

OFFICE OF THE EXECUTIVE ENGINEER(ELECT.)
H.S.A.M.BOARD,PANCHKULA.
SHORT NOTICE INVITING TENDER

Manual submission of tenders as well as E-tenders are hereby invited for the following works by the undersigned on behalf of the Board from the appropriate class of electrical Contractors/Societies and are enlisted with the Board (H.T. licence for Sr. No.2),for (Sr. No.3) having five year experience in the field of fire fighting systems and for (Sr. No.4 to 5) from the reputed Diesel Generating sets manufactures or their authorized dealers. The bids will be opened on appointed dates as per detailed mentioned below in the office of the undersigned in the presence of the tendering / bids agencies or their authorized representative who may like to be present at the time of opening of tenders . **Tender notice along with Tender documents and terms and conditions can be seen on the web site of the HSAMB at <http://hasmb.etenders.in> as well as in the office of the undersigned. The Earnest Money in shape of Call deposit /Demand Draft dully plugged in favour of the undersigned on any schedule Bank payable at Panchkula.**

S.N.	Name of Division	Name of work	(a) Estimate Cost (b) Earnest Money (c) Cost of Tender documents (d) Date of opening of Tenders (e) Time limit (f) Validity of rates
1.	Electrical Division HSAM Board , Panchkula	Pdg. Electrical Installation including distribution system etc. for AGRO shopping Mall at Panchkula	(a) Rs.99 Lacs (b) Rs.1.98Lacs (c) Rs.3000/- (d) 28.08.2009 at 3.00 PM (e) Six Months (f) 90 days
2.	Electrical Division HSAM Board , Panchkula	Supply, Installation, testing & commissioning of 315KVA outdoor type transformer for Multi commodity utility at Karnal.	(a) Rs.8.00 Lacs (b) Rs.0.16 Lacs (c) Rs.500/- (d) 28.08.2009 at 3.00 PM (e) Two Months (f) 90 days
3.	Electrical Division HSAM Board , Panchkula	Supply Installation , testing & commissioning of fire fighting system etc. for AGRO shopping Mall at Panchkula	(a) Rs.249 Lacs (b) Rs.4.98 Lacs (c) Rs.5000/- (d) 28.08.2009 at 3.00 PM (e) Six Months (f) 90 days
4.	Electrical Division HSAM Board , Panchkula	Supply, Installation, testing & commissioning of Diesel Generating Sets (Water Cooled) of 125 KVA and 82.5 KVA Capacity for Multi commodity utility at Karnal.	(a) Rs.15.80 Lacs (b) Rs.0.302 Lacs (c) Rs.500/- (d) 28.08.2009 at 3.00 PM (e) Two Months (f) 90 days
5.	Electrical Division HSAM Board , Panchkula	Supply, Installation, testing & commissioning of Diesel Generating Sets (Water Cooled) of 125 KVA and 82.5 KVA Capacity for Multi commodity utility at Panipat.	(a) Rs.15.80 Lacs (b) Rs.0.302 Lacs (c) Rs.500/- (d) 28.08.2009 at 3.00 PM (e) Two Months (f) 90 days

TERMS & CONDITIONS:-

1. The Detailed terms & conditions can be seen in the office of the undersigned during the office hours as well as website of Board **<http://hasmb.etenders.in>**.
2. The cost of bid will be deposited online for E-tendering. For manual bidding tender form can be obtained from the office of the undersigned upto 1:00pm of 28.08.2009

G.D. Sharma
Executive Engineer(E),
HSAMBoard,Panchkula.
Ph.No.0172-2585156

Endst.No.XEN(Elect.)2009/

Dated.

A copy of the above is forwarded to :-

1. All the Superintending Engineers in the State.
2. All the XEN's/XEN (Elect.), Hissar in the HSAMBoard.
3. All the S.D.O.(Elect.)/ JE (E) concerned in H.S.A.M.Board
4. Sh. Karam Singh SDO(IT). He is requested to display the tender notice on web site of the Board.
5. All the enlisted Contractors(Elect.) in HSAMBoard
6. The DMO's/ E.O.-Cum Secretary in concerned Market Committee.
7. The HDM(Elect.)/H.C./Divisional Accountant Electrical Divi. Panchkula.

G.D. Sharma
Executive Engineer(E)
HSAM Board, Panchkula
Ph. No.0172-2585156

CONDITIONS

- 1 If the prescribed date happens to be public holiday than the next working day shall be treated as date of receipt of tenders.
- 2 The contractors already working in Board shall have to deposit earnest money afresh Earnest money already deposited will not adjusted in any case.
- 3 The Un-Employed Graduate Engineer is required to deposit 1% earnest money.
- 4 The L & C Societies are required to deposit 1% Earnest Money on the production of the requisite certificate.
- 5 The bids will be operated only after obtaining the Digital Certificate issued to the authorized companies/Societies/Contractor and only after depositing the cost of bid document. The financial bid will be opened on the production of earnest money in favor of XEN(E), Panchkula on any scheduled Bank in the State payable at Panchkula as per tender schedule.
- 6 Manual Tender form shall be issued on the production of the proof of enlistment and the cost of tender document.
7. The earnest money in the shape of call deposit receipt/ demand draft duly pledged in favour of the undersigned on any scheduled Bank in the State payable at Panchkula should be deposited at the time of submission of tender document.
8. Earnest money will not be released before 90 days or allotment of work which ever is earlier. This condition will also be applicable in case of non-submission of tender form.
9. Telegraphic/ambiguous tender involving time and financial implication shall not be accepted.
10. The details of work i.e. estimate DNIT, drawing and other conditions can be seen in the office of the undersigned on any working day during the office hours OR from web site of Board i.e. <http://hasmb.etenders.in>. & www.hsamb.gov.in
11. The undersigned reserves the right to reject any or all tenders without assigning any reason.
12. 10% (ten percent) security will be deducted from all the running bills of the contractor subject to condition that overall amount should not exceed 5% of agreement amount.
13. Any type of rebate offered by any agency will be treated as unconditional.
14. The Sale Tax, Income Tax with surcharge and Labour Cess as applicable as per Govt. instruction shall be deducted on gross amount of work done.
15. The agencies enlisted with PWD B & R, PWD (Public Health), PWD Irrigation, HUDA, HSIDC, Power Utilities and Railways are also eligible to put in their tenders in HSAMB under appropriate class of their enlistment after depositing one time prescribed enlistment fee in the Board.
16. The Agency can submit the tenders either manually or E-tenders, if tenders are submitted through both the system then tender will not be accepted upto 50 Lacs
17. In case of E-tendering, the contractor / firm has to deposit a sum of Rs.1100/-only extra in addition to the cost of tender document.
18. The tenders for Sr.No.1 & 3 costing more than Rs.50/- Lacs will be received through E-tendering & SHOULD BE ON PERCENTAGE BASES and tenders for balance work will be received manually as well as E- tendering.
19. **ELIGIBILITY CRITERIA OF BIDDER (for fire fighting system at Sr. No.3)**
 - (a) The Bidder must be a company registered under Indian Companies Act 1956.
 - (b) The Bidder should have turnover in last three financial years Rs.4.50 Crore in fire fighting & fire alarm system only, and be a profit making enterprise during the last 3 financial years. A certificate from the statutory auditors shall be attached as a proof for the same. A document showing the turn over of the firm certified by the CA.
 - (c) The Bidder should have minimum 7 regular professional employees on its payrolls as on 31st March 2009.
 - (d) The Bidder Should have at least one service centre situated in NCR/CHD/Panchkula
20. The bidder should have successfully completed and implemented at least two work and one of them should be for any Govt Departments/Boards/Corporations in agriculture sector. During last seven years ending 30th June 2009: Two fire fighting works each costing not less than 50.00 lacs. SIMILAR WORK means the original work involving Supplying, Installation, Testing and Commissioning of Fire fighting System.
 - (a) The bidder should submit PAN/TIN numbers.
 - (b) Banned or Blacklisted Companies by any State / Central Government or any Government Institutions in India will not be eligible to participate. An undertaking to this effect, signed by authorized signatory, has to be submitted.
 - (c) The firm should have Electrical License.
 - (d) The firm should have registered with CPWD/MES/HSAM BOARD in Fire Fighting & Fire Alarm system.
 - (e) The Tenderer shall submit the tender in dual Bid System; one is technical Bid and second is price bid. Price bid will be open after qualification of the tenderer in technical bid.
 - (f) The firm should a direct distributor/dealer one of the approved make of the tender for this project. The manufacturing company should issue a support latter in the favour of the distributor/dealer confirming technical sport and warranty for period of one year for this project only.
 - (g) The firm should have registered with ESI/EPF/Service Tax Department.
 - (h) The firm should be registered with Works Contract Cell of the Sales Tax Department.
The firm shall attach photocopies of the following documents, duly attested by a gazetted officer in support of their eligibility as above:

G.D. Sharma
Executive Engineer (E)
HSAMB, Panchkula
Ph.No.0172-2585156

TENDER SCHEDULE

- 1 Employer: Haryana State Agriculture Marketing Board Through Executive Engineer(E),HSAM Board , Panchkula
- 2 District: Panchkula
- 3 Name of work: Detailed as given below.
- 4 Time table and location for various events for E-tendering are as under:-

S.N.	Name of Division	Name of work	(a) Estimate Cost (b) Earnest Money (c) Cost of Tender documents (d) Date of opening of Tenders (e) Time limit (f) Validity of rates
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5.	Electrical Division HSAM Board , Panchkula	Supply, Installation, testing & commissioning of Diesel Generating Sets (Water Cooled) of 125 KVA and 82.5 KVA Capacity for Multi commodity utility at Panipat.	(a) Rs.15.80 Lacs (b) Rs.0.302 Lacs (c) Rs.500/- (d) 28.08.2009 at 3.00 PM (e) Two Months (f) 90 days

Sr. No.	H.S.A.M. Board Stage	Contractor Stage	Start Date & Time	Expiry Date & Time
1	Release of Tender	.....	21.08.09 15.00	23.08.09 17.00
2	.....	Download Tender Document	23.08.09 17.01	25.08.09 15.00
3	.....	Online Bid Preparation & Hash Submission	23.08.09 17.01	25.08.09 15.00
4	Technical and Financial Lock	.....	25.08.09 15.01	25.08.09 17.00
5	.....	Re-encryption of Online Bids	25.08.09 17.01	26.08.09 12.00
6	.....	Manual Submission of enlistment & EMD	21.08.09 10.00	27.08.09 10.00
7	Open EMD & Technical/PQ bid	.....	27.08.09 10.01	28.08.09 14.00
8	Technical Evaluation	.....	27.08.09 10.01	28.08.09 15.00
9	Open Financial / Price- Bid	.....	28.08.09 15.01 HRS	28.08.09 18.00 HRS

Time table and location for various events for manual tendering are as under:-

Sr. No.	H.S.A.M. Board Stage	Contractor Stage	Start Date & Time	Expiry date & Time
1	Sale of tenders		18.08.09 17.01	28.08.09 13.00
2		Submission of tenders and technical bids.	18.08.09 18.01	28.08.09 15.00
3	Opening of technical Bids	.....	27.08.09 12.00	28.08.09 14.00
4	Technical evaluation		27.08.09 14.01	28.08.09 15.00
5	Open Financial/ Prize Bid		28.08.09 15.01 HRS	28.08.09 18.00 HRS

Note:-

- 1 Eligible Bidders :- As per qualification Criteria given in the instructions to Bidders.
- 2 Concerned Superintending Engineer:- Superintending Engineer, Haryana state Agriculture Marketing Board, Panchkula.
- 3 Concerned Executive Engineer:- Executive Engineer(E) ,Haryana State Agriculture Marketing Board, Panchkula

G.D. Sharma
Executive Engineer(E)
H.S.A.M.Board Panchkula
Ph.No.0172-2585156

TENDER FORM

Tender dated **20.08.2009**

H.S.A.M.B. Form W 4
The Haryana State Agricultural Marketing Board
(ENGINEERING WING)

Name of the Contractor

Name of work:- **Supply, Installation, testing & commissioning of fire fighting system etc. for AGRO shopping Mall at Panchkula**

Head Clerk _____

District Division

Sub Division

Divisional Accountant

Scrutinized

PERCENTAGE RATE TENDER AND CONTRACT FOR WORK

Executive Engineer

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 Engineer-in-Charge. Construction Office, H.S.A.M.B. This form will state the work to be carried out, as well as the date for submitting and opening tenders, and the time allowed for carrying out the work, also the amount of earnest money to be deposited with tender, and the amount of security to be deposited by the successful tenderer and the percentage, if any to be deducted from bills. Copies of all specifications, designs and drawings and schedule rates and any other documents required in connection with work, signed for the purpose of other documents, required in connection with the work, signed for the purpose of identification by the Executive Engineer, shall also be open for inspection by the contractor at the office of Executive Engineer during office hours.
2. In the event of the tender being submitted by a firm, it must be signed separately by each member thereof, or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so.
3. Any person who submits a tender shall fill up the usual printed form, stating at how much percent above or below the rates specified in Rule 1 he is willing to undertake the work. Only one rate of percentage more or than all the Schedule or rates shall be named. Tenders not accompanied by Earnest money and which propose and alternation 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 condition of any sort requiring clarification will be rejected. No single tender shall include more than one works but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the work to which they refer out written outside the envelope.
4. The Executive Engineer or his duly authorized Assistant will open tenders in the presence of any intending contractors or their authorized agents who may be present at the time and will enter the amount of the several tenders in a Comparative Statement in suitable form. In the events or a tender being accepted a receipt for the earnest money forwarded therewith shall thereupon be given to the contractor who shall there upon for purpose of the event of a tender being rejected the earnest money forward with such unaccepted tender shall there upon be returned to the contractor making the same.
5. The Competent Authority to sanction the rates shall have the right of rejecting all of or any of the tenders without assigning any reason.

Contractor

Witness

Executive Engineer

6. The Disbursing Officer may refuse or suspend payments on accounts 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 partner, or some other person produce written authority enabling him to give effectual receipts on behalf of the firm.

7. The receipt of money paid by the contractor to an Accountant or Clerk will not be considered as true acknowledgement of payments to the Executive Engineer and the contractor shall be responsible for seeing that he procures a receipt signed by the Executive Engineer

8. The memorandum of work tendered and the memorandum of materials to be supplied by the Board and their issue rates shall be filled in and completed in the office of the Executive Engineer before the tender form is issued.

Contractor

Witness

Executive Engineer

TENDER FOR WORKS

I/We hereby tender for the Haryana State Agricultural Marketing Board here-in-after referred to as Board of the works specified in the under written memorandum within the specified in such memorandum at*

Percent below/above the rates entered in the schedule of rates mentioned in Rule 1 and in accordance in all respects with the specifications, drawing and instructions writing referred to in Rule. I hereof and in clause II of the annexed conditions, and with such material as are provided for an by in all other respects in accordance with the such conditions so far as applicable.

MEMORANDUM

(a) General description:- **Supply, Installation, testing & commissioning of fire fighting system etc. for AGRO shopping Mall at Panchkula**

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

(b) Estimated cost ... --- Rs.2609250/-

b) This deposit will vary from 1 percent to 10 percent of The estimated cost of the Work according to the Requirements of the case.

(c) Earnest money ... --- Rs.498000/-

c) The percentage where no Security deposit is taken Would vary from 5% to 10% as requirements of the case.

(d) Percentage, if any, to be deducted from bill as Rs. 10% Rupees (ten percent) but maximum 5% of total agreement amount.

(e) Time allowed for the work from the date months of written order to commence. **6 (Six)Months**

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 on in default hereto forfeit and pay to the Board or its successor in office, the sum of money mentioned in the said conditions.

The sum of Rs. is herewith forwarded in call deposit Receipt as earnest money the full value of which is to be absolutely forfeited by the Board or its successors in office, without prejudice to any other rights or remedies of the said Board, or its successors in office, should I/We fail to commence the works specified in the above memorandum, (the said sum of Rs. Shall/retained by the Board on account of the security deposit some specified in clause of the said conditions of contract).

Give particulars and numbers, Strike out (a) if no security out (b) if any cash security deposit is taken
Signature of witness to contractor signature.

Dated the _____ Day of _____ 20__

Witness
Address
Occupation

The above tender is hereby accepted by me on behalf of the Board.
Dated the _____ Day of _____ 20__

Signature of the officer by whom accepted.

Contractor

Witness

Executive Engineer

CONDITIONS OF CONTRACT

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 here in-after called the contractor, shall permit Board at the time of making any payments to him for work done under the contract to deduct such sum as (with the earnest money deposited by him) two percent of all money payable as such deductions to be held by board by way of security the terms of this contract may be deducted from his security deposit from, 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 security endorsed as aforesaid any sum or sums which may have been deducted from his security deposit or any part thereof.

Compensation of delay

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

Action when whole of
deposit is
forefeited.

Clause 3 -In any case in which under any clause or security clauses of this this contract the contractor shall have rendered himself liable to pay compensation. Executive Engineer on behalf of Board shall have power to adopt any of the following course, as he deem best suited to the interest of Board:-

Provided that an appeal against action taken buy E.E. shall be with S.E. whose decision in writing shall be final.

a) To rescind the contract (of which rescission notice in writing to the contractor

Contractor

Witness

Executive Engineer

under 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 Board.

- (b) To employ labour paid by the Board 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 which cost and price certificate of the Executive Engineer shall be final and conclusive against the contractor and crediting him with the value of the work done in all respect 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 up 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 case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (of the amount of which excess the certificate in writing of the 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 Board under the contract or otherwise or from his security deposit, proceed of the sale of material belonging to the contractor to a sufficient rate thereof. In the event of any of the above course 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 materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract. And in case the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or be paid any some for any work there to for actual performance under this 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 pay the value so certified.

Clause 4 - In the case in which any if the power, conferred upon the Executive Engineer/S.E. by clause 3 hereof, shall have become exercisable and the same not be exercised the non-exercise thereof shall not constitute a waiver of any of the condition hereof and such power 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 Executive Engineer putting in force any of the power(s) to © vested to him under the proceeding clause he may if he so desires, take possession of all or any tools, plants material and stores, in or upon the works or the site there of belonging to the contractor or procured by him and intended to be used for the execution of work or any part thereof being applicable at current market rates to be certified by the Executive Engineer may be noticed in writing to the contractor or his clerk of the works, foreman or other authorized agency require to remove such tools, plants, materials or stores form the premises within 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 at his risk in all respect, and the certificate of the Executive Engineer as to the expense or any such removal and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

Contractor remains liable to pay compensation if action not taken under Clause 3 Power to take possession or required removal or sell contractor plants.

Clause 5 - If the contractor shall desire an extension of the time for completion of the work on the grounds of his having been unavoidably kindered in its execution or any other ground, he shall apply in writing to the Superintending Engineer through the Executive Engineer within 30 days of the date of the hindrance on account of which he desires such extension as aforesaid but before the expiry of time limit the Superintending Engineer/Executive Engineer shall, if in his opinion (which shall be final) reasonable grounds, exits, authorize such extension of time, if any, as may, in his opinion, be necessary or proper, without prejudice to any action taken under clause 2.

Extension of time

Contractor

Witness

Executive Engineer

Contractor to submit a return
Every month on any works
Claimed as extra or in the

Clause 5A The contractor shall deliver in the office of the Executive Engineer on or before the 10th day of every month during the continuance of the 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 return mentioned in the contract. The contractor shall include in such monthly return particulars of 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, 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 and such claims not so included whatsoever be the circumstances.

Final certificate

Such certificate shall be
Given nor shall be given not
Shall the work be considered
to be.

Clause 6 Without prejudice to the rights of Board under any clause hereinafter contained on completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer thereafter called the Engineer-in-Charge of such completion but not completed until the contractor shall have removed from the premises on which the work work has been executed all scaffolding surplus materials, and rubbish, considered to be and cleaned off the dirt from all wood works doors, walls, 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, if the contractor shall fail to comply with the requirements of this clause as to removal of scaffolding, surplus materials and rubbish and cleaning off dirt on or before the date fixed for the completion of the work, the Engineer-in-Charge may, at the expense of the contractor, remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirt as aforesaid and the contractor shall forthwith pay the amount of all expense so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any such actually realized by the sale thereof.

Payment on Intermediate
Certificate to be regarding
As an advance.

Clause 7- No payment shall be made for works estimated to cost less than rupees one thousand, till after the whole 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 when approved and passed by the Engineer-in-Charge whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. But all such intermediate payments shall be final and conclusive against the contractor. But all such intermediate payments shall be regarded as payments by way of advance against the final payment and not as payments for work actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected, or be considered as an admission of the due performance of the contract or any part thereof in any respect, or the accruing of any claim, nor shall it conclude, determine, or effect in anyway the powers of the Engineer-in-Charge, under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise, or in any other way very or affect the contract. The final bill shall be submitted by the contractor with in one month of the date fixed for completion of the work, otherwise Engineer-in-Charge certificate of the measurement and the total amount payable for the work accordingly shall be final and binding on all parties.

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 all work executed in the previous months, and the Engineer-in-Charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified, and the claim, as far as admissible, adjusted 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 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.

Bill to be submitted on printed
Form

Clause 9 - The contractor shall submit all bills on the printed forms to be had on application at the office of Engineer-in-Charge in the bills, shall always enter at the rates specified in the tender subject to the tendered abatement premium or in the case of any extra work ordered in presence of these conditions and not mentioned or provide for in the tender at the rates hereinafter provided for such works.

Contractor

Witness

Executive Engineer

Clause 10 - If the specification of estimate of the work provides for the use any special description of materials to be supplied from the Engineer-in-Charge's stores or if it required that the contractor shall use certain stores to be provided by the Engineer-in-Charge (such materials and stores, and the prices to be charged therefore as hereinafter mentioned being so far as practicable for the convenience of the contractor, but not so as in any way to control the meaning or effect of this contract specified in the schedule or memorandum here to annexed) the contractor shall be supplied with such materials and stores as required from time to time be used by him for the purpose of contract only and the value of the full quantity of materials and stores so supplied by the rates specified in the said schedule or memorandum may be set off or deducted from any sums then due or hereinafter to become due to the contractor, under the contract or otherwise against from the security deposit. All material supplied to the contractor shall remain the property of the contractor, but shall not on any account be removed from the site or 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 used on and in perfectly good condition at the time of complete completion or unused and in perfectly determination 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 and such material unless with such 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 in or damage to, any such materials.

Clause 11 - The contractor shall execute the whole and every part of the work in the most substantial and workman like a matter and both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings instruction 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 or such or on the site of upon for the purpose of inspection during office hours and the contractor shall if so enquired at his own expenses to make or clause to be made copies of the specifications and of all such designs and instructions as aforesaid.

Work to be executed in accordance with specifications drawings orders etc.

Clause 11A - The Engineer-in-Charge shall have full powers at times to object to the employment for 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 or any such man or men from the work the contractor shall have to comply with the request for with.

Removal of employees workman and foreman

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

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

Clause 12- The Engineer-in-Charge shall have power to make any alternations in or omission form, additions or substitutions for, the original specifications, during, 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 them in accordance with any instructions which may be given to him in writing signed by the Engineer-in-Charge and such alternations, omissions, additions or substitutions shall not invalidate the contract, and any altered, additional or substituted work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on some conditions in all respects on which he agree to do the main work, and at the same rates as are specified in the tender for the main work. The time for completion of the work shall be extended in the proportion that the altered, additional or substituted work bears to be the original contract work, and the certificate of the Engineer-in-Charge shall be conclusive as to such proportion. And the altered additional or substituted work includes any class of work, for which no rate is specified in the contract, then such class of work shall be carried out at the rates entered in the schedule of rates then the contractor shall within 7 days of the date of his receipt of the order to carry out the work inform the Engineer-in-Charge of the rate which it is his intention to charge for such class or work, and if the Engineer-in-Charge does not agree to this rate he shall be noticed in writing, be at liberty to cancel his order to carry out such class of work and arrange to carry out in such manner as he may consider advisable, provide always that if the contractor shall commence work or incurred any expenditure in regard there to before the rates shall have been determined as lastly here in before mentioned then and in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rates as aforesaid according to such rate or rates as shall be fixed by the Superintending Engineer. In the event of a dispute the decision of the competent authority of the Board shall be final.

Alternation in specifications and designs

Do not invalidate contract.

Extension of time in consequence or Alteration.

Contractor

Witness

Executive Engineer

No compensation for alteration
restriction of work to be
Carried out.

Clause 13 - If at time after commencement of the work the Board shall not give in or any reason whatsoever not require thereof as specified in the tender to be carried out the Engineer-in-Charge shall be given notice in writing of the fact of the contractor who shall have no claim to any payment of or compensation whatsoever on account of profit and advantages might have derived from the contractor who shall have no claim to any payment of or compensation whatsoever on account of any, profit and advantages, which he might have derived from execution of the work not having been carried out; neither shall he have any claim for compensation by reason of any alteration carried out, nor shall he have any claim for compensation by of any alteration having been made in the original specifications, drawings and instructions which shall involve any curtailment or the work as originally contemplated.

Action and compensation
Payable in case of bad work.

Clause 14- If it shall appear to the CE/SE/Engineer-in-Charge or his subordinate in charge of the work, that any work has been executed with unsound, imperfect or unskillful workmanship, or with 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 interior to that contracted for, or otherwise not in accordance with the contract, the contractor shall on demand in writing from the Engineer-in-Charge specifying the work materials or articles complained of notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the work so specified in whole or in part as the case may require, 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, then the contractor shall be liable to pay compensation at the rate of one percent on the amount of the estimates for every day not exceeding ten days, while his failure to do so shall continue and in the case of any such failure the Engineer-in-Charge may rectify or remove and re-execute the work or remove and replace with others, materials or articles complained of or as the case may be at the risk and expense in all respects of the contractor. Rates in case of bad work unsafe structurally can be reduced suitably by Engineer-in-Charge, Decision of the SE in such matters shall be final.

(Work to inspection)

Contractor or responsible
Agent to be present

Clause 15 - All works 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 C.E./S.E./ the Engineer-in-Charge and his subordinates and the contractor shall at all times during the usual working hours and at all other 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 agency shall be considered to have the same force as if they had been given to the contractor himself.

Notice to be given before
Is covered up.

Clause 16 - The contractor shall give not less than five day's notice in writing to the Engineer-in-Charge or his subordinate in charge of the works before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same, is so covered up or placed beyond the reach of measurement any work without the consent in writing of the Engineer-in-Charge or his subordinate in charge of the work and if any work shall be covered up of placed beyond the reach of measurement without such notice having been given or consent obtained, the same shall be uncovered at the contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Contractor liable for damage
done and for imperfection for 3
months after certificate.

Clause 17 - If the contractor or his work people, or servants shall break, deface, injure or destroy any part of a building, in which they may be working or any building, road fence enclosure or grass land, or cultivated ground contiguous to the premises on which the works on any part of its being executed, or if any damage shall happen to the work, while in progress, from any cause whatever or any imperfection 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 workmen and deduct the expense (of which the certificate of the Engineer-in-Charge shall be final) from any sums that may be then, or at any time thereafter may become, due to the contractor, or from his security deposit or the proceeds of sale of his materials or of a sufficient portion thereof.

Contractor

Witness

Executive Engineer

Clause 18 - The contractor shall supply at his own cost all material (except such special materials if any, as may in accordance with the contract be supplied from the Engineer-in-Charge's stores) plants, tools, appliances, implements, ladders, cordage tackle, scaffoldings and temporary works requisite for 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 the 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 any from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting to the measurement of examination at an time and from time to time of the work or materials. Failing his so doing the same may be provided by the Engineer-in-Charge at the expense of the contractor under the contract or from his security deposit or the proceeds of sale thereof, of sufficient portion thereof. The contractor shall also provide all necessary fencing and light required to protect the public from accident, and shall be bound to bear the expense of defence of every suit action of other proceedings, at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay away damages and cost 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 and claim by any such person.

Contractor supply plant ladder scaffolding's etc.

Clause 19 - No female laborer shall be employed within the limits of cantonment.

Female labour

Clause 19A - No laborers below the age of 12 years shall be employed on the work.

Clause 19B The contractor shall pay his laborers not less than the wages paid or similar Work in the neighborhood.

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

Work on Sundays

Clause 20A In every case in which by virtue of the provision of section 12, sub-section (1) of the workman's Compensation Act 1923, Board is obliged to pay compensation to a workman employed by the contractor in execution of the works. Board will recover from the contractor the amount of the compensation so paid and without prejudice to the rights of Govt. under section 12, sub-section (2) of the said Act, Board shall be liberty to recover such amount or any part thereof by deduction it from the security deposit or from any sum due by Board to the contractor whether under this contractor or otherwise.

Board 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 Board full security for all costs for which Board might become liable to consequence of contesting such claim.

Clause 20 B - The contractor shall also be bound by the fair wage clause and Labour regulations appended herewith.

Clause 21- The contract shall not assignee or sublet without the written approval of the Executive Engineer. And if the contractor shall assign or sublet his contract, or made any composition with his creditors attempt to do so or if any bribe, gratuity, gift, loan, perquisite regard or advantage pecuniary or otherwise, shall either directly or indirectly be given promised, or offered by the contractor or any of his servants or agents to any public officer of person in the employ of Board 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 Executive Engineer may there upon by notice in writing rescinds the contract, and the security/deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Board and the same consequences shall ensure as if the contractor had been rescinded under clause 3 thereof, and in addition the contractor shall not be entitle to recover or be paid for any work therefore actually performed under the contract.

(Contractor liable for payment of compensation to injured workman or in case of death to his relation) (Work not be subject) (Contract may be rescinded and security subletting, bribing, or it contractor becomes insolvent.)

Contractor

Witness

Executive Engineer

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 Board without reference to the actual loss or damage sustained and whether or on any damage shall have been sustained.

(Sum payable by way of Compensation to be considered as reasonable compensation without Reference to actual loss)

Clause 22A Any excess payment made to the contractor inadvertently or otherwise under this contract or any account whatever and other sum found to be due to Board by the contractor in respect of this contractor any other contract or work order payable by Board to the contractor either in respect of this contract or any work order or contract or any other account.

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.

Deduction of amounts due to Govt. on any account
Whatever to in be Permissible from sums Payable to a contractor
(Charges in constitution of firm)

Clause 24 - All works to be executed under the contract shall be executed under the direction and subject to the approval in all respect of the Superintending Engineer of the Board 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.

Clause 25- No claims for payment of an extraordinary nature, such as claims for a bonus, for extra labour, employed in completing the work before the expiry of the contractual period at the request of the Engineer-in-Charge or 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 Board under the signature of its Chief Engineer.

Arbitration clause.

*If the matter is not referred to arbitration within the specified period, all the rights and claims under the contract shall be deemed to have been forfeited and absolutely barred.

(Works to be under direction of S.E. (Claims for payment of as extraordinary nature to be referred to Govt. for decision).

Clause 25 A- It shall be a term of the contract agreement that arbitrator, shall give a speaking award otherwise the award shall be null and void and will not be binding on the parties it shall also be a term of this contract that in any dispute /difference referred to the arbitrator the arbitrator shall not, award interest to the parties on any of the items of contract agreement executed in between the parties, if the arbitrator awards interest the same shall not be binding on the parties.

Amended Clause 25A - of the agreement approved by the Board vide Resolution No. 27 Dt. 30.8.94 and conveyed vide Chief Engineer, H.S.A.M.Board, Panchkula's memo No. CEA-V-94/15159 Dt. 25.10.94. If any question, difference or object whatsoever shall arise in any way connected with or arising out of this instruments at the meaning or operations of any part thereof or the rights duties liabilities of other party then save in so far as the decision of any such matter there in before provided for and has been so decided every such matter including whatever according or whether its decision has been provided for and or whether it has been finally divided the contract should be terminated not has been rightly terminated and as regards the rights and obligations of the parties as the result of such termination shall be referred for arbitration to the capable officer to be appointed by the Chief Administrator Board within 180 days viz six months from the date or making final payment to the contractor or when the contractor is not willing to receive the payment from the date of registered notice is sent to him that his final bill is ready for payment and his decision shall be final and binding and where the matter involves a claim for the payment or recovery or deduction of money only the amount if any awarded in such arbitration shall be recoverable in respect of the matter so referred.

If the matter is not referred to arbitration within the specified period, all the rights and claim under the contract shall be deemed to have been forfeited and absolutely barred.

Contractor

Witness

Executive Engineer

Clause 26 - The contractor shall obtain from the stores of the Engineer-in-Charge all stores and articles which may be required for the work or any part thereof or in making up articles require therefore in connection with; unless he has obtained permission in writing from Engineer-in-Charge to obtain such stores and articles elsewhere. The value of such stores and articles as may be supplied to the contractor by the Engineer-in-Charge will be debited to the contractor in his account at the rates mentioned 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 purposes of this contract shall include the cost of carriage and all other expenses which shall have been insured in obtaining delivery of the same at the stores aforesaid.

Store of European or American manufacture to be obtained from Government.

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

Function in railway Freight.

Clause 27 When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractors shall be entitled to payment in respect of the items of the work involved, or the part of the work in question at the same rates as are payable under this contract for such items or if the part of the work in questions not in the opinion of Engineer-in-Charge capable of measurement the Engineer-in-Charge may at his discretion pay the lump sum, amount entered in the estimate,. And the certificates in writing of the Engineer-in-Charge shall be final and conclusive against, the contractor within guard to any sum payable to him under the provisions of this clause.

Action where no specification.

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

Defination of work.

Clause 29 The expression 'work' where used in these conditions shall unless there be something either in the subject or context repugnant to such contractors be constructed and taken to mean the work by or by virtue or the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.

Clause 30. The percentage referred to at page (3) of the tender apply and also (2) the items work for which rate exist in the Schedule of rates.

Contractor

Witness

Executive Engineer

Clause 31 Fair wage Clause (copy enclosed) introduced vide Secretary to Govt. Punjab PWD B&R Shimla Memo No. 118-G dt. 6th November 1951 will binding on the contract and he will strictly follow terms and conditions laid down therein during the execution of the work.

Clause 32 East Punjab PWD Contract Labour Regulations referred to in clause of the Fair Wage Clause will be binding on the contractor who is required to carry out this. He will be required to strictly follow the terms and conditions laid down therein.

Clause 33 The terms and conditions of the agreement have been explained to me/us and I/we clearly understand them.

Schedule showing (approximately) materials to be supplied from the H.S.A.M.Board Store for works contracted to be executed and the rates at which they are to be charged for.

Particulars	Rates at which the material will be charges to the Contractor		Place of delivery
Grey Cement	Per Bag	Rs. 176.75+2%S.C. (Rupees One hundred Seventy Six & paise seventy Five) plus Two Perent Storage charges.	At Central Store Panchkula
<p>Note:- The person of firm submitting the tender should see that rates in the above schedule filled up by the Engineer-in-Charge on the basis of the form prior to the submission of the tender.</p>			
<p>(Signature of Contractor) Signature of Witness</p>		<p>Signature of Executive Engineer</p>	

Detailed Estimate for Supply Installation , testing & Commissioning of fire fighting system etc. for AGRO shopping Mall at Panchkula

SUBHEAD - I - FIRE SUPPRESSION SYSTEM						
PUMPS AND EQUIPMENTS						
S.N.	Description of Items	QTY	Rate	Unit	Amount	Remarks
1.	Supplying, Installation, Testing and Commissioning of ELECTRIC MOTOR DRIVEN, horizontal split casing, end suction type centrifugal fire duty operation pump of 75 HP 2900 rpm (with mechanical seal, bronze impeller & carbon steel EN-8 shaft), capable for a DISCHARGE of 2850 L.P.M. at a HEAD of 70 MTRS., coupled through flexible coupling (i/c coupling guard) with totally enclosed, fan cooled squirrel cage, induction motor suitable for operation on three phase AC supply of 415 + 10% Volts, 50 Hz, fixing the coupled pump and motor on a common structural base frame, making a suitable cement concrete foundation and mounting the complete pump-motor set on the foundation using suitable numbers of anti vibration mountings as per the design / recommendations of the manufacturers specifications. One for Fire Pump and Second for Sprinkler (Make: (Pump: Kirloskar/Mather & Plate/Becon Motor: Kirloskar/ABB/NGEF)	2Nos.	@Rs.248557/-	Each	Rs.497114.00	NS
2.	Supplying, Installation, Testing and Commissioning of ELECTRIC MOTOR DRIVEN, end suction type, centrifugal fire duty operation pump 15 HP, 2900 rpm (with mechanical seal, bronze impeller & carbon steel EN-8 shaft), capable for a DISCHARGE of 180 L.P.M. at a HEAD of 70 MTRS., coupled through flexible coupling (i/c coupling guard) with totally enclosed, fan cooled squirrel cage, induction motor suitable for operation on three phase AC supply of 415 + 10% Volts, 50 Hz, fixing the coupled pump and motor on a common structural base frame, making a suitable cement concrete foundation and mounting the complete pump-motor set on the foundation using suitable numbers of anti vibration mountings as per the design / recommendations of the manufacturer specifications.(Make:Pump: Kirloskar/Mather & Plate/Becon, Motor: Kirloskar/ABB/NGEF)	1No.	@Rs.54763/-	Each	Rs.54763.00	NS
3.	Supplying, Installation, Testing and Commissioning of the DIESEL ENGINE DRIVEN, horizontal split casing, centrifugal, end suction type, fire duty operation pump of 79 BHP, 2900 rpm capable for a DISCHARGE of 2850 L.P.M. at a HEAD of 70 MTRS. directly coupled through flexible coupling with cold starting type 1800 RPM, 4 stroke DIESEL ENGINE complete with all required accessories/systems e.g. couplng guard, fuel service tank of minimum 8 hours full load capacity, semi rotary fuel pump, fuel oil filter, Lube oil pump with filter, 2 Nos. Electrical starting batteries each of 180 AH capacity with suitable MS angle iron stand, Residential exhaust silencer, exhaust pipe duly cladded with mineral wool & aluminium sheet,	1No.	@Rs.472355/-	Each	Rs.472355.00	NS

	engine starting panel having all the gauges i/c tachometer, hour meter and starting switch with keys for manual starting etc. fixing the COUPLED PUMP SET and ENGINE on a common structural base frame, making a suitable cement concrete foundation and mounting the complete Engine- pump set on the foundation using suitable number of anti vibration mounts as per the design.(Make: KEOL/Ashok leyland/Greanes, (Pump: Kirloskar/Mather & Plate/Becon,) Battery:Exid/Amco/Yuasa)					
4.	Supplying, Installation, Testing and Commissioning of ELECTRIC MOTOR DRIVEN, monobloc pump set, central delivery type (with mechanical seal, bronze impeller & carbon steel EN-8 shaft), capable for a DISCHARGE of 450 L.P.M. at a HEAD of 30 MTRS., 7.5 HP, 2900 RPM, coupled through flexible coupling (i/c coupling guard) with totally enclosed, fan cooled squirrel cage, induction motor suitable for operation on three phase AC supply of 415 + 10% Volts, 50 Hz, fixing the coupled pump and motor on a common structural base frame, making a suitable cement concrete foundation and mounting the complete pump-motor set on the foundation using suitable numbers of anti vibration mountings as per the design / recommendations of the manufacturer. (Make: (Pump: Kirloskar/Mather & Plate/Becon Motor: Kirloskar/ABB/NGEF)	6Nos.	@Rs.27696/-	Each	Rs.166176.00	NS
PIPING AND ACCESSORIES						
5.	Supplying, fixing, testing and commissioning of following sizes of ISI marked 'C'-class MS pipes including cutting, welding etc. and providing all fittings such as elbows, reducers, clamps, hangers, flanges, gaskets, nuts, bolts and washers etc. including painting of pipes and fittings with red paint over a coat of ready mixed primer, both of approved quality and shade including cutting holes and chases in brick or RCC walls/slabs and making good the same etc. complete in all respect as required.(Make: Jindal/Tata/BST ISI Mark) (i) 200mm dia (ii) 150mm dia (iii) 100mm dia	50mtr. 250mtr. 30mtr.	@Rs.2474/- @Rs.1663/- @Rs.1130/-	P.M. P.M. P.M.	Rs.123700.00 Rs.415750.00 Rs.33900.00	NS NS NS
6.	Supplying, Laying, Testing and Commissioning of following sizes ISI marked heavy duty ("C" Class) MS pipes including cutting, screwing, welding etc. and providing all fittings such as elbows, reducers, flanges, gaskets, nuts, bolts and washers etc. including painting the pipes with two coats of black bitumen and wrapping asphalt tape/tissue and laying the pipe upto a depth of one meter below ground level including excavating trenches and then refilling the soil in layers not exceeding 20 cms. in depth, consolidating each deposited layer by ramming, watering etc.complete as required.(Make: Jindal/Tata/BST ISI Mark).	250mtr. 30mtr.	@Rs.2041/- @Rs.973/-	P.M. P.M.	Rs.510250.00 Rs.29190.00	NS NS

	(i) 150mm dia (ii) 80mm dia					
7.	Supplying, Installation, Testing and Commissioning of air cushion tank (Air vessel) 200mm dia. & 1200mm height having dished ends made of 8mm thick M.S.Pipe, and providing 25mm dia. ball type brass air release valve , Safety valve, Pressure gauge, suitable M.S.support and minor civil works etc. as required (As per satisfaction of Engineer In charge)	5Nos.	@Rs.10491/-	Each	Rs.52455.00	NS
8.	Supplying, Installation, Testing and Commissioning of ISI marked CAST IRON (WITH Gun metal part) sluice valves flanged at both ends of following sizes tested for a minimum pressure of 16 Kg/cm ² for sheet and 24 Kg/cm ² for body complete with rubber insertion, nuts, bolts and washers etc. as required. (Make:Kirloskar/Kartar/IVC) (i) 200mm dia (ii) 150mm dia (iii)100mm dia (iv)80mm dia	6Nos. 7Nos. 6Nos. 10Nos.	@Rs.48929/- @Rs.31415/- @Rs.18569/- @Rs.14613/-	Each Each Each Each	Rs.293574.00 Rs.219905.00 Rs.111414.00 Rs.146130.00	NS NS NS NS NS
9.	Supplying, Installation, Testing and Commissioning of cast iron, flanged Non return valves of following sizes conforming to relevent IS specifications and tested for a minimum pressure of 16 Kg/cm ² for sheet and 24 Kg/cm ² for shell including providing and fixing nuts, bolts, washers, gaskets etc. complete as required. (Make:Kirloskar/Kartar/IVC) (i) 150mm dia (ii) 100mm dia	6Nos. 3Nos.	@Rs.26899/- @Rs.11921/-	Each Each	Rs.161394.00 Rs.35763.00	NS NS
10.	Supplying, Installation, Testing and Commissioning of CI body flanged (both ends) type Y strainer with (stainless steel / brass mesh) conforming to relevant IS specifications amended upto date and tested for a minimum pressure of 16 Kg/cm ² for sheet and 24 Kg/cm ² for body complete including providing and fixing nuts, bolts, wahsers, gaskets etc. complete as required. (Make:IVC/Kartar/Sant) (i) 200 mm dia.	3Nos.	@Rs.8603/-	Each	Rs.25809.00	NS
11.	SuSupplying, Installation, Testing and Commissioning of brass orific plate having 3 mm nominal thickness , upto 140 mm outer dia. And internal dia. Suitable to reduce the pressure between 3.2 Kg/cm ² to 5.5 Kg/cm ² as required.(As per satisfaction of Engineer In charge)	2Nos.	@Rs.2098/-	Each	Rs.4196.00	NS
12.	Providing and fixing dial type pressure gauge with isolation cock and pipe at hydrant station Dial diameter 100 mm calibration 0-15 Kg (Make:Fiebig/H-Guru/Pricol)	7Nos.	@Rs.769/-	Each	Rs.5383.00	NS

13.	Constructing masonry chamber 1200 mm x 1200 mm x 1000 mm, inside with 75 class designation brick work in cement mortar 1:5 (1 cement: 5 fine sand) for sluice valve / NRV , with heavy duty C.I. top manhole cover of 600mm diameter opening necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design with F.P.S. bricks.	4Nos.	@Rs.10500/-	Each	Rs.42000.00	NS
HYDRANT AND HOSES						
14.	Supplying, Installation, testing and commissioning of double headed stainless steel, ISI marked oblique pattern hydrant landing valve Type 'B' with 100mm dia flanged inlet & two individually controlled 63mm dia instantaneous type female outlet complete with A.B.S. plastic cap and chain, twist release type lug and all accessories complete as required.(Make: Newage/Swastik/Minimax)	21Nos.	@Rs.11890/-	Each	Rs.249690.00	NS
15.	Supplying, Installation, Testing and Commissioning I.S.I. marked external yard hydrant stand post type comprising of the stand post, Type 'A' plain duck foot flanged bends, and double headed stainless steel male coupling valve. The stand post column shall be of MS size 80mm (heavy class). The outlet shall be angled to the ground with an instantaneous spring lock type stainless steel female coupling of 63mm dia for connecting to the hose pipe. (Make: Newage/Swastik/Minimax)	10Nos.	@Rs.7721/-	Each	Rs.77210.00	NS
16.	Supplying, Installation, Testing and Commissioning of one set of Siemese 150 mm dia. GI 'C' class Pipe , instantaneous four way fire brigade inlet connection conforming to relevant IS ammended upto date for tank consisting of 63 mm Gun metal Quadra plate, male inlet coupling with plug & cap chain bends and other accessories etc. complete as reqd. (Make: Newage/Swastik/Minimax)	3Nos.	@Rs.11960/-	Each	Rs.35880.00	NS
17.	Supplying, Installation, Testing and Commissioning single gunmetal suction collecting head, hose coupling (drawout connection) with female outlet complete with 150mm dia. MS Suction pipe (with puddle flange) with a foot valve with strainer complete as required. (Make:Newage/Swastik/Minimax, (Foot valve:Kirloskar/Kartar/Sant)	1Nos	@Rs.9722/-	Each	Rs.9722.00	NS
18.	Supplying, Installation, Testing and Commissioning RRL FIRE hose Type A, I.S.I marked 63mm diax15m long with gunmetal male & female couplings (ISI marked) bound & riveted to hose pipes with copper rivets and copper wire as required. (Make: Newage/Swastik/Minimax)	62Nos.	@Rs.5455/-	Each	Rs.338210.00	NS
19.	SSupplying, Installation, Testing and Commissioning stainless steel 63mm dia. Short Branch Pipe (ISI marked) with 20mm dia nozzle as required. (Make: Newage/Swastik/Minimax)	31Nos.	@Rs.1958/-	Each	RS.60698.00	NS
20.	Supplying, Installation, testing and commissioning of First-Aid-fire Hose reel wall mounting swinging type complete with drum, bracket, stop valve and 20mm dia. 36M long high pressure rubber hose reel tubing with I.S.I. marked gunmetal shutoff nozzle with sutable size and of 5mm thick orifice plate as required. (Make:Newage/Swastik/Minimax)	21Nos.	@Rs.8113/-	Each	Rs.170373.00	NS
21.	Supplying, Installation, Testing and Commissioning standard Fire Man's axe with heavy insulated rubber conforming to IS: amended up to date.	21Nos.	@Rs.1091/-	Each	Rs.22911.00	NS
22.	Supplying, Installation, testing and commissioning of weather proof cabinet for hose fabricated out of 1.6 mm thickness M.S. sheet with front glass door having locking					

	arrangement, suitable to accommodate all the necessary pipes, accessories, fittings etc. including painting the metal portion with one coat of ready mixed primer paint and two coats of synthetic enamel paint of approved shade and quality, sign writing etc.(As per satisfaction of Engineer In charge) (i) Size - 900 mm wide x 600 mm high x 450 mm deep (For Yard Hydrant) (ii) Size - 1500 mm wide x 1000 mm high x 600 mm deep (For Fire Brigade inlet connection).	10Nos. 21Nos.	@Rs.3917/- @Rs.4826/-	Each Each	Rs.39170.00 Rs.101346.00	NS NS
23.	Supplying, Installation, testing and commissioning of double leaf M.S door of various sizes fabricated out of 2.0 mm thick M.S. sheet and M.S angle of 40mm x 40mmx 6mm (nominal size) complete with glass of 6mm thickness (nominal) in front having locking arrangement including painting the metal portion with one coat of ready mixed primer paint and two coats of synthetic enamel paint of approved shade and quality, sign writing etc. (As per satisfaction of Engineer In charge)	5sqmtr.	@rs.2500/-	P.Sqmtr.	Rs.12500.00	NS
24.	Providing & fixing Alarm system for fire pumps comprising of audible hooter and red blinking lamp wired to pressure switch including cost of pressure switch mounted on the air vessel complete in all respects. (As per satisfaction of Engineer In charge)	1Nos.	@Rs.10491/-	Each	Rs.10491.00	NS
SPRINKLER SYSTEM						
25.	Supplying, Installation, Testing and Commissioning of following type of Sprinkler heads UL listed complete with fusible glass capsule of 5 mm dia suitable for horizontal / pendent type sprinkler's head of 68 degree with powder coated conforming to relevant IS ammended upto date complete etc. as reqd. (Make:Newage/HD/Tyco) (i) Pendant Type Sprinkler (ii) Side Wall Sprinkler	2348Nos. 39Nos.	@Rs.196/- @Rs.322/-	Each Each	Rs.460208.00 Rs.12558.00	NS NS
26.	Supplying, Installation, Testing and Commissioning of Sprinkler installation valve with water gong, pressure gauge, drain valve,pipe etc as reqd 150 mm dia size etc. complete as required. (Make:Newage/HD/Tyco)	2Nos.	@Rs.40566/-	Each	Rs.81132.00	NS
27.	Supplying, Installation, Testing and Commissioning of water flow switch i/c connection, controls wiring complete as reqd. (Make: Potter/RC/System sensor)	27Nos.	@Rs.5595/-	Each	Rs.151065.00	NS
28.	Supplying, fixing, testing and commissioning of following sizes of ISI marked 'C'-class MS pipes including cutting, welding etc. and providing all fittings such as elbows, reducers, clamps, hangers, flanges, gaskets, nuts, bolts and washers etc. including painting of pipes and fittings with red paint over a coat of ready mixed primer, both of approved quality and shade including cutting holes and chases in brick or RCC walls/slabs and making good the same etc. complete in all respect as required. (Make: Jindal/Tata/BST ISI Mark) (i) 150mm dia (ii) 100mm dia (iii) 80mm dia (iv) 65mm dia (v) 50mm dia (vi) 40mm dia (vii) 32mm dia (viii) 25mm dia	153mtr. 424mtr. 325mtr. 326mtr. 1045mtr. 1283mtr. 1235mtr. 5412mtr.	@Rs.1663/- @Rs.1130/- @Rs.792/- @Rs.584/- @Rs.484/- @Rs.348/- @Rs.301/- @Rs.233/-	P.M. P.M. P.M. P.M. P.M. P.M. P.M. P.M.	Rs.254439.00 Rs.479120.00 Rs.257400.00 Rs.190384.00 Rs.505780.00 Rs.446484.00 Rs.371735.00 Rs.1260996.00	NS NS NS NS NS NS NS NS

29.	Providing and fixing 25 mm dia inspecting and testing assembly with gunmetal isolation valve, gunmetal sight glass, 50 mm dia bypass valve and connected to 50 mm line drain.(As per satisfaction of Engineer In charge)	1No.	@rs.7274/-	Each	Rs.7274.00	NS
ADDRESSABLE FIRE ALARM SYSTEM						
30.	Intelligent Fire Alarm Equipment Supplying, Installing, Testing and Commissioning of the following as per specification complete with junction box, as and where required.					
	(a) Supply of UL listed 32 bit microprocessor based Intelligent addressable Fire alarm control panel. The panel shall have adequate no. of loops & each loop shall have enough spare capacity sothat panel can take care 1500 Addressable detectors & 150 Addressable device . Moreover panel shall be expandable & networkable to meet future upgradations/ requirement.The panel shall have Six inch long LCD display with touch screen facility and LED's for displaying system status. In addition to the digital screen, the user can view a graphics map which can show a simple building floor plan, having inbuilt NFPA approved Hazmatic symbols.The panel shall provide the user UL listed 12Amp power supply with in built battery charger capable of charging 100AH battery etc. The panel shall have 240 V AC power supply, automatic battery charger, 24 V SMF batteries sufficient for 24 hour in standby and 30 minutes in alarm complet as per specification. Note: Panel components like Loop card, Main Processor, Panel cabinet, Power supply etc shall be UL listed only. (Make: Siemens (Fire Finder) Model: XLS/Sinteso Model:FC2040/Pyrotronics Model:MXL/Mircom/Secutron, Equaint model of Siemens,Sinteso, Pyrotronics.)	1No.	@Rs.1515586/-	Each	Rs.1515586.00	NS
	(b) Supply, installation, testing and commissioning of Repeater Panel with 80 character LCD display with inbuilt Reset, Acknowledge silence, switches complete as reqd. (Make: Siemens (Fire Finder) Model: SSD-C/Sinteso Model:FT-2010A/Pyrotronics Model:RCC-1/Mircom/Secutron Equaint model of Siemens,Sinteso, Pyrotronics, Equaint model of Siemens,Sinteso, Pyrotronics.)	1No.	@Rs.70626/-	Each	Rs.70626.00	NS
	(c) UL listed integral microprocessor intelligent soft addressable type multicriteria Photo + heat detector with moisture free & gold plated terminals in base complete as required.(Make: Siemens (Fire Finder) Model: HFP-11/Sinteso Model:FDOOT221/Pyrotronics Model:FP-11/Mircom/SecutronEquaint model of Siemens,Sinteso, Pyrotronics, Equaint model of Siemens,Sinteso, Pyrotronics.)	1272Nos.	@Rs.4910/-	Each	Rs.6245520.00	NS
	(d) UL listed Intelligent Analogue addressable rate of rise cum fixed heat detector with in-built microprocessor, electronic addressing, complete with mounting base, LED, etc. as required. (Make: Siemens (Fire Finder) Model: HFPT-11/Sinteso Model:FDT221/Pyrotronics Model:FPT-11/Mircom /Secutron Equaint model of Siemens,Sinteso, Pyrotronics.)	50Nos.	@Rs.3150/-	Each	Rs.157500.00	NS
	(e) UL listed Intelligent Addressable manual call point with in - built microprocessor, electronic addressing, complete as required. (Make: Siemens (Fire Finder) Model: HMS-S/Sinteso Model:FDM224/Pyrotronics Model:MSI-10B, Equaint model of Siemens,Sinteso, Pyrotronics.)	55Nos.	@Rs.5206/-	Each	Rs.286330.00	NS
	(f) UL listed intelligent Addressable Hooter cum Strobes complete with in-built microprocessor, electronic addressing with ceiling/ wall mounting arrangements complete as required.	21Nos.	@Rs.8766/-	Each	Rs.184086.00	NS

	(g) UL listed Duct Detectors complete with Intelligent Addressable Monitor Modules with in-built microprocessor, electronic addressing. (Make: Siemens (Fire Finder) /Sinteso /Pyrotronics/Mircom/Secutron, Equilaint model of Siemens,Sinteso, Pyrotronics.)	27Nos.	@Rs.9442/-	Each	Rs.254934.00	NS
	(h) UL listed Fault isolator for isolating shorted dewired and loose circuit between two successive fault isolator with automatic resetting arrangement.(Make: Siemens (Fire Finder) /Sinteso /Pyrotronics/Mircom/Secutron, Equilaint model of Siemens,Sinteso, Pyrotronics.)	85Nos.	@Rs.2933/-	Each	Rs.249305.00	NS
	(i) Supply and installation of LED type Response indicator complete as required. (Make:Agni/Agni Alarm/Agni Surksha/FST)	142Nos.	@Rs.116/-	Each	Rs.16472.00	NS
	(j) Analogue addressable Control modules to shut down AHU's, Fire Dampers, bring lift to ground floor, switch on/off pressurisation fans, cut off power supply etc., UL listed complete as required.(Make: Siemens (Fire Finder) Model: HTRI-R/Sinteso Model:FDCIO224/Pyrotronics Model:TRI-R/Mircom/Secutron, Equilaint model of Siemens,Sinteso, Pyrotronics.)	45Nos.	@Rs.4406/-	Each	Rs.198270.00	NS
	(k) Supplying & Fixing of energy saving display EXIT sign board CFL type specially designed for classic décor with excellent quality high efficiency and long life for single / both side display, well ventilated, powder coated having nominal size of 12" x 6" x 4" made out of stainless steel complete with 11 W CFL lamp, battery backup to be installed on wall / ceiling etc. complete as required. (Make: Legrand/Night Glow/ Agni Alarm)	70Nos.	@Rs.3399/-	Each	Rs.237930.00	NS
31.	Supplying and laying 1.1 KV Grade 2 X 1.5 sq.mm. copper conductor control cables on surface complete with clamps etc as reqd. (Make:Gloster/Skytone/Kalinga/Plaza ISI mark)	30096mtr.	@Rs.141/-	P.M.	Rs.4243536.00	NS
32.	Supplying of 4 x 1.5 sq.mm. PVC insulated PVC sheathed copper conductor armoured control cable of 1.1 KV grade complete as required. (From Main Fire Control Panel to the Repeater Panel). (Make:Gloster/Skytone/Kalinga/Plaza ISI mark)	500mtr.	@Rs.202/-	P.M.	Rs.101000.00	NS
ELECTRICAL WORKS						
33.	Supplying, Installation, Testing and Commissioning of dust, damp and vermin proof free floor standing firefighting panel, fabricated out of suitable size and covered with 2.0mm thick CRCA sheet, hinged doors of 2mm thick CRCA sheet, duly painted complete with Aluminium bus bars, inter-connection with solid copper conductor wires / aluminium strips, neutral links, earth busectc. necessary metering protections & indications and mounted with the following as per specification attached as required. (Make:Millstone/Diamond/ASPL/VVPL) (Make:MCCB,MCB,TPN Switch,Selector switch:GE/L&T/Siemens/ABB/Kaycee)INCOMING (i) 400A, 4P, 50 kA rating MCCB - 01 Nos. (ii) 4 strip 400 Amp. Al. bus bar - 1 Set (iii) (0-400 A) CT operated Ammeter with selector switch & 3 nos. CTs ratio 400/5A (iv) (0 -500V) voltmeter with selector switch & HRC control fuses. - 1 Nos. (v) Coloured LED (Red, Yellow, Blue) phase indicating lamp with control fuses - 3 Nos OUTGOING (i) 250A, 3P , 35kA, MCCB along with CT operated Ammeters (0-400A), set of 3 CTs of 250A/5A, ASS and coloured LED type (RED, GREEN) ON/OFF indication - 03 Nos. (ii) 100A, 3P, 35kA MCCB along with CT operated Ammeter (0-100A), set of 3 CTs of					

	<p>100A/5A, coloured LED type (RED, GREEN) ON/OFF indication - 06 Nos.</p> <p>(iii) 32A, 10kA, TP MCB - 1 No.</p> <p>(iv) DOL starter suitable for 75 HP motor (For Main electrical pump and sprinkler pump) - 2 Nos.</p> <p>(v) DOL starter suitable for 15 HP motor.(For Jockey pump) - 2 Nos.</p> <p>(vi) DIESEL ENGINE FIRE PUMP SECTION</p> <p>(a) Set of control system components such as Aux. Switch, electronic relays,timers, contractors, tripping relays, rotary switches for AC ON /DC ON etc. to make the equipment automatic as per functional requirements - 01 set</p> <p>(b) Battery charging unit of double rate comprising of suitable rating Voltage Transformer, semi conductor rectifier, RC Filter network, fuses on AC & DC for protection and trickle / boost charging selector switch. The charger should be cut off when the Engine is started and the batteries shall be charged from Battery charging alternator provided on the Engine. - 01 set</p> <p>(c) Necessary alarms, visual indicator etc. - 01 set</p> <p>(d) Different selector switches, push button with protections feature etc in the cubical panel. - 01 set</p> <p>(vii) CONTROL PANEL SECTION</p> <p>(a) Colour coded internal wiring and connections etc. with suitable size of Fire retardent, low smoke PVC insulated copper wire / Aluminium links, switch gears, starters, meters, indicating lamps, interlocking with Diesel pump set panel etc. complete as reqd. : 1 Set</p> <p>(b) Providing visual indicator & audible Hooter /Siren with a range of 1 KM including wiring and interconnection etc. : - 01 set</p> <p>(c) Battery charging unit of double rate comprising of suitable rating Voltage Transformer, semi conductor rectifier, RC Filter network, fuses on AC & DC for protection and trickle / boost charging selector switch along with 2 numbers 12 V Sealed maintenancefree batteries of suitable capacity. - 01 set</p> <p>(d) Water Level indicator for under ground water tank and switch to prevent dry running of fire pump l/c audio and visual indication. - 01 set</p> <p>(e) AUTO-MANUAL selector switch for each pump. - 01 set</p> <p>(f) Lock out indication for electric fire pump as well as audio alarm with silencing facility - 1 set</p> <p>(g) Manual resetting push button for return to normal operation of locked out unit as reqd. - 1 set</p> <p>(h) Terminal facility of various audio and visual indications for future BMS system.</p>	1No.	@Rs.538539/-	Each	Rs.538539.00	NS
34.	<p>Fabricating and installing following size of perforated M.S. cable trays including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting etc. as required.</p> <p>(a) 150 mm x 50 mm x 2 mm thickness</p> <p>(b) 300 mm x 50 mm x 2 mm thickness</p>	50mtr. 70mtr.	@Rs.597/- @Rs.913/-	P.M. P.M.	Rs.29850.00 Rs.63910.00	NS NS
35.	<p>Supply and laying of insulated PVC sheathed armoured aluminium conductor and copper conductor cable of 1.1 KV grade as required.(Make:Gloster/Skytone/Kalinga/Plaza ISI mark)</p> <p>(a) 3.5 x 240sq. mm (From Sub-station to Fire Fighting Control Panel)</p>	100mtr.	@Rs.686/-	P.M.	Rs.68600.00	NS

	(b) 3 x 120 sq. mm (From Fire Fighting Control Panel to main fire & sprinkler pump) (c) 3 x 10 sq. mm (From Fire Fighting panel to jockey pump & terrace pumps) (d) 4 x 1.5 sq. mm. Copper conductor armoured cable	40mtr. 30mtr. 250mtr.	@Rs.302/- @Rs.74/- @Rs.50/-	P.M. P.M. P.M.	Rs.12080.00 Rs.2220.00 Rs.12500.00	NS NS NS
36.	Supplying and making end termination with brass compression gland and aluminium lugs for the following size of of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kv grade as required. (a) 3.5 x 240sq. mm. (b) 3 x 120 sq. mm. (c) 3 x 10 sq. mm. (d) 4 x 1.5 sq. mm. Copper control cable	02set 08set 10set 16set	@Rs.200/- @Rs.100/- @Rs.75/- @Rs.50/-	P.set P.set P.set P.set	Rs.400.00 Rs.800.00 Rs.750.00 Rs.800.00	NS NS NS NS
37.	Laying of one number PVC insulated and PVC sheathed XLPE power cables of 1.1 KV grade of size not exceeding 25 sq.mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	30mtr.	@Rs.100/-	P.M.	Rs.3000.00	NS
38.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size not exceeding 25 sq.mm in the existing RCC / HUME / STONEWARE/ Metal pipe / PVC pipe as required.	45mtr.	@Rs.30/-	P.M.	Rs.1350.00	NS
39.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 Kv grade of size not exceeding 25 sq.mm on surface / cable tray as required.	205mtr.	@Rs.46/-	P.M.	Rs.9430.00	NS
40.	Laying of one number PVC insulated and PVC sheathed XLPE power cables of 1.1 Kv grade of size exceeding 120 sq.mm but not exceeding 400 sq.mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	30mtr.	@Rs.112/-	P.M.	Rs.3360.00	NS
41.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 Kv grade of size exceeding 120 sq.mm but not exceeding 400 sq.mm on surface / cable tray as required.	70mtr.	@Rs.76/-	P.M.	Rs.5320.00	NS
42.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size exceeding 25 sq.mm but not exceeding 400 sq.mm in the existing RCC / HUME / STONEWARE/ Metal pipe / PVC Pipe as required.	40mtr.	@Rs.36/-	P.M.	Rs.1440.00	NS
43.	Providing & laying PVC pipe of following sizes for heavy duty pressure jointed with PVC solvent including excavation, testing of joints etc. complete as reqd (Make: AKG/Diplast/Kalinga/Jindal) (a) 150mm dia	85mtr.	@Rs.655/-	P.M.	Rs.55675.00	NS
44.	Earthing with GI earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as reqd.	2Nos.	@Rs.3491/-	Each	Rs.6982.00	NS
45.	Extra for using charcoal and salt for GI plate earth electrode as reqd.	2Nos.	@Rs.1366/-	Each	Rs.2732.00	NS
46.	Providing and fixing 25 mm x 5 mm GI strip in 40 mm dia GI pipe from earth electrode as reqd.	50mtr.	@Rs.203/-	P.M.	Rs.10150.00	NS
47.	Providing and fixing 25 mm x 5 mm GI strip on surface or in recess for connections etc.as reqd.	200mtr.	@Rs.91/-	P.M.	Rs.18200.00	NS
48.	Providing and fixing 6 SWG G.I. Wire on surface or in recess for loop earthing along with the existing surface / recessed conduit / submain wiring / cable as required	350mtr.	@Rs.22/-	P.M.	Rs.7700.00	NS
49.	Supplying, Installation, Testing and Commissioning of ISI marked CAST IRON					

	(WITH SS part) wafer type LEVER type butterfly valves of following sizes tested for a minimum pressure of 16 Kg/cm ² for sheet and 24 Kg/cm ² for body complete with rubber insertion, nuts, bolts and washers and flanges etc. as required.(Make:Advance/ Castle/ C&R/Sant) (a) 150mm dia (b) 100mm dia (c) 80 mm dia	18Nos. 22Nos. 40Nos.	@Rs.6966/- @Rs.5325/- @Rs.3792/-	Each Each Each	Rs.125388.00 Rs.117150.00 Rs.151680.00	NS NS NS
50.	SAFETY EQUIPMENTS					
	Supply & erection of the following equipment at suitable place in the sub-station building as required and as per detailed specifications. (a) Carbon dioxide (CO ₂) type fire extinguisher with suitable base pipe & horn (conforming to IS 2876 with cylinders, fully charged of capacity 4.5 kgm). (b) ABC type fire extinguisher with suitable base pipe & horn (fully charged of capacity 5 kgm ISI marked). (c) Supplying and Fixing ISI marked Fire Bucket Capacity 9ltrs. (Set of three) along with suitable MS channel / tube stand including filling with sand etc. as required. (d) Providing & fixing including grouting on wall with angle iron frame of size 50 mm x 50 mm x 6 mm thick complete with 6 Nos. Fire buckets with clean sand as reqd. (e) Pdg. and fixing dual type pressure switch suitable for 1-10 kg./cm ² including electrical connections setting of cut –in and cut –out pressure. Complete as required. (Make : Indfoss)	60Nos. 60Nos. 4Nos. 4Nos. 6Nos.	@Rs.8400/- @Rs.4500/- @Rs.669/- @Rs.800/- @Rs.2850/-	Each Each Each Each Each	Rs.504000.00 Rs.270000.00 Rs.2676.00 Rs.3200.00 Rs.17100.00	NS NS NS NS NS
		TOTAL SUB HEAD -I			Rs.24849959.00	

Executive Engineer(E)

ADDITIONAL CONDITIONS

1. Work shall be executed strictly in accordance with the Haryana Public Works Department specification Volume I, 1990 (One thousand Nine Hundred and Ninty) Edition correction upto date, speciation of the estimate and to the entire satisfaction of the Engineer-in-charge.
2. Should the tenderer withdraw or modify his tender within ninty days from the date of opening tenders he will be blacklisted and his earnest money forfeited.
3. Amount of the work may be increased or decreased and any item omitted, or substituted according to the requirement of the Department and no claim on this account will be entertained.
4. The security shall not be refunded till three months after the work has been completed i.e finally measured.
5. The Executive Engineer in charge reserves the option to take away any item of work or any part there of at any time during the congency of contract and allot it to any other agency with due notice to the contractor without liability of any kind of payment of any compensation.
6. Any material left at site one month after completion of work shall become the property of the Board and no payment shall be made to the Contractor for the material.
7. The contractor has to make his own arrangement for water, bricks, wood work and every other item require directly or indirectly for completion of work except those provided in DNIT.
8. No pit should be dug by the contractor near the site of work for taking out earth for use on the work. In case of defaults, the pits so dug will be filled in by the department at the cost of the contractor plus fifteen per cent departmental charges.
9. No claim shall be entertained on account of increase in freight, price of labour and material due to any cause whatsoever.
10. Actual quantities of completed and accepted work will be paid far.
11. In case of emergency the contractor shall be required to pay his labour every day and if this is not done Board will make requisite payment and recover the same from the Contractor.
12. The rates given in the attached schedule of rates are Inclusive of octroi, terminal tax, royalty and other local taxes and charges.
13. In case any quantity of cement, steel (or any other commodity) issued to the contractor by the Engineer-in-charge for use (directly on the aforesaid work) or manufacture of material required in connection therewith is disposed of by him or lost or allowed to get deteriorated the cost of such quantity of that material shall without prejudice to other rights and remedies available to the Government be recovered from the contractor at double the rate at which it agreed to be supplied to the contractor.
14. The contractor will arrange his own tools and plants and make his own arrangement for water required for works.
15. Fair wage clauses as per printed sheet attached.
16. The contractor will pay octroi and incidental charges himself & will make his own arrangements for water, bricks and every other item required directly or indirectly for completion of the work except the material which will be issued by the department as maintained in the contract, at page
17. The contractor shall not be entitled to any payment on account of work done till he signs the agreement and the same is accepted by the competent authority.
18. All the concrete work shall have to be done with the use of concrete Mixer as per HSR chapter-10.
19. No carriage or incidental charges will be borne by Board for moving the material beyond the place where the contractor has agreed to take delivery thereof.
20. The contractor shall be responsible for loss or damages to any material issued to him by the department for any cause whatsoever.
21. No claim whatsoever shall be entertained for any loss or damages caused by rains, flood or any other act of God.
22. All the charges of royalty, Municipal, Forest or Octroi charges shall be paid by the contractor and are included in his rates.

23. The contractor shall provide at his own cost and expense all labour and materials etc necessary for layout and check of any portion of work whenever required by the Engineer-in charge or his staff and nothing extra shall be paid for that.
24. Over writing on tender is strictly forbidden and tender containing any doubtful figures will be rejected. Correction if any should be properly initialed by the tendering contractors.
25. The issue rate of cement is exclusive of the cost of empty bags and the contractor is required to return to the Deptt. in good condition, all the empty cement bags issued to him from Board's Godown, free of cost. In case of failure recovery at the rate approved by Engineer-in-Charge will be made.
26. Conditional tender will not be considered at all and contractors submitting the conditional tenders are liable to black listed.
27. The contractor shall be responsible for housing sanitations & medical treatment of the labour employed on the work and shall carry out all the Rules framed on the subject.
28. In the event of his failure to provide any or all the above amenities the same shall be provided by the deptt and the cost thereof shall be recovered from the contractor. Any dispute regarding the above points shall be settled by the Engineer-in-charge whose decision shall be final.
29. The material will be issued if available in Stock, otherwise assistance in terms of obtaining licence/permit shall be rendered by the Department. Any delay in supply of material would not justify any claim of the contractor on the Department.
30. For excessive consumption of material following action will be taken:-
- a) For excess consumption :
 - (i) Upto 5% no action called for.
 - (ii) Above 5% the recovery will be affected at double rate provided in agreement.
 - b) For less consumption:
 - (i) Upto 5 percent recovery Action as per provision/specification of HSR Chapter-27 Note -3
 - (ii) More than 5 Percent.
 1. The rates of the item reduced by the Engineer-in-charge.
 2. Where it can not be possible to determine the exact items recovery of the material thus saved will be made at issue rate.
 3. Where item becomes non-schedule/non-agreement the rate of such item will be sanctioned by the competent authority.
 4. In case it is felt by the Executive Engineer, that less consumption of the material has effected the stability of the structure adversely he can reject the work & decision in such matters of Chief Engineer shall be final.
31. For all concrete 1:2:4 Badarpur sand will be used and no extra carriage for the same will be paid.
32. The contractor will make his own arrangement for Mixer & Vibrator if so desired by the Engineer-in-Charge.
33. The contractor will have to make his own arrangement for water & curing the concrete & other cement work.
34. Schedule showing (approximately) materials to be supplied from the Public Works Store for works contracted to be executed and the rates at which they are to be charged for.

Particulars	Rates at which the material Will be charged to the contractor	Place of/ delivery
Grey Cement	Per Bag Rs. 176.75+2%S.C. (Rupees One hundred Seventy Six & paise seventy Five) plus Two Perent Storage charges	At Central Store Karnal

Note:- The Person or firm submitting the tender should see that rates in the above Schedule is filled up by the Engineer-in-Charge on the basis of the form prior to the submission of the tender.

FAIR WAGE CLAUSE

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

EXPLANATION:- Fair wage whether for time or place work notified at the time of inviting tender for the work. Where such wages have not been so notified, at the wages prescribed by the PWD B & R Branch Haryana for the district in which the work is done.

- (b) Contractor shall, notwithstanding the provision of any agreement to the contractor cause to be paid fair wages to labourer indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, all the labourers had been directly employed by him.
- (c) In respect of all labour directly or indirectly employed on the work for performance of the contractor's part of this agreement the contractor shall comply, with or clause to be complied with the Haryana (1) PWD, Contractor's labour Regulation made by the Govt. from time to time in regard the payment of wages, wage period deductions from wages recovery of wages not paid and deduction unauthorized made, maintenance of wages register, wage cause publication of wages and other terms of employment inspection and submission of periodical returns all other matters of such like nature.
- (d) The XEN or the SDO concerned shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good to the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of contract made from him their wages which are not justified by the term of the contract or the non-observance of regulation referred to in clause (C) above.
- (e) Vis-à-vis Haryana Govt. the contractor shall be primarily liable for all payment be made under and for observance of the regulations aforesaid without prejudice to his rights to claims indemnity from his Sub-contractors.
- (f) The regulation shall deemed to be a part of this contract and any breach their of shall be deemed to a breach of their contractor.

ADDITIONAL CONDITIONS (FOR SUPPLY)

1. Work will be executed strictly in accordance with the Haryana Public Work Deptt. Specification of latest edition and to the entire satisfaction of Engineer-in-charge.
2. If a contractor withdraws or amends his offer within a period of 90 days from the date of opening of tenders he is liable to be black listed & his earnest money forfeited.
3. The XEN, Board reserves the option to take away any item of work or any part their of at any time during the congency of the Contract and re allot it to any other agency with due notice to the contractor without liability of any kind or payment of any compensation. Appeal shall be with SE.
4. No claim shall be entertained on account of increase of price of labour and material due to any cause whatsoever.
5. The security shall not be refunded till three months after the work has been completed i.e. finally measured by the Engineer-in-Charge.
6. Actual quantities of completed and accepted work will only be paid.
7. The contractor shall not be entitled to any payment on account of work done till he signs agreement and the same is accepted by the competent authority.

8. The contractor shall be responsible for housing sanitation and Medical treatment of the Labour Employed on the work & shall carry out all the rules framed on the subject.
9. In the event of his future to provide any of all the above amenities, the same shall be provided by Board & cost thereof shall be recovered from the contractor. Any dispute regarding the above points settled by Engineer-in-charge whose decision shall be final.
10. The Royalty and Sales 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 Board.
11. Fair wage clause as per printed sheet attached.
12. Over writing in the tender is strictly forbidden and correction if any should be properly initialed.
13. Tenders containing doubtful figures will be rejected.
14. The amount of work can be increased or decreased according to the requirements of the deptt. and no claim on the account will be entertained.
15. No claim for time extension on the basis of rainy season & interruption caused as a result at flooding of natural drains/culverts shall be entertained and considered. It is presumed that the contractual agency takes cognizance of such interruption while tendering & will finish the supply within the stipulated period.

(Signature of Contractor)

Executive Engineer (E)
HSAM Board, Panchkula

CONDITION

1. 10% security shall be deducted from each running bills of the agency, subject to condition that overall amount of security should not exceed 5% of agreement amount and the security shall be returned after three month from the date of final payment of the completed work.
2. The above rates are for completed work and completed items including cost of labour material and plants etc. unless otherwise specified.
3. The scope of the work can be increased/decreased according to the actual requirement of the work at site of work and nothing in this connection shall be payable/entertained.
4. Nothing shall be paid for any damage done by rains, floods or any other act of God.
5. The material shall be strictly according to the specifications specified against each item of the work.
7. Nothing shall be paid for any jungle clearance, which the agency shall have to carryout with in the quoted rates.
8. The whole proposed work shall be carried out strictly in accordance with the relevant chapter and specification specified in each above items as applicable for these items with upto date correction/amendments.
9. The rates quoted by the contractor shall includes the entire cost of royalty Municipal, forest or any other taxes.
10. In case the contractor makes part and does not hand over the material and uses tactics the Engineer-in-charge shall have right to employee department labour for breaking the material to proper gauge screening stacking or restacking at the risk and cost of the supplier besides action uner Clause-II and Claue-III of the contract.
11. Is, it appear to the Executive Engineer or his subordinates in-charge of the work that the work has been executed with skillful or unskillful workman ship or with material of any interior description of that any material or article provided by him for the execution of the work are unsound or of a quality inferior that contracted or other wise not in accordance with the contract, the contractor shall be demand in writing from the Executive Engineer specify the work material or articles complained or not with standing that the same have been advertently passes certified and paid for fortnight recently or re-contract of the work so specified and vide their proper and suitable material on articles so specified and provided other proper charge and contained in the event of his failing which to do so within a period to be specified by the Executive Engineer in his demand that the contractor shall liable to pay compensation at the rates of one percent on the amount of estimate for every day non-exceeding ten days use may at the risk and expenses in all respect of the contractor.

- 12 The rates quoted by the agency shall be considered as through rates and subject to no premium to market fluctuation of shortage of new materials or transportation problems.
- 13 The material collection in excess shall not be measured and if not remove within one month of final measurement shall become the property of the Board and no claims in this account will be entertained.
- 14 Other items carried out, if any will be paid as per Haryana PWD schedule of rate 1988, IInd edition with upto date correction slips subject to the accepted premium/allotment.
- 15 All clauses and notes given in the Haryana schedule of rates in metric unit with upto date correction slip shall be applicable to all above items wherever necessary.
- 16 The description rates unit etc. of above items shall be corrected as per Haryana PWD schedule of rate 1988 (second edition) in case of any error of omission.
- 17 Items number in brackets referred to above are of Haryana PWD schedule of rate 1988 (second edition).
- 18 Nothing shall be paid foreseen delays on accounts of not availability of any kind of material or drawing and design.
- 19 No premium shall be payable on the items, which are not, provided in Haryana PWD schedule of rates 1988 second edition.
- 20 The contractor shall provide suitable measuring arrangement at site of checking of various articles brought by him and to ensure mixing in specified preparation.
- 21 The contractor shall have to arrange for quality to Engineer-in-charge of work costing more than Rs.5.0 lacs is under execution and qualified sanctioned officer (Diploma Holder) in case of work less than 2 lacs in under execution at site who is competent to take Nishans, layout and understand the plans and other technical details. He should be duly authorized to receive and implement all instructions given by the Engineer-in-charge at site of work.
- 22 The whole work shall be carried out strictly in accordance with the Haryana PWD specifications 1990 edition as applicable in Haryana State with upto date correction slip.
- 23 The above rates are for complete work including cost of all materials, labour, tools and plants, and water etc. unless otherwise specified.
- 24 The royalty and sales 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 Board.
- 25 Fair wage clauses as per printed sheet attached.

- 26 Over writing in the tender is strictly for bidden and correction if any should be properly intimated.
- 27 Tender containing doubtful figures will be rejected.
- 28 The amount of work can be increased or decreased according to the requirements of the Department and no claim on this will be entertained.
- 29 No claim for time extension on the basis of rainy season and interruption caused as a result of flooding of natural drains shall be entertained and considered. It is presumed that the contractual agency takes consistence of such interruption while tendering and will finish the supply within the stipulated period.
- 30 Sales tax, Income tax with surcharge and labour cess as applicable time to time will be deducted on the gross amount of any bill paid to the contractor.
- 31 In case there is any mistake in rates & conditions as mentioned in the allotment letter, the payment of the item will be made to the agency as per quoted rates and conditions in the tender/subsequent undertaking.
- 32 Any conditional rebate contrary to the approved DNIT will not be considered for the purpose of being lowest.
33. Analysis of ratefor NS items not provided in the NIT / Haryana schedule of rates 1988 volume based on rates of material and labour provided in Haryana PWD schedule of rates with admissible contract profit and over head charges / abatment. In case each rates materials, wages of labour actually involve at site in the NS items are not provided in the Haryana PWD schedule or rates. The same shall be payable as per actual / lowest market rate plus admissible conclusion profit and over head charges and for such items for materials. The agency shall have to produce originally vouchers which shall be subject to verification by the Engineer-in-charge deemed necessary the NS rates shall be approved by the Competent authority as usual.
34. The chapter and item referred to above are as per Haryana common schedule of rates , 1988 along with additional amendment issued by the Chief Engineer Haryana PWD (B&R) Branch Chandigarh.
35. The whole work shall be executed in accordance with the P.B. PWD specification (1963 addition) alongwith upto date amendment as applicable to Sr. state and the Indian Electricity Act,1960 and the Indian Electricity rule 1934 along with upto date amendments.
36. The material to be used by the contractor should be got approved from the Engineer-in-charge.
37. The material shall be of approved make confirming to the Indian standard specification or unless specified otherwise.

38. The contractor shall have to purchase material from manufacture or their authorized dealers.
39. Only ISI make cable will be allowed to be purchased / use in the execution of the work as approved by the Engineer-in-charge.
40. The contractor shall submit necessary test report of the installation of the work as approved by the Engineer-in-charge.
41. The contractor shall quoted his/their rates in unit as specified above against each item of works any division from this conditions result to be rejected and he/ they shall have no claim what so ever .
42. Requisite quantity of cement shall be arranged by the Board and recovery shall be effected on department issue rate plus store charges fixed by the Board at the time of opening of tenders.
43. The requisite quantity of materials in accordance with the PWD specification , alongwith upto date amendment shall be arranged by the contractor and stated at site . The material duly stocked shall be got approved from the Engineer-in-charge before its use any sub-standard material shall not be allowed to be used measured and paid for.

Certified that this D.N.I.T. contained ___**37** (Thirty seven only)___ pages only.

EXECUTIVE ENGINEER (E)
H.S.A.M. BOARD,
Panchkula