in ITI at Village Kansala in Rohtak District**

Sr No	Description of Item	Amount
1	Civil Work	Rs.411.33 Lacs
2	PH Work	Rs.6.40 Lacs
3	Electrical Work	Rs.5.61 Lacs
	Total	Rs.423.34 Lacs
	Say Rs.	Rs.423.35 Lacs

**Executive Engineer,
Provincial Division No. II,
PWD B&R Branch Rohtak**

DNIT for Construction of Admn. & Workshop Block in ITI at Village Kansala in Rohtak District					
Approximate Cost:		Earnest Money		Time Limit	
Sr No	Quantity		Description of Item	Rate	Unit
1	2289.30	Cum	Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2 metres 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 metres. (H.S.R. 6.6)	11.08 (Rupees Eleven and paisa eight only)	Cum (Per cubic metre)
2	528.37	Cum	Earth filling under floors with surplus soil, excavated from foundation and taken only from outside the building plinth, in 15 cm layers including ramming watering and consolidating lead upto 30 metres. (HSR 6.13(a))	3.43 (Rupees three and paisa forty three only)	Cum (Per cubic metre)
3	388.18	Cum	Cement concrete 1:8:16 with stone aggregate 40mm nominal size in foundation and plinth.(HSR 10.28)	318.65 (Rupees Three hundred eighteen and Paisa sixty five only)	Cum (Per cubic metre)
4	71.61	Cum	Cement Conrete 1:6:12 with stone aggregate 40mm nominal size in foundation and plainth (HSR 10.32).	348.25 (Rupees Three hundred forty eight and paisa twenty five only)	Cum (Per cubic metre)
5	396.28	Cum	Cement concrete 1 : 4 : 8 with stone aggregate 40 mm Nominal size in foundation and plinth. (HSR 10.39)	403.10 (Rupees four hundred three and Paisa ten only)	Cum (Per cubic metre)
6			Cement concrete 1:2:4 with stone aggregate 20 mm nominal size First storey upto 4 metres above plinth level.(HSR 10.59)		
a	1.62	Cum	First Storey	621.85 (Rupees Six hundred twenty one and paisa eighty five only)	Cum (Per cubic metre)
b	1.35	Cum	Second Storey	624.40 (Rupees Six hundred twenty four and paisa forty only)	Cum (Per cubic metre)
7			Cement concrete 1:2:4 with stone aggregate 20 mm nominal size for reinforced concrete work in shelves excluding steel reinforcement but including centering and shuttering laid in position complete in all respects. (HSR 10.81)		

Contractor

Witness

Executive Engineer

a	9.34	Cum	First Storey	947.70 (Rupees nine hundred forty seven and paisa seventy only)	Cum (Per cubic metre)
b	7.90	Cum	Second Storey	955.00 (Rupees nine hundred fifty five only)	Cum (Per cubic metre)
8			Cement concrete 1:1½:3 with stone aggregate 20 mm nominal size for reinforced concrete work in slabs with inclination not exceeding 25 degree with horizontal, excluding steel reinforcement but including centering and shuttering laid in position complete in all respects. (HSR 10.82 + 10.95 a)		
a	272.19	Cum	First Storey	1084.80 (Rupees one thousand eighty four and paisa eighty only)	Cum (Per cubic metre)
b	217.21	Cum	Second Storey	1092.10 (Rupees one thousand ninety two and paisa ten only)	Cum (Per cubic metre)
c	6.59	Cum	Third Storey	1099.40 (Rupees one thousand ninety nine and paisa forty only)	Cum (Per cubic metre)
9			Cement concrete 1:1½:3 with stone aggregate 20 mm nominal size for reinforced concrete work for walls exceeding 20 cm 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. (HSR 10.86 + 10.95 a)		
a	379.36	Cum	First Storey	1188.75 (Rupees One thousand one hundred eighty eight and paisa seventy five only)	Cum (Per cubic metre)
b	126.41	Cum	Second Storey	1196.05(Rupees One thousand one hundred ninety six and paisa five only)	Cum(Per cubic metre)
c	5.76	Cum	Third Storey	1203.35 (Rupees One thousand two hundred three and paisa thirty five only)	Cum (Per cubic metre)

10			Cement concrete 1:1½:3 with stone aggregate 20 mm nominal size for reinforced concrete work in fascias parapets and other thin vertical sections, not covered by item nos 10.82, 10.86 to 10.88 of HSR not exceeding 10 cm thickness excluding steel reinforcement but including centering and shuttering laid in position complete in all respects. (HSR 10.89 + 10.95 a)		
a	11.70	Cum	First Storey	1708.95 (Rupees one thousand seven hundred eight and paisa ninety five only)	Cum (Per cubic metre)
b	1.28	Cum	Second Storey	1716.25 (Rupees one thousand seven hundred sixteen and paisa twenty five only)	Cum (Per cubic metre)
c	11.78	Cum	Third Storey	1723.55 (Rupees one thousand seven hundred twenty three and paisa fifty five only)	Cum (Per cubic metre)
11	1433.44	Cum	Cement concrete 1:1½:3 with stone aggregate 20 mm nominal size for reinforced concrete work in footings, strips, foundations, beams, rafts, pedestals and approach slabs of bridges etc. excluding steel reinforcement but including centering and shuttering laid in position complete in all respects. (For works upto 1.5 metres below ground level) (HSR 10.90 + 10.95 a)	774.00 (Rupees seven hundred seventy four only)	Cum (Per cubic metre)
12	14.30	Cum	Precast cement concrete 1:2:4 with stone aggregate 20mm nominal size in kerbs and the like items, finished smooth with 6mm thick cement plaster 1:3 on exposed surface including form work, placing and fixing in position, complete at the grouted level or in first storey. (HSR 10.77)	942.50(Rupees nine hundred forty two and paisa fifty only)	Cum(Per cubic metre)
13	19.22	Cum	Precast cement concrete 1:2:4 with stone aggregate 20 mm nominal size in tiles and channels and the like items, finished smooth with 6 mm thick cement plaster 1:3 on exposed surface including form work, placing and fixing in position, complete at the ground level or in first storey. (HSR 10.78)	1025.15 (Rupees one thousand twenty five and paisa fifteen only)	Cum (Per cubic metre)
14	411.10	Cum	Cement concrete 1:1 1/2:3 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 (HSR 10.132 + 10.95 a)	729.30 (Rupees seven hundred twenty nine and paisa thirty only)	Cum (Per cubic metre)
15	119.43	Cum	First Class brick work laid in cement sand mortar 1:6 in foundation and plinth. (HSR 11.2)	393.45 (Rupees three hundred ninety three and paisa forty five only)	Cum (Per cubic metre)
16	310.32	Cum	First class bricks work laid in cement sand mortar 1:4 in foundation and plinth (HSR 11.4).	424.60 (Rupees four hundred twenty four and paisa sixty only)	Cum (Per cubic metre)
17			First class brick work laid in cement sand mortar 1:6 in first Storey upto 4 metres above plinth level. Extra for additional storey upto 4 metres above the top of structural roof of lower storey (HSR 11.7 + 11.41)		

Contractor

Witness

Executive Engineer

a	325.70	Cum	First Storey	414.45 (Rupees four hundred fourteen and paisa forty five only)	Cum (Per cubic metre)
b	324.37	Cum	Second Storey	422.70 (Rupees four hundred twenty two and paisa seventy only)	Cum (Per cubic metre)
c	24.10	Cum	Third Storey	430.95 (Rupees four hundred thirty and paisa ninety five only)	Cum (Per cubic metre)
d	2.67	Cum	Fourth Storey	439.20 (Rupees four hundred thirty nine and paisa twenty only)	Cum (Per cubic metre)
18	304.36	Cum	First class brick work laid in Cement sand Mortar 1:4 in first storey upto 4 meters above plinth level. (HSR 11.9)	445.60(Rupees four hundred forty five and paisa sixty only)	Cum(Per cubic metre)
19			11.43 cm. thick brick wall laid in cement sand mortar 1:4 in super structure (HSR 11.48(a))		
a	123.45	Sqm	First Storey	55.10 (Rupees fifty five and paisa ten only)	Sqm (Per Square metre)
b	277.17	Sqm	Second Storey	56.05 (Rupees fifty six and paisa five only)	Sqm (Per Square metre)
20	225.78	Mtr	Dressed or moulded three brick cornice laid in cement sand mortar 1:4 including 12 mm thick cement plaster 1:4 or pointing, as required. (HSR 11.76)	27.69 (Rupees Twenty seven and paisa sixty nine only)	Mtr (Per metre)
21			Terracing consisting of tiles 22.86 cmx 11.43 cm x 3.81 cm. laid over 87.50 mm mud filling on a layer of 25mm mud plaster and an other layer of mud mortar for laying the tiles, including two coats of bitumen laid hot at 1.65 Kg. per sqm. on top of RCC slab including grouting with cement sand mortar 1:3 and top surface to be left clean etc (HSR 13.13).		
a	447.36	Sqm	First Storey	52.95 (Rupees Fifty two and paisa ninety five only)	Sqm (Per Square metre)
b	1551.66	Sqm	Second Storey	53.95 (Rupees Fifty three and paisa ninety five only)	Sqm (Per Square metre)
c	37.39	Sqm	Third Storey	54.95 (Rupees Fifty four and paisa ninety five only)	Sqm (Per Square metre)

22	30.00	Nos.	Top Khurra 0.6mx 0.6m for rains water pipe in 25mm thick cement concrete 1:2:4 over 50mm thick cement concrete 1:8:16 (HSR 13.50).	12.30 (Rupees twelve and paisa thirty only)	Each
23	30.00	Nos.	Bottom Khurra on ground 1.2mx0.6m consisting of brick on edge laid in cement mortar 1:3 over 75mm cement concrete 1:8:16 including 12mm thick cement plaster 1:3 (HSR 13.57)	64.30(Rupees sixty four and paisa thirty only)	Each
24	300.05	Mtr	Cement concrete 1:2:4 gola 10 cm x 10 cm quadrant along junction of roof with parapet wall finished smooth, where specially specified (HSR 13.64)	5.35 (Rupees five and paisa thirty five only)	Mtr (Per metre)
25			Providing and fixing PVC rain water pipe 6Kg. Pressure of ISI mark in cement mortar during masonry work. (HSR 13.89)		
a	36.58	Mtr	(a) 100mm dia PVC pipe 6Kg. Pressure. (HSR 13.89 a) Supreme or Finolex only.	182.00 (Rupees One hundred eighty two only)	Mtr (Per metre)
b	164.59	Mtr	(b) 150mm dia PVC pipe 6Kg. Pressure. (HSR 13.89 b) Supreme or Finolex only.	336.65 (Rupees three hundred thirty six and paisa sixty five only)	Mtr (Per metre)
26			Providing and fixing PVC Bend ISI. (HSR 13.90) Supreme or Finolex only.		
a	8.00	Nos.	(a) 100mm dia PVC Bend. (HSR 13.90 a) Supreme or Finolex only.	97.40 (Rupees ninety seven and Paisa forty only)	Each
b	20.00	Nos.	(b) 150 mm Dia. (HSR 13.90 b) Supreme or Finolex only.	165.40 (Rupees one hundred sixty five and paisa forty only)	Each
27	1899.07	Sqm	Base course of floors consisting of 100mm thick cement concrete 1:8:16 and 100mm sand or stone filling. (HSR 14.1)	36.95 (Rupees thirty six and paisa ninety five only)	Sqm (Per square metre)
28	1513.94	Sqm	Screed of 50 mm thick cement concrete 1:8:16 to be laid below the topping (HSR. 14.4)	15.35 (Rupees fifteen and paisa thirty five only)	Sqm (Per square metre)
29	23.87	Sqm	18 mm thick grey polished skirting or dado consisting of bottom layer of 15 mm thick cement sand plaster 1:3 and finished with 3 mm thick topping of neat cement rubbed and polished including rounding off junction with floors. (HSR. 14.18)	46.30 (Rupees Forty six and paisa thirty only)	Sqm (Per square metre)

Contractor

Witness

Executive Engineer

30			Terrazzo topping rubbed and polished to a granolithic finish under layer 34 mm thick cement concrete 1:2:4 and top layer as specified below:- (a) with grey cement (i) 40mm thick with top layer 6mm thick with white marble makrana/ Narnaul chipping of size 1mm to 9mm laid in cement marble powder mix in the ratio of 3:1 (3 parts of cement and one part of marble powder) by weight in proportion of 4:7 (4 parts of cement marble powder mix :7 parts of white marble chip) by volume complete. (HSR 14.25 a) (i)		
a	646.76	Sqm	Second Storey	73.50 (Rupees Seventy three and Paisa fifty only)	Sqm (Per square metre)
31			Terrazzo skirting or dado or on wall face rubbed and polished to a granolithic finish under layer 12mm thick cement coarse sand plaster 1:3 and top layer as specified (a) with grey cement (i) 18mm thick with top layer 6mm thick with white marble Makrana/ Narnaul chipping of size 1 mm to 4mm laid in cement marble powder mix in the ratio of 3:1 (3 parts of cement and one part of marble powder) by weight in proportion of 4:7 (4 parts of cement marble powder mix : 7 parts of white marble chips) by volume complete. [HSR 14.26 a (i)]		
a	17.73	Sqm	Second Storey	71.30 (Rupees Seventy one and paisa thirty only)	Sqm (Per square metre)
32			Kotah Stone flooring minimum 25mm thick in any pattern as specified over 20mm thick base of cement coarse sand mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing (HSR 14.62).		
a	342.06	Sqm	First Storey	201.95 (Rupees two hundred one and paisa ninety five only)	Sqm (Per square metre)
b	376.57	Sqm	Second Storey	202.25 (Rupees two hundred two and paisa twenty five only)	Sqm (Per square metre)
c	29.91	Sqm	Third Storey	202.55 (Rupees two hundred two and paisa fifty five only)	Sqm (Per square metre)
33			Kotah stone 20 mm thick in skirting risers of steps, dados pillars and wall facing (lining) in any patterns as specified pillars laid on 12 mm thick cement coarse sand plaster 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing including labour for fixing cramps dowels and pins etc. (HSR 14.66)		

a	42.02	Sqm	First Storey	237.00 (Rupees two hundred thirty seven only)	Sqm (Per square metre)
b	41.02	Sqm	Second Storey	237.30 (Rupees two hundred twenty seven and paisa thirty only)	Sqm (Per square metre)
c	2.48	Sqm	Third Storey	237.60 (Rupees two hundred twenty seven and paisa sixty only)	Sqm (Per square metre)
34	1178.98	Sqm	50 mm thick ironite floor consisting of 40 mm thick cement concrete 1:2:4 base and top layer 6 mm thick laid with one part of ironite and grey cement mixed together in the ratio of 1:4 by weight to 2 parts of hard granite chippings 6 mm gauge by volume, finished smooth with hard rubbing.(HSR. 14.74)	71.80 (Rupees Seventy one and paisa eighty only)	Sqm (Per square metre)
35	2242.11	Mtr	Providing and fixing aluminium strips 1.6 mm thick complete with nails in floors (a) 40 mm wide. (HSR 14.77 a)	9.25 (Rupees Nine and paisa twenty five only)	Mtr (Per metre)
36	405.40	Sqm	Fixing Vitrified Tiles of any size of approved make in flooring laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note: - Tile shall be premium quality (1st quality) of reputed manufacturer like NITCO, KAJARIA, SOMANI, ORIENT & JONHONSONS. (HSR 14.89) (excluding cost of tile). Tiles will be supplied by the Deptt.	188.80 (Rupees one hundred eighty eight and paisa eighty only)	Sqm (Per square metre)
37	28.26	Sqm	Fixing Vitrified Tiles of any size of approved make in skirting/ dado laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. Note: - Tile shall be premium quality (1st quality) of reputed manufacturer like NITCO, KAJARIA, SOMANI, ORIENT & JONHONSONS. (HSR 14.90) (excluding cost of tile). Tiles will be supplied by the Deptt.	188.80 (Rupees one hundred eighty eight and paisa eighty only)	Sqm (Per square metre)
38	225.22	Sqm	Fixing Ceramic Tiles/ anti skid tiles of any size or above size of approved make in floors, laid in any pattern as specified over base of 20mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade to tiles. LRNote: - Tile shall be premium quality (1st quality) of reputed manufacturer like NITCO, KAJARIA, SOMANI, ORIENT & JONHONSONS. (HSR 14.91) (excluding cost of tile). Tiles will be supplied by the Deptt.	188.80(Rupees one hundred eighty eight and paisa eighty only)	Sqm(Per square metre)
39	318.16	Sqm	Providing & fixing 1st quality ceramic glazed wall tiles confirming to I.S. 15622 (thickness to be specified by the manufacturer) of approved make in all colors, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 coarse and jointed with grey cement slurry, including pointing in white cement mixed with pigment of matching shades complete. (a) Size of ceramic Glazed Tiles 200 x 300mm. (HSR 14.92 a)	141.60 (Rupees One hundred forty one and paisa sixty only)	Sqm (Per square metre)
40			12mm thick cement plaster 1:6 on walls. (HSR 15.7)		

Contractor

Witness

Executive Engineer

a	1918.23	Sqm	First Storey	10.65 (Rupees ten and paisa sixty five only)	Sqm (Per square metre)
b	2041.27	Sqm	Second Storey	10.83 (Rupees ten and paisa eighty three only)	Sqm (Per square metre)
c	132.70	Sqm	Third Storey	11.01 (Rupees Eleven and Paisa one only)	Sqm (Per square metre)
d	15.15	Sqm	Fourth Storey	11.19 (Rupees Eleven and Paisa nineteen only)	Sqm (Per square metre)
41			15 mm thick cement plaster 1:6 on walls on the rough side of single on half brick wall. (HSR 15.12)		
a	4125.25	Sqm	First Storey	13.10 (Rupees thirteen and paisa ten only)	Sqm (Per square metre)
b	1686.43	Sqm	Second Storey	13.28 (Rupees thirteen and paisa twenty eight only)	Sqm (Per square metre)
c	147.76	Sqm	Third Storey	13.46(Rupees thirteen and paisa forty six only)	Sqm(Per square metre)
d	19.75	Sqm	Fourth Storey	13.64 (Rupees Thirteen and Paisa sixty four only)	Sqm (Per square metre)
42			10mm thick cement plaster 1:4 under side of ceiling (HSR 15.52)		
a	2851.41	Sqm	First Storey	12.65 (Rupees twelve and paisa sixty five only)	Sqm (Per square metre)
b	2466.28	Sqm	Second Storey	12.83 (Rupees twelve and paisa eighty three only)	Sqm (Per square metre)
c	270.93	Sqm	Third Storey	13.01 (Rupees thirteen and paisa one only)	Sqm (Per square metre)

43	1332.14	Sqm	Skirting joints in lime or cement on brick and tile walls (HSR 15.69 a) LR	4.10 (Rupees four and paisa ten only)	Sqm (Per square metre)
44	978.68	Sqm	Preparation of ply wood surface for painting including sand papering the surface and applying filling with approved quality filler consisting of white lead, linseed oil, varnish and chalk mitti including finishing the surface to required finish complete.(HSR 16.1) LR	1.80 (Rupees One and paisa eighty only)	Sqm (Per square metre)
45	854.02	Sqm	Applying pink primer or aluminum priming coat on wood work including preparation of surface knotting and stopping etc. (HSR 16.2) (LR)	1.35 (Rupees one and paisa thirty five only)	Sqm (Per square metre)
46	854.02	Sqm	Painting two coats excluding priming coat with synthetic enamel paint in all shades on new wood work or metallic or plastered or concrete surfaces to give an even shade (HSR 16.3) (LR)	2.40 (Rupees two and paisa forty only)	Sqm (Per square metre)
47	178.21	Sqm	Applying priming coat with metal primer on new steel or iron work including preparation of surface (HSR 16.9) (LR)	1.10 (Rupees one and paisa ten only)	Sqm (Per square metre)
48	178.21	Sqm	Painting two coats excluding priming coat with ready mixed paint for metallic surface in all shades on new steel or iron work (HSR 16.17) (LR)	2.40(Rupees two and paisa forty only)	Sqm(Per square metre)
49	4197.88	Sqm	Applying priming coat with cement primer in all shades on newly plastered or concrete exterior surfaces. (HSR 16.25) LR	0.90 (Rupees nil and paisa ninety only)	Sqm (Per square metre)
50	90.51	Sqm	Painting two coats with ready mixed exterior paint in all shades on newly plastered or concrete surface of walls (HSR 16.26) LR	2.40 (Rupees two and paisa forty only)	Sqm (Per square metre)
51	8115.77	Sqm	White washing three coats (HSR 16.48)	1.25 (Rupees one and paisa twenty five only)	Sqm (Per square metre)
52	3452.04	Sqm	Distemping with washable oil bound distemper (of approved manufacture) two coats excluding priming coat on new work.(HSR-16.57) LR	2.55 (Rupees Two and paisa fifty five only)	Sqm (Per square metre)
53	1332.14	Sqm	Finishing walls with exterior decorative cement based paint such as snowcem, rubbiacem etc on new work, two coats to give an even surface (HSR 16.61) LR	2.30 (Rupees two and paisa thirty only)	Sqm (Per square metre)
54	4107.37	Sqm	Providing two coats of exterior acrylic emulsion paint (b) 1st quality. (HSR 16.79 b) LR	6.30 (Rupees Six and paisa thirty only)	Sqm (Per square metre)

Contractor

Witness

Executive Engineer

55	53.75	Sqm	Providing & fixing cup board shutters of commercial hard wood such as hillock, champ, chikrassy and chaplash, etc (non coniferous timber other than teak conforming to IS specification no. 1003, kiln seasoned) excluding chowkat but with commercial plywood panels or faced on one side including iron hinges and screws fixed in position (excluding the cost of handles, tower bolts, hasp with stample, but including the labour for fixing the same – (b) 25 mm thick. (HSR 17.32 b - note (i) of 17.18)	189.05 (Rupees One hundred eighty nine and Paisa five only)	Sqm (Per square metre)
56	0.33	Cum	Providing and fixing wooden handrail of required shape and design with necessary screws, including labour, for rounding, vertical and horizontal bends and curves complete fixed in position. (b) Commercial hard wood, such as hollock, champ, chikrassy and chaplash etc. (Non-coniferous timber other than teak, conforming to I.S. specification No.1003, kiln-seasoned) [HSR 17.69 (b)]	10238.00 (Rupees Ten thousand two hundred thirty eight only)	Cum (Per cubic metre)
57	376.26	Sqm	Cost of aluminium fitting cokmplte for doors and windows, such as tower bolts, handles, etc., and screws for these fittings (excluding sliding bolt)-. (a) for single lead shutter. (HSR 17.72 a)	17.80(Rupees Seventeen and paisa eighty only)	Sqm(Per square metre)
58	12.00	Nos.	Providing and fixing 30 cm long aluminium finger plate, 65mm x 1.6 mm, including necessary screws, etc., complete. (HSR 17.86)	27.45 (Rupees Twenty seven and paisa forty five only)	Each
59	168.92	Sqm	Factory- manufactured paneled door or glazed window shutters of commercial hard wood such as hillock, champ, chikrassy and chaplash etc. (non coniferous timber other teak, conforming to IS specification No. 1003, kiln seasoned) with 100mm wide vertical styles 150mm wide lock rail 200mm wide bottom rail and 100mm wide other rails, with panels of 15 mm thick , tongued and grooved of commercial hard wood and including cost of iron hings, screws, chocks/cleats, stops, nails etc., complete fixed in position (excluding the cost of any fittings, other than specified above, but including labour for fixing the same in position) (b) 35mm thick (HSR 17.90(b) - note (i) of 17.18)]	424.15 (Rupees four hundred twenty four and paisa fifteen only)	Sqm (Per square metre)
60	153.60	Sqm	Factory manufactured solid flush door shutters, with block board core as per IS 1659-1969 bonded with water proof type phenol formaldehyde synthetic resin, hot pressed, confirming to IS 2202 part I and II, fixed in position, including iron hinges, screws, chocks/cleats and stops, etc (excluding the cost of any fittings other than specified above, but including labour for fixing the same in position. (a) Commercial veneering with verticle grains or cross bands and face venner on both sides commercial facing with laminated core and lipped edges: - (iii) 35mm thick (HSR 17.93 iii - note (i) of 17.18) Make: Jawala, Ujala, Duro Kit Ply, Green.	436.15 (Rupees four hundred thirty six and paisa fifteen only)	Sqm (Per square metre)
61	79.89	Qtl.	Wrought iron and mild steel (using angles, flats, square bars, tee and channels)ladders, grills, grating frames, window guards, iron doors openable or fixed stair case or 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. (HSR 18.12)	1040.35 (Rupees one thousand forty and paisa thirty five only)	Qtl. (Per Quintal)

62	6.44	Qtl.	Stair case railing of 40mm internal dia GI pipe class 'B' as per IS No.1239 as hand rail using flats and square bars as supporting numbers and base plate welded as per design specified including cutting welding rods and complete fixed in position [(HSR 18.13 (a)]	1157.00 (Rupees one thousand one hundred fifty seven only)	Qtl. (Per Quintal)
63	37.97	Sqm	Supplying and fixing rolling shutters of approved make, M.S. Laths, interlocked together through their entire length, and jointed together, at the end, by end locks mounted on specially designed pipe shaft with brackets, side guides, 27.5 cm long wire spring grade no.2 and arrangement for inside and out-side locking, with push and pull operation complete, including top cover 0.80 mm thick (payment is to be made for the exact size of opening where rolling shutter is fixed) : - (b) with 80mm x 1.25mm M.S. Laths (HSR 18.18 b)	401.75 (Rupees Four hundred one and paisa seventy five only)	Sqm (Per square metre)
64	3423.58	Qtl.	Fe -500 EQR TMT steel bars for RCC works where not included in the complete rate of RCC including bending , binding and placing in position complete (HSR 18.22)	917.05(Rupees nine hundred seventeen and paisa five only)	Qtl.(Per Quintal)
65	354.95	Sqm	Supplying and fixing glass panes i/c special metal sash putty of approved make (b) Glass panes 4mm thick, exceeding 40sq. dm area. (HSR 18.30.b)	115.40 (Rupees one hundred fifteen and paisa forty only)	Sqm (Per square metre)
66	2288.32	Mtr	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, locknutch, 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 cost of cement concrete 1:3:6 for filling in the frame, and cement concrete 1:3:6 for lugs complete. (b) Door and window frame of size 76mm x 38mm with 35mm wide single rebate. (HSR 18.34 b)	58.60 (Rupees fifty eight and paisa sixty only)	/Mtr (Per metre)
67	3452.04	Sqm	Preparation of Plastered surfaces for oil bound distemper including sand preparing the surface, applying one coat of linseed and filling with apporoved quality filler consiting of white lead, linsed oil, varnish and chalk mitti including finishing the surface to required finish complete. (HSR 16.52) LR	3.80 (Rupees three and paisa eighty only)	Sqm (Per square metre)
68	158.68	Sqm	Providing & fixing 16 to 18mm thick white marble in any pattern as specified laid on 12mm thick cement coarsed sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of marble including rubbing and polishing, including labour for fixing cramps, pins and dowels etc. complete in all respect as per approval of the Engineer-in-charge of the work. (N.S.)	Rate to be quoted by the agency	Sqm (Per square metre)
69	396.28	Cum	Providing & laying of crasher sand mix with 4% hydrated lime complete in all respect as per approval of the Engineer-in-Charge of the work. (N.S.)	Rate to be quoted by the agency	Cum (Per cubic metre)
70	2601.70	Sqm	Providing & applying foundation treatment with the specifications of Macfalt Polythin on P.C.C. 1:4:8 & on steps of brick work both side complete in all respect as per approval of the Engineer-in-Charge of the work. (N.S.)	Rate to be quoted by the agency	Sqm (Per square metre)

Contractor

Witness

Executive Engineer

71	131.67	Mtr	Providing & fixing of aluminium sheet 3mm thick 8" wide complete in all respect as per approval of the Engineer-in-charge of the work. (N.S.)	Rate to be quoted by the agency	Sqm (Per square metre)
72	3926.37	Cum	Earth work (Tibba sand) in under floor involving excavation of earth in all type of soil or rocks where earth is brought from out side from 5Km and above lead & lift to the site of work including laying in 25cm layers for compaction including cost of watering and rolling and compensation of earth taken from private land, dressing of banks and side slopes to given site levels and templates after breaking of clods. The complete rate quoted by the contractor shall take in to account all allowances for labour, hardness, witness and all kinds of carriage, loading, unloading, total lead and lift of soil involved to the entire satisfaction of Engineer-in-Charge confirming fully to Haryana PWD specification 1990 1st addition including subsequent agenda and corrigenda issued from time to time till the date of final payment (N.S.)	Rate to be quoted by the agency	Cum(Per cubic metre)
73	44378.93 Item at sr. no. 73 deleted.	Cum	Earth work (Tibba sand) in campus with an Av. lead of 5Km. And above, including excavation of earth in all kind of soil or rocks laid in 25 Cm. layer including dressing the bank, and side slope to given level and corner after breaking of clouds, including cost of compaction of earth, watering, rolling, and compensation of earth taken from Private land. The complete rate quoted by the Contractor would be taken into Account all allowances, for labour hardness, witness total lead and lift of soil and to entire satisfaction of Engineer-In-Charge comforming fully to Haryana PWD specification book 1990 First adition with up to date correction slip, till the date of final Payment. (N.S.)	Rate to be quoted by the agency	Cum (Per cubic metre)

**Head Draftsman,
Provincial Division No. II,
PWD B&R Branch, Rohtak**

**Executive Engineer,
Provincial Division No. II,
PWD B&R Branch, Rohtak**

CONDITION OF EARTH WORK

- 1 The measurement of earth will be made on the basis of cross sections. The cross sections of the existing ground level will be recoded at an interval of not exceeding 15 Meter and to be accepted by the Society/ Contractor before the start of the work. The levels so recorded shall be considered final and building on the Contractor/ Society.
- 2 Contractor will set-up his own lab. Or got the sample tested as required in MORTH specification. All necessary field testing such as D.B.D. will be checked at site to ensure the required compaction as per specification.
- 3 The earth will be executed and proceeded to in such manner that no hindrance/ inconvenience of any kind is caused to the traffic. The executed earth work would be maintained by the contractor/ society till the completion of total work to the satisfaction Engineer-In-Charge. No charges or compensation of any kind will be payable in this account to the contractor/ society. The damaged if any caused during the running traffic or through any other reason what's over may be, will be set right by the contractor/ society at his own cost and nothing extra will be payable on this account to the contractor/ society. The Engineer-In-Charge will be entitled to get the need ful done at risk and cost of contractor/ society without giving any notice in case the contractor/ society fails to observe his obligations stated here.
- 4 The recovery will be made from the contractor/ society @ Rs. 35/- (Rs. Thirty five only) per hundred cum plus approved ceiling premium of the prevailing market rate at the time of execution which ever is more in case the contractor/ society does not pay the compensation of earth to the owner of the land from where the earth has been taken by him. The production and submission of receipt of owner of land in taken of acknowledgement the receipt of the compensation amount dully verified by the Sarpanch , Patwari and Tehsildar to the satisfaction of Engineer-In-Charge would only dissolve the said deduction of compensation amount from the contractor/ society.

Executive Engineer,
Provincial Division No. 2,
PWD B&R Branch, Rohtak

Contractor

Witness

Executive Engineer

DNIT

Name of Estimate:-Providing estate & Internal W/S & Sewerage & Sanitary Installation in I.T.I. Kansala Distt. Rohtak

Name of Work:-"Laying of G.I. pipeline / H.C.I. pipeline installation of Sanitary fixture and all other works contingent thereto."

Sub Work No. 2

App. Cost Rs. 6.40 Lacs

Sanitary Instalation

S. No.	Sch. Item No.	Description	Qty.	Unit	Rate (in Rs.)	Amt (in Rs.)	CP	Amt involve d due to CP (In Rs.)	Total (in Rs.)	
1	2	3	4	5	6	7	8	9	10	
Internal water supply										
1	28.22	Drilling and tapping cast iron pipeline of all diamtr. And Screwing in ferrule and connections	4	Nos	Nos.	24.60	98	250%	246	344
	a)	15 mm I/d								
2	28.24	Cutting holes upto 23 cm through Stone masory or brick work in cement walls for pipes and making goods including repointing replastering and finishing according to existing finish where required.	10	Nos	Nos.	14.00	140	250%	350	490
	a)	11.43 cm thikness of wall								
3	30.119	Providing and fixing HDPE WATER STORAGE TANKS of syntax, displast , o.k. supreme make with conver/ lids marked with IS: 12701 on roof top of buildings including cost of hoisting and placing in position , making connections with inlet and outlet pipes.								
	I	200 Liters	2	Nos.	Nos.	1134.00	2268	0%	0	2268
	II	500 Liters	4	Nos.	Nos.	2682.00	10728	0%	0	10728
						Total	13234		596	13830
Sanitary installation										
1	30.48	Providing anf fixing in position 32 mm dia G.I. Waste pipe embeddeed in wall	15	Nos	Each	98.00	1470	250%	3675	5145
2	30.50	Providing and fixing in position best indian make chromium plated brass bottle trap 32 mm dia meter	15	Nos	Each	92.00	1380	250%	3450	4830

3	30.67	Providing and fixing in position best indian make paper holders fixed into including cutting and making good the walls etc								
	a)	C.P. brass	9	Nos	Each	27.50	248	250%	619	866
4	30.68	Providing and fixing in position best indian make towel rails fixed including cutting and making good the wall etc								
	a)	25 mm dia C.P. brass adjustable i)600mm long	15	Nos	Each	67.00	1005	250%	2513	3518
5	30.70	Providing and fixing in position best indina make soap dish fixed into wall with C.P. brass screws and complete in all respects including cutting and making good the wells etc white								
	i)	Soap dish small	15	Nos	Each	30.00	450	250%	1125	1575
6	30.71	Providing and fixing in position best indian make bevelled edge 5.5 mm thick mirror ground fixed in position by means of 4 Nos chormium plated brass screws and washers complete including cutting and making good the walls etc								
	b)	with vitreous china frame of size 530mmx430mm								
	i)	White	15	Nos	Each	262.00	3930	250%	9825	13755
7	30.76	Providing and fixing in position C.P. brass stop cocks (as approved by the Engineer-in-charge)								
	a)	15 mm stop cock								
	i	stop cock male and female end	51	Nos	Each	101.00	5151	250%	12878	18029
8	30.84	Providing and fixing in position H.C.I. soil waste vent or antisiphonage pipes to I.S.I. specification of E.I.c. manufacture or of any other reputed firm including cutting and wastage etc and cutting holes in walls roofs or floor etc and making good but ecluding cost of lead jointing								
	a)	100 mm internal diameter 760' or	232	Mtr	Mtr	97.50	22620	300%	67860	90480
	b)	75 mm internal diameter 343' or	105	Mtr	Mtr	83.00	8715	300%	26145	34860
9	30.87	Providing lead caulked joints to H.C.I. pipes and specials conforming to I.S.I. specification of E.I.C. manufacture or any other reputed firm including cost of lead yarn fuel and tools etc.,								
	a)	100 mm internal diameter	353	Nos	Each	33.50	11826	225%	26607	38433
	b)	75 mm internal diameter	210	Nos	Each	27.50	5775	225%	12994	18769
10	30.88	Providing and fixing in position M.S. or heavy flat iron clamps M.S. C.I. soil waste complete in all respects including cutting and making good the walls and floors etc., and painting								
	a)	100 mm internal diameter	40	Nos	Each	12.50	500	300%	1500	2000

Contractor

Witness

Executive Engineer

11	30.89	b) 75 mm internal diameter Providing and fixing HCI floor traps ISI marked of the self cleaning design with C.P. brass hinged grating with frame with or without vent arm and including cement concrete complete in all respects including cutting and making good the walls and floors etc.	40	Nos	Each	11.00	440	300%	1320	1760
12	30.90	b) with 75 mm I/d outlet Providing and fixing in positiong HCI 50mm internal diameter outlet plain nahani trap ISI marked with CP brass hinged grating with frame weighing Each fixed	26	Nos	Each	105.00	2730	300%	8190	10920
13	30.91	b) with 75 mm I/d outlet Providing and fixing in position HCI specials for soil waste vent or anti syphonage pipes to ISI marked including cutting holes in walls roofs or floors etc and making good but excluding cost of lead jointing For 100 mm	8	Nos	Each	100.00	800	300%	2400	3200
		i) Heal rest bend	10	Nos	Each	58.00	580	300%	1740	2320
		ii) Double junction plain with door 100mmx100mmx 100mm	2	Nos	Each	99.00	198	300%	594	792
		iv) Single junction plain with door 100mmx100mmx 100mm	2	Nos	Each	86.50	173	300%	519	692
		xiii) Bend with door	19	Nos	Each	60.00	1140	300%	3420	4560
		xiv) Bend plain	26	Nos	Each	53.00	1378	300%	4134	5512
		xvi) cowls	9	Nos	Each	36.50	329	300%	986	1314
		xxii) Collars	50	Nos	Each	27.50	1375	300%	4125	5500
		For 75 mm								
		iv) Single junction plain 75mmx 75mmx 50mm	7	Nos	Each	45.50	319	300%	956	1274
		xiii) Bend with door	26	Nos	Each	42.00	1092	300%	3276	4368
		xiv) Bend plain	10	Nos	Each	39.50	395	300%	1185	1580
		xvi) Cowls	7	Nos	Each	28.00	196	300%	588	784
		xxii) Collars	30	Nos	Each	22.50	675	300%	2025	2700
14	30.93	Providing and fixing lead inlet connection with brass union for flushing and warning pipes complete in all respects								
15	30.95	c) 15 mm alkathene pipe inlet connection Cutting chase in brick walls in cement or in floor for embedding GI or HCI pipe lines and making good the same to its original condition	33	Nos	Each	10.50	347	225%	780	1126
		a) size 75 mm x 75 mm	10	Mtr	Mtr	6.00	60	250%	150	210

16	30.105	Painting HCI soil waste and vent pipes and fittings with ordinary quality synthetic enamel paint two coats								
	a)	100 mm internal diameter	100	mtr	mtr	3.25	325	250%	813	1138
	b)	75 mm internal diameter	50	mtr	mtr	2.35	118	250%	294	411
17	30.110	Providing and fixing in position automatic brass ball valves in tanks								
	a)	With Plastic ball								
	iii)	25 mm internal diameter	6	Nos	Each	65.50	393	250%	983	1376
18	30.114	Providing and fixing in position Gully traps fixed in cement concrete with HCI grating 150mmx150mm cast iron cover weighing approximately and frame clear opening 300mmx300mm and chamber including cement mortar cement concrete in foundations and cement concrete in coping C.I. with three coats paint C.I. as per standard design								
	b)	100 mm internal diameter HCI gully trap	11	Nos	Each	208.00	2288	300%	6864	9152
19	30.115	Providing and fixing in position best indian make vitreous china ware channel of size 600 mm x 150 mm including laying and fixing in cement concrete 1:2:4 complete as required by the Engineer-in-charge								
	i)	White	15	Nos	Each	92.00	1380	250%	3450	s
							Total	79798	217979	292947
							G.Total	93032	218575	306778

**Executive Engineer,
Provincial Division No. II,
PWD B&R Branch, Rohtak**

Contractor

Witness

Executive Engineer

S. No	NS Item No.	Description	Qty.	Unit	App. Cost Rs. 6.40 Lacs Rates to be quoted by the Cont.
1	2	3	4	5	6
Schedule 2nd (NS Items)					
	i)	Water Supply			
1	N.S.	Prov. and fixing of G.I. Pipe confirming to I.S.I marked galvanized mild steel tube medium Class (ERW) high frequency induction elded HFIW confirming to IS: 1239 (part 1) 1990 i.e. Jindal or Tata make in trenchess in the ground cutting , threading, testing etc. complete			
a)	N.S.	15 mm i/d	14	Mtr.	Mtr. Rates to be quoted by the Cont.
b)	N.S.	20 mm i/d	27	Mtr.	Mtr. Rates to be quoted by the Cont.
2	N.S.	Prov. and fixing of G.I. Pipe confirming to I.S.I marked galvanized mild steel tube medium Class (ERW) high frequency induction elded HFIW confirming to IS: 1239 (part 1) 1990 i.e. Jindal or Tata make in trenchess inside the building cutting , threading, testing etc. complete			
a)	N.S.	15 mm i/d	186	Mtr.	Mtr. Rates to be quoted by the Cont.
b)	N.S.	20 mm i/d	46	Mtr.	Mtr. Rates to be quoted by the Cont.
c)	N.S.	25 mm i/d	61	Mtr.	Mtr. Rates to be quoted by the Cont.
d)	N.S.	40 mm i/d	30	Mtr.	Mtr. Rates to be quoted by the Cont.
3	N.S.	Providing & Fixing G.I. Union confirming to I.S. specifications complete in all respects.(U / Unik make)			
a)	N.S.	15 mm i/d	20	No.	No. Rates to be quoted by the Cont.
b)	N.S.	20 mm i/d	5	No.	No. Rates to be quoted by the Cont.
c)	N.S.	25 mm i/d	5	No.	No. Rates to be quoted by the Cont.
d)	N.S.	40 mm i/d	2	No.	No. Rates to be quoted by the Cont.
4	N.S.	Providing & Fixing Peet valve confirming to I.S. specifications complete in all respects. (DRP make or duly I.S. Mark as approved by the Engg.In.Charge			
a)	N.S.	15 mm i/d	2	No.	No. Rates to be quoted by the Cont.
c)	N.S.	25 mm i/d	9	No.	No. Rates to be quoted by the Cont.
d)	N.S.	40 mm i/d	4	No.	No. Rates to be quoted by the Cont.
5	N.S.	Providing & Fixing Holder Bats confirming to I.S. specifications complete in all respects.			

a)	N.S.	15 mm i/d		50	No.	No.	Rates to be quoted by the Cont.
b)	N.S.	20 mm i/d		20	No.	No.	Rates to be quoted by the Cont.
c)	N.S.	25 mm i/d		10	No.	No.	Rates to be quoted by the Cont.
d)	N.S.	40 mm i/d		5	No.	No.	Rates to be quoted by the Cont.
	ii)	Sanitary installation					
1	N.S.	Providing and fixing in position best indian make type orissa or orya water closet of ACU PAN of Hindware Cat No. 20076 complete with 100 mm H.C.I. 'P' trap other necessary with 10 Ltrs capacity Cistren of Cat No. 21001		10	Nos	Each	Rates to be quoted by the Cont.
2	N.S.	Providing & fixing vitreous Chinaware Constellation European Type W.C of Hind ware make Cat No. 20028 of size 78x37x69 CMS complete with Non Concealed 'P' Trap & Cistern of 10 Ltr. Cap. Cat No. 21038 in all respect.		1	No.	Each	Rates to be quoted by the Cont.
3	N.S.	Providing & fixing vitreous Chinaware Studio European Type W.C of Hind ware make Cat No. 20058 of size 78x37x69 CMS complete with Non Concealed 'P' Trap & Cistern of 10 Ltr. Cap. Cat No. 21028 in all respect.		8	Nos	Each	Rates to be quoted by the Cont.
4	N.S.	Providing & fixing vitreous Chinaware Wash hand basin Type Neptune of Hind ware make Cat No. 10072 of size 55x46 complete with Padestal of Cat No. 11029 in all respect.		8	Nos	Each	Rates to be quoted by the Cont.
5	N.S.	Providing & fixing vitreous Chinaware Wash hand basin Type ZEN of Hind ware make Cat No. 10049 of size 55x43 complete with Padestal of Cat No. 11029 in all respect.		6	Nos	Each	Rates to be quoted by the Cont.
6	N.S.	Providing & fixing vitreous Chinaware FLAT BACK LARGE URINAL Type Cat No. 60002 of size 59X39X37.5 cms complete with divisional plate of size 68x30 Cat. No. 61001 with auto cistern 10 Ltr. Cat No. 61002		10	Nos	Each	Rates to be quoted by the Cont.
7	N.S.	Providing and fixing in position 32 mm dia G.I. Waste pipe embeddeed in wall					
	a)	Bib cock		20	Nos	Nos.	Rates to be quoted by the Cont.

**Executive Engineer,
Provincial Division No. II,
PWD B&R Branch, Rohtak**

Contractor

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Executive Engineer

DNIT

Name of Estimate:-Providing estate & Internal W/S & Sewerage & Sanitary Installation in I.T.I. Kansala Distt. Rohtak

Name of Work:-"Laying of G.I. pipeline / H.C.I. pipeline installation of Sanitary fixture and all other works contingent thereto."

App. Cost 6.40 Lacs
Rs.

FINAL ABSTRACT OF COST

Schedule 1st (HSR Items)
Schedule 2nd (NS Items)

Rs. 306778

Rs. 326140

Grand Total

Rs. 632918

Say Rs. 6.40 Lacs

**Executive Engineer,
Provincial Division No. II,
PWD B&R Branch, Rohtak**

Schedule for construction of Admn. & Workshop Block in I.T.I. at Village Kansala in Rohtak District. (Pdg. E.I. only).

App. Amount. Rs.,5,61,000/- Only.

S.No	Item of HSR	Description	Qty.	Unit.	Rate			Rates in words	Quoted by Contractor
					Basic Rate	CP% / Amount	Total Rate		
1	2	3	4	5	6	7	8	9	10
1)	(c)	Moulded case Circuit breakers.							
	31.12 (c)	Supply and erection of moulded case circuit breakers on wall or on existing pedestal including bonding to earth and necessary connections.				60%			
i)	31.12 c (i)	32 Amp. 415 V ,10 KA 3-phase moulded case Circuit Breaker.	2	Nos.	Each	1926.0 0	1155.6 0	3081.6 0	Rs. Three thousand eighty one & Paise sixty only.
ii)	31.12 c (i)	60 Amp. 415 V ,10 KA 3-phase moulded case Circuit Breaker.	1	No.	Each	1926.0 0	1155.6 0	3081.6 0	Rs. Three thousand eighty one & Paise sixty only.
iii)	31.12 c (ii)	100 Amp. 415 V ,10 KA 3-phase moulded case Circuit Breaker.	2	Nos.	Each	4246.0 0	2547.6 0	6793.6 0	Rs. Six thousand seven hundred ninety three & Paise sixty only.
2)	31.16	Blanking sheet .							
i)	31.16 (i)	Supply and erection of blanking sheet in existing distribution board.	28	Nos.	Each	2.25	60% 1.35	3.60	Rs. Three & Paise sixty only.
	(L)	Miniature Circuit Breaker and Isolator.							

Contractor

Witness

Executive Engineer

viii)	31.17a) (ii)	Tripple Pole with neutral link Miniature Circuit Breaker 32 Amp.	1	No.	Each	403.00	120.90	523.90	Rs. Five hundred twenty three & Paise ninety only.
4)	(M)	Supply and erection of Fittings and Accessories.						200%	
i)	31.18 (iv)	Anodised aluminium bracket made of square rod of section 18 mm ,140 mm long with aluminium base 80 mm dia , 1.2 mm thick 25 mm high complete with brass holder with necessary wire for connections etc. as per approved design.	90	Nos.	Each	27.70	55.40	83.10	Rs. Eighty three & Paise ten only.
ii)	31.18 (vii)	Call bell 220 / 230 volts A.C. bakelite with double coil.	5	Nos.	Each	21.00	42.00	63.00	Rs. Sixty three only.
iii)	31.18 (ix) (a)	Bell push with 4 metres 2-core , 0.50 sqmm (16 / 0.20 mm).PVC flexible wire.	5	Nos.	Each	22.00	44.00	66.00	Rs. Sixty six only.
iv)	31.18 (xi)	Bakelite angle / straight button holder large size.	17	Nos.	Each	6.20	12.40	18.60	Rs. Eighteen & Paise sixty only.
v)	31.18 (xxiv)	Erection only of 1x40 watts or 2x40 watts 1220 mm long / 1x20 watts or 2x20 watts ,610 mm long fluorescent tube fitting directly on wall including necessary connections with 0.75 sqmm (24 / 0.20 mm) PVC copper flexible cable for connecting the tube with the adjacent point.	152	Nos.	Each	10.90	21.80	32.70	Rs. Thirty two & Paise seventy only.
vi)	31.18 (xxv)	Supply and erection of ceiling fitting complete in all respect including cost of brass lamp holder , globe etc. without the cost of lamp.							
	31.18 (xxv) (b)	250 mm dia meter .	20	Nos.	Each	26.00	52.00	78.00	Rs. Seventy eight only.

Contractor

Witness

Executive Engineer

vii)	31.18 (xxvi)	Supply and 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 RCC slab for 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.	111	Nos.	Each	26.30	52.60	78.90	Rs. Seventy eight & Paise ninety only.
viii)	31.18(xxxiii)	Pdg., one extra junction box with 0.55 metre long 20mm dia conduit pipe for the erection of fluorescent tube fitting complete with all required labour and material.	131	Nos.	Each	13.20	26.40	39.60	Rs. Thirty nine & Paise sixty only.
5)	(O)	Erection and carriage of fans..					130%		
i)	31.20 (i)	Erection of ceiling fan complete with necessary earthing of fan and regulator including carriage from local railway station /goods transport /PWD store to the site of work.	111	Nos.	Each	13.00	16.90	29.90	Rs. Twenty nine & Paise ninety only.
ii)	31.20 (iii)	Erection of exhaust fan complete with necessary earthing of fan and regulator including carriage from local railway station /goods transport /PWD store to he site of work.	31	Nos.	Each	25.00	32.50	57.50	Rs. Fifty seven & Paise fifty only.
iii)	31.20 (v)	Making suitable hole in the wall upto 450 mm sweep exhaust fan including finishing the same and fixing of wire mesh duly fixed with Deodar wood frame of section 40 mm x 25 mm thick.	31	Nos.	Each	53.00	68.90	121.90	Rs. One hundred twenty one & Paise ninety only.
iv)	31.20 (vi)	Pdg. and fixing of required size of deodar wood frame of section 50 mm x 32 mm for fixing exhaust fan upto 450 mm sweep.	31	Nos.	Each	55.00	71.50	126.50	Rs. One hundred twenty six & Paise fifty only.

6)	(P)	Pipe Laying.								
	31.21	Supply and erection of pipe for wiring purposes including bends inspection boxes etc. where necessary and painting as required.								175%
i)	31.21 (ix)	Galvanised iron pipe 20 mm dia on flushed.	20	Mtr.	P.Mtr	32.20	56.35	88.55		Rs. Eighty eight & Paise fifty five only.
ii)	31.21 (xxi)	Heavy guage welded conduit pipe 20 mm dia 1.60 mm thickness flushed.	770	Mtrs.	P.Mtr	16.30	28.53	44.83		Rs. Forty four & Paise eighty three only.
iii)	31.21 (xxii)	Heavy guage welded conduit pipe 25 mm dia 1.60 mm thickness flushed.	20	Mtrs.	P.Mtr	19.60	34.30	53.90		Rs. Fifty three & Paise ninety only.
iv)	31.21 (xxiii)	Heavy guage welded conduit pipe 32 mm dia 1.60 mm thickness flushed.	30	Mtrs.	P.Mtr	24.20	42.35	66.55		Rs. Sixty six & Paise fifty five only.
v)	31.21(xxx)	Supply and erection of PVC pipe of 6 kg. pressure laid 1 metre below ground level complete including digging refilling of the trench with jointing etc.								
	31.21(xxx) (c)	PVC pipe 65 mm dia.	35	Mtr.	P.Mtr	31.00	54.25	85.25		Rs. Eighty five & Paise twenty five only.
7)	31.22	(Q) Earthing								180%
i)	31.22(i)	Earthing with GI earth pipe 4.5 m long and 40 mm dia with masonry enclosure on the top etc. as required .	5	Nos.	Each	378.00	680.40	1058.40		Rs. One thousand fifty eight & paise forty only.
ii)	31.22(ii)	Extra for using salt and charcoal / coke for pipe earth electrode as required.	5	Nos.	Each	125.00	225.00	350.00		Rs. Three hundred fifty only.

Contractor

Witness

Executive Engineer

iii)	31.22(xii)	Pdg. and laying earth connections from earth electrode with 4.00 mm dia G.I. wire in 15 mm dia G.I. pipe from earth electrode as required .	50	Mtrs.	P.Mtr	24.50	44.10	68.60	Rs. Sixty eight & Paise sixty only.
iv)	31.22(xvi)	Pdg. and fixing 4.00 mm dia G.I.wire on surface or in recess for loop earthing as required .	100	Mtrs	P.Mtr	3.40	6.12	9.52	Rs. Nine & Paise fifty two only.
8)	(S) 31.25	Under Ground Cables. Supply and erection of under ground cable 1 metre below ground level covered with sand and bricks including necessary connections,digging and refiling of trenches. .					140%		
i)	31.25 (xxvii)	50 Sq. mm 3.5 Core armourd Cable .	130	Mtrs	P.Mtr	89.30	125.02	214.32	Rs. Two hundred fourteen & Paise thirty two only.
9)	31.26	Supply and erection of under ground cable ,loose in existing pipe or trenches complete with necessary connections .					140%		
i)	31.26 (xxvii)	50 Sq. mm 3.5 Core armourd Cable .	20	Mtrs	P.Mtr	74.70	104.58	179.28	Rs. One hundred seventy nine & Paise twenty eight only.
10)	31.28	Supply and erection of suitable compression type brass cable glands for underground Cable.					140%		
i)	31.28 (iii)	25 Sqmm to 50 Sqmm Cable 2 to 4 Core.	2	Nos.	Each	16.80	23.52	40.32	Rs. Forty & Paise thirty two only.
11)	(X)	Miscellaneous .					130%		
i)	31.35 (iii)	Supply and erection of caution notice plate in three languages.	4	Job	Job	2.00	2.60	4.60	Rs. Four & Paise sixty only.

		E.E. P-2 Rohtak		91							
ii)	31.35 (iv)	Supply and erection of shock restoration chart in glass frame	1	Job	Job	37.50	48.75	86.25			Rs. Eighty six & Paise twenty five only.
iii)	31.35 (vii)	Supply and erection of 75 mm x75 mm x 60 mm deep M.S.box for telephone and inter-communication system including 2 pin 5 amp. socket including cost of bakelite sheet .	4	Nos.	Each	18.00	23.40	41.40			Rs. Forty one & Paise forty only.
12)	31.36	PVC insulated wiring in recessed conduit wiring in 1.5 sqmm PVC insulated copper conductor cable in 1.6 mm thick conduit pipe.							10%		
i)	(I)	Fan Point -									
	(b)	Medium Point.	6	Nos.	Each	524.00	52.40	576.40			Rs. Five hundred seventy six & Paise forty only.
	(b)	Long Point.	137	Nos.	Each	733.00	73.30	806.30			Rs. Eight hundred six & Paise thirty only.
ii)	(II)	Light Point-									
	(a)	Short Point.	29	Nos.	Each	251.00	25.10	276.10			Rs. Two hundred seventy six & Paise ten only.
	(b)	Medium Point.	36	Nos.	Each	433.00	43.30	476.30			Rs. Four hundred seventy six & Paise thirty only.
	(c)	Long Point.	217	Nos.	Each	639.00	63.90	702.90			Rs. Seven hundred two & Paise ninety only.

Contractor

Witness

Executive Engineer

iii)	(III)	Twin control light point with 2-way, 5 Amp. single pole switch.							
	(c)	Long Point.	8	Nos.	Each	726.00	72.60	798.60	Rs. Seven hundred ninety eight & Paise sixty only.
iv)	(VI)	Call bell point including M.S. Box of size 180 mm x 100 mm x 60 mm deep for call bell.							
	(c)	Long Point.	5	Nos.	Each	664.00	66.40	730.40	Rs. Seven hundred thirty & Paise forty only.
v)	(VII)	3-Pin 5 Amp. plug point including earthing the 3rd Pin etc.							
	(a)	Short Point.	1	Nos.	Each	283.00	28.30	311.30	Rs. Three hundred eleven & Paise thirty only.
	(c)	Long Point.	38	Nos.	Each	672.00	67.20	739.20	Rs. Seven hundred thirty nine & Paise twenty only.
vi)	(VIII)	3-Pin 15 Amp. plug point with 4 Sqmm PVC insulated copper conductor cable including earthing the 3rd Pin etc.							
	(c)	Long Point.	20	Nos.	Each	970.00	97.00	1067.00	Rs. One thousand sixty seven only.
13)	31.40	Supply & 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 Sqmm (3/0.81 mm).	940	Mtr.	P.Mtr	10.20	1.02	11.22	Rs. Eleven & Paise twenty two only.

ii)	Cable size 4 Sqmm (7/0.85 mm).	490	Mtr.	P.Mtr	24.50	2.45	26.95	Rs. Twenty six & Paise ninety five only.
iii)	Cable size 6 Sqmm (7/1.05 mm).	40	Mtr.	P.Mtr	35.60	3.56	39.16	Rs. Thirty nine & Paise sixteen only.
iv)	Cable size 10 Sqmm (7/1.35 mm).	20	Mtr.	P.Mtr	50.00	5.00	55.00	Rs. Fifty five only.
v)	Cable size 16 Sqmm (7/1.70 mm).	50	Mtr.	P.Mtr	83.70	8.37	92.07	Rs. Ninety two & Paise seven only.
14)	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 the entire satisfaction of the Engineer-in-charge of the work.				10%		
i)	4 Way TPN (Horizontal)	1	No.	Each.	1670.0 0	167.00	1837.0 0	Rs. One thousand eight hundred thirty seven only.
ii)	8 Way TP & N (Horizontal)	2	Nos.	Each.	2100.0 0	210.00	2310.0 0	Rs. Two thousand three hundred ten only.
iii)	12- Way, TP & N (Horizontal) (8+36)	1	No.	Each.	2600.0 0	260.00	2860.0 0	Rs. Two thousand eight hundred sixty only.

Contractor

Witness

Executive Engineer

15)	31.42	Supply & erection double pole / four pole Residual current circuit breaker (RCCB/EICB) suitable for operation on 240/415V, 5Hz. AC supply installed in existing sheet steel enclosures including making necessary connections and bonding to earth with all labour and material required to complete the job in all respect upto the entire satisfaction of the Engineer-in-Charge of the work.						10%	
i)		25 A / 415 V 4 Pole ELCB with 100 MA sensitivity.	1	No.	Each.	1550.0 0	155.00	1705.0 0	Rs. One thousand seven hundred five only.
ii)		40 A / 415 V 4 Pole ELCB with 100 MA sensitivity.	1	No.	Each.	1600.0 0	160.00	1760.0 0	Rs. One thousand seven hundred sixty only.
16)	31.47	Supply & erection of M.S. box of size 200 mm x 150 mm x 100 mm deep covered with bakelite sheet including cost and 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.						10%	
			1	No.	Each.	350.00	35.00	385.00	Rs. Three hundred eighty five only.

M.R. ITEMS

17)	NS-1	Supply & erection of M.S. Box made of 16 Gauge of size d 8" x 10" x 4" covered with 3 mm thick bakelite sheet white colour of ISI Mark fixed by means of 4 Nos. brass screws with cost of 1 No. 15 Amp. multi socket of ISI Mark and 15 Amp. switch and 3 Nos. 5 Amp. multi-socket with 5 Amp. switches of ISI Mark including fixing the M.S. Box in wall with cost of cement sand mixture including painting of M.S. Box and to complete the job in all respect upto the entire satisfacion of Engineer-in-charge of the work.	6 Nos. Each	475.00	Rs. Four hundred seventy five only.
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**Executive Engineer,
Elect. Divn., PWD B&R Br.,
Rohtak.**

Contractor

Witness

Executive Engineer