

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

TENDER DOCUMENT FOR TWO-BID SYSTEM

Name of Work : **1. Erection of 110 KV substation at Jhansi, Jhansi District, Uttar Pradesh.**

Note : The tenderer must read carefully every page of the details, conditions of technical bid and submit in the sealed envelop of technical bid after signing of each page of the conditions.

Year - 2015

Executive Engineer

TENDER DOCUMENT-04

VOLUME . I

TECHNICAL-BID

NAME OF WORK : I ek toknh vkokl h; ; kstuk ds vlr xlr Mk0 jke eukgj
ykfg; kuxj ; kstuk ds ikdV ds ea 85 i kb eftys VkbI &
Hkouka dk fuekZ k dk; A

Estimated Cost : रु 784.51 लाख

Cost of Tender : रु 5700/

Earnest Money : रु 15.70 लाख

Time of Completion : 18 माह

Defects Liability Period : 12 month from the actual Date
of completion

Validity of Tender : 3 माह

Date of purchase to Tender : 10-06-15

Date of Opening of : 12-06-15

(1) Technical Bid (R.F.Q.) :

(2) Financial Bid : Laterly Informed to successful
bidder in (R.F.Q.)

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TECHNICAL – BID INDEX

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INSTRUCTIONS TO THE TENDERER

- 1 The tender shall be submitted as two bid system in accordance with the procedures detailed here in specified documents shall be submitted in envelope of appropriate size, which shall be duly sealed.
- 2 Conditional tender will not be considered.
- 3 Tender documents are to be submitted in two envelopes marked No. 1 shall contain for Technical Bid and marked No. 2 for Financial Bid. The details of documents to be submitted with each envelope are given below.

LIST OF DOCUMENTS TO BE SUBMITTED

The details or document to be submitted with each envelope are given below :

ENVELOPE MARKED -1 (Technical Bid)

- 1 Earnest money in the shape of NSC/FDR/CDR of schedule bank duly pledged in favour of **Vice-Chairman, Meerut Development Authority, Meerut**
- 2 Duly filled up pre-qualification documents appended with the tenders.
- 3 List of works satisfactorily completed during the last three financial years in Govt./Semi-Govt along with certificates (Attested copy) clearly indicating Date of start, date of completion, amount of work actually executed. Experience certificates should clearly indicate the head bifurcation of work i.e. Road, Drain, Sewer, Building, Electrical etc.
- 4 Proof of Liquid Assets duly certified by nationalised/Scheduled bank and issued not before six months as per pre-qualification requirement as per Appendix B+(original or attested copy will be entertained).
- 5 Latest income tax clearance Certificate. Valid till date (Original or attested copy) clearly indicating turnover of last three assessment years. In case, ITC not available then Audited Balance Sheet duly counter signed by C.A. for last three years clearly indicating turnover and TDS may be included.
- 6 List of tools and plants. Affidavit by Notary on minimum Rs. 10/- non judicial stamp paper (original)
- 7 List of Technical staff with their qualification professional experience and length of the service with the firm Affidavit by Notary on min. Rs. 10/- non-judicial stamp paper (original)
- 8 Original Copy / Attested copy of the partnership deed if it is a partnership firm and Attested copy of registration certificate in case of company, sole proprietorship declaration in the case of sole proprietorship firm.
- 9 Authority letter in original or attested by notary not more than one year old of the firm/tenderer in favour of the person who has signed the tender documents with telephone No. and complete postal address.
- 10 Failing in compliance any of the above conditions will lead to rejection of tender.

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ENVELOPE MARKED – 2 (Price Bid)

- 1 Price bid (R.F.P.) will be invited from successful bidders AFTER EVALUATING (R.F.Q.) separately.
- 2 Non judicial stamp paper of Rs. 100.00 (Rupees Hundred Only) of U.P. along with revenue stamp.

SYSTEM TO OPEN TENDERS:

- 1 Envelope No. 1 containing the tender fee ,earnest money deposit and pre-qualification documents shall be opened first on specified date and time.
- 2 Sealed price bids of only successful bidders shall be received after informing by notice and web site of MDA as described in notice on fixed date. The quotes rates of various tenders will be read out Tenderers desirous to be present shall be allowed at the time of opening of price bid.

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GENERAL TERMS AND CONDITIONS OF TENDER

- 1 Earnest money is required to be deposited in the shape of NSC/FDR/CDR of the Scheduled Bank of India duly pledged in favour of V.C., M.D.A. Meerut.
Earnest Money deposit shall as per published in newspaper.
- 2 Tender of the firms who have litigation in Court of Law against MDA will not be considered.
- 3 Tenders of firms liable to be rejected who have failed to complete the work timely and work is still pending for more than a year in the Authority.
- 4 Tender documents shall be available for sale from office of the Chief Engineer MDA after depositing the cost of tender in account office to the Cashier M.D.A., Meerut.
- 5 Tender will be received up to 3.00 P.M. dated as mentioned in tender notice and the pre-qualification bids shall be opened on the same date at 4.00 P.M. in the presence of available tenderers.
- 6 The financial bids of the pre-qualified bidder shall be opened on predeclared date at 4.00 PM in the office of CEMDA.
- 7 V.C. MDA reserves the right to reject any or all tenders without assigning any reasons.
- 8 Defect liability period for the executed work shall be **one year** after the actual date of completion.
9. **JOINT VENTURE FIRM:**

Firms forming joint venture for qualifying in the pre - qualification bid of said tender are not eligible . Experience / turn over / liquid assets of joint venture firm working under one name may be considered . Individual experience / liquid assets of constituents firms shall not be added in joint venture firms.

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SPECIAL CONDITIONS OF THE CONTRACT

GENERAL

- 1 These special conditions shall be read in conjunctions with the General conditions of the contract. Where the provisions of these Special Conditions are at Variance with the provisions of the General Conditions of the contract the provisions of these special conditions shall take precedence.
- 2 The Contractor is expected to be well conversant with the conditions of GPW from 9 as applicable to MDA, works (General conditions of the contract) which shall be part of the agreement.
- 3 The tenderer are advised to see carefully the site of work and structural / architectural drawings etc. before actually submitting their tender. The structural / architectural drawings for the work under the scope of this tender can be seen in the office of the CE/EE, MDA, Meerut on any working day between 11:00 A.M. to 4:00 P.M.

TENDERER TO ENSURE AND NOTE

- 4 The tender is to be addressed to the Executive Engineer, M.D.A. and should be submitted with the name of the work written on the cover as per directions given in instructions to the tenderers. The tenders may either be sent by Registered Post or may be deposited in the tender box specially kept for the purpose in the office of the C.E. M.D.A. Meerut and in Allahabad bank Extension Counter at M.D.A. main office. No excuse for the late receipt of the tenders due to loss or delay in postal transit shall be considered.
- 5 No page for the tender shall be removed and the entire set must be submitted, as it is, Failure to comply the instructions may result in the rejection of the tender.
- 6 All entries made by the tenderer should be in one link and should be legible Tender should not contain erasures and corrections and if any they should bear the dated initials of the tenderer. The tenderer must sign each page of the tender.
- 7 No additions of alternations are permitted in the tender papers. If tenderer does so, the same shall not be considered and such tender is liable to be rejected.
- 8 Any tenderer not fulfilling all the conditions is likely to be rejected.
- 9 No refund of the cost of tender is claimable for tenders not accepted or for tenders not submitted.
- 10 Contractor has to sign the agreement after submission of stamp paper within ten days from the date of award of the work. In case of delay on the part of the contractor beyond ten days, a penalty of Rs 1000/- per day will be imposed and shall be recoverable from contractor and will be deducted from any dues of Contractor.

EARNEST MONEY AND SECURITY DEPOSIT

- 11 If the contractor withdraws his offer/tender, or modified his offer/tender, before acceptance of the tender, his entire earnest money at the time of tender will be forfeited by the authority.
- 12 The contractor shall have to deposit the required earnest money at the time of tender.
- 13 The security of tender is already deposited in the shape of earnest money in advance with tender which shall be released after satisfaction of Engineer in charge and completion of 12 months said as defect liability period from the date of final payment made by authority.
- 14 The tenderer shall submit Non-Judicial Stamp Paper Purchased only from treasury (as per stamp act and G.O. dated 14-08-2002 if I.G. Registration) of following value.
 - 14.1 - Rs. 125.00 per thousand in case of cash security according to article 40-A.
 - 14.2 - Rs 70.00 per thousand in case of F.D.R/N.S.C./K.V.P. etc according to article 40-B
 - 14.3 - Rs. 100.00 only in case of guarantee of two persons as third party according to article 57.
 - 14.4 - Rs. 5.00 per thousand to the maximum of Rs. 10,000.00 in case of Bank Guarantee according to article 12-A.
- 15 The earnest money deposited by the unsuccessful bidder shall be returned within thirty days from the days of acceptance of the tender or within 30 days or receiving the request from tenderer whichever is later.
- 16 After the acceptance of the tender, the earnest money of the successful Contractors shall be

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converted into the Security deposit as said in -13.

- 17 The Security deposited shall be refunded to the contractor after completion of defect liability period 12 months from the actual date of final payment made by authority.

REGARDING MATERIALS

- 18 All the materials for the works shall be arranged by the contractor at his own cost.
- 19 All the material collected by the contractor during execution of work or otherwise shall be properly stacked and arranged as directed by the Engineer-in-Charge.
- 20 Contractor shall have to make their own arrangement for water and electricity at the site of work. The water should fit for drinking in case the authority supplies the water, the contractor shall have to pay charges at rate fixed by Authority.
- 21 M.D.A. shall give necessary recommendation letter to the concerned authority for giving water and power connection to the contractor. However any delay in getting water or power connection shall not entitle the contractor for any compensation or extension in completion period.
- 22 The stone ballast and grit will be blue textured and free of soft pieces the guage of the ballast shall be as per detailed latest specifications of CPWD/PWD including all correction Slips till date.
- 23 The contractors is to stack the metal at the road beams first according to the size of complete with stack number as directed by the E/I and no metal shall be stacked on road embankment. The metal shall be allowed to spread for consolidation only after recording of measurements and taken into road metal account register.
- 24 A deduction @ 7.5% shall be made from stack measurements of stone metal to arrive at net quantity for the purpose of payment.
- 25 Cement and steel shall have to be arranged by the contractor only from the approved manufacture / re-rollers who hold ISI license only cement and steel should be ISI marked and to the entire satisfaction of the E/I. Test certificate for steel will have to be submitted by the contractor at the time when steel will be supplied at site.
- 26 With each lot of material arranged by the contractor for construction work he shall produce proper receipt of purchase from the manufacture-roller.
- 27 The contractor has to arrange the test certificates of each lot from an approved test laboratory. Engineer-in-charge, MDA shall have the right to take sample for testing as per CPWD / ISI norms or directed by the Engineer in charge and get it tested. The contractor shall bear all charges of sampling, carriage and testing etc.
- 28 The cement shall be stored at site of work as per B/S requirement and shall be kept under double lock and key system by the contractor at his own cost.
- 29 The Contractor in a register at site shall keep complete accounting of material purchased and consumed. All register at site shall have machine numbered pages.
- 30 The contractor shall provide at his own cost proper storage facility for the materials brought by him to prevent any loss, damage or deterioration of the same.
- 31 The contractor shall confine his equipment storage of materials operation of his works and people to the limits as directed by the E/I and shall not unnecessarily spread over the premises with his materials and hutment.
- 32 The Contractor shall make arrangement for watch and ward of the material at his own cost.
- 33 All the materials and workmanship shall be as per specifications described in the contract and in cases not covered in the contract these shall be in accordance with the E/I instructions and shall be subjected from time to time as the E/I may direct at places of manufacture at the work site or in the MDA Laboratory or recognized laboratory of the city the contractor shall provide conveyances labour and material required for examining measuring and testing of the work and a quality of materials, used contractor shall supply sample of the materials get them approved before using in the work. The cost of such conveyance, labour and materials, provided for testing purpose, testing charges and for examining the work and for proper completion of the same shall be borne by the contractor and no extra payment shall be made for the same.
- 34 Samples of materials / equipments (electrical) and item of work shall have to be got approved by the contractor from EII before execution.
- 35 The contractor shall ensure to consume the within its expiry date. The material if consumed after the expiry date the affected work will have to be dismantled or the recovery shall be made by the Authority at the rate of double the cost of work in which such materials consumed.

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LABOUR REGULATIONS

- 36 The contractor will have to follow all existing rules and regulations of the Govt. and labour department regarding the labour employed by him without entitling him for any extra claim on this account.
- 37 The contractor shall be responsible for the damages (s) done to any property of injury to any person whatsoever caused by him or any body in his employment or caused in consequence of his work. He will indemnify and keep the Govt. indemnified against claims demands proceedings charges. Cost charges and expenses whatsoever in respect of or in relation to any such injuries or damage. The contractor shall take a necessary precautions for the safety of his employees on the work and shall comply with all applicable provision of safety laws and building codes to prevent accident or injuries to persons on the work.
- 38 Labour cess @1% of total work done will be deducted from the bills of contractor. Labour cess will not claimed by contractor in any means .

EXECUTION OF WORK

- 39 All drawings and designs will be supplied according to the necessity of the particular work and the contractor will not have any claim for compensation in case of late supply of necessary design drawings.
- 40 For carrying out the work the contractor shall be provided with one set of working drawing. Additional copies if required will be supplied to him on payment of additional charges as decided by Engineer-in-Charge.
- 41 The contractor shall be wholly responsible for setting out the works and for the corrections of the positions levels dimensions and alignment according to the plan/drawings including all necessary instruments page poles, etc and other material required for the purpose to the satisfaction of E/I.
- 42 The work shall be executed as per program drawn by the contractor and approved by the E/I. If the part of the site is not available due to any reason the program of the contractor
- 43 If the Engineer-in-charge, MDA shall find that the work progress is slow and feels that the work will not be completed in the time specified then the Engineer-in-Charge, Meerut Development Authority, shall order the contractor to work day and nights and / or on holidays and the contractor shall obey these orders without objection or request for compensation. No compensation whatsoever shall be paid on this account.
- 44 In the event of working at night, the contractor shall provide sufficient lighting safety arrangements for working staff to the satisfaction of the Engineer-in-charge, MDA Any order or approval issued under this clause by the Engineer-in-charge, MDA shall not relieve the contractor from of diminish his obligation under the contract.

CONTRACTORS SUPERVISORY STAFF

- 45 Within fifteen days of the registration of the contract bound the contractor shall have to notify in writing the names of his two authorized Representatives. One of them will always be available at the site of work to receive technical order and the other for instruction for issue of material sand other miscellaneous works. The contractor shall be fully responsible for the order received by his representative or the materials received by his representative.
- 46 The contractor shall provide sufficient supervision to the work using the skill and attention. He shall deploy following experienced engineer on the work throughout its currency.

Works costing more than Rs. 25.00 Lacs

One diploma Engineer

and up to 50.00 Lacs

Works costing between Rs. 50.00

One Graduate Engineer

and up to 100.00 Lacs

One diploma Engineer

Works costing between Rs. 100.00 to

Two Graduate Engineer

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500.00 Lacs	Two diploma Engineer
Works costing between Rs. 500.00 to	Two Graduate Engineer
and above	Three diploma Engineer

The Engineer\$ deployed by contractor shall be got approved in writing from the Engineer-in-charge (whose approval at any time can be withdrawn) for supervision of the work and to receive directions and instructions of the work from E/I. on behalf of contractor. The supervisory staff of the contractor shall not be changed without obtaining the approval of E/I. In, he event of non presence of these Engineers, Authority will deduct @ Rs 10,000.00 PM per graduate Engineer and @ Rs. 6,000.00 PM per diploma Engineer which will be non refundable. The decision of Executive Engineer in regards to presence and/or absence of such engineer from the work shall be final and binding upon the contractor. The contractor will have to remove and person employed on the work if ordered by the E/I for any reason.

- 47 If the contractor does not use at site the T&P as mentioned in the Appendix Dqthe same shall be arranged by the authority and the necessary deductions for the rental of machinery and T&P shall be made from contractors bills or penalty as deemed fit shall be imposed for which no claim shall be entertained.

WORK TO BE DONE AS PER SPECIFICATIONS

- 48 The specification to be follows for the execution of the works shall be :
- a) The latest MOST/CPWD/PWD specification for works with correction slips up to date of receipt of tender.
 - b) Relevant ISI standard for work not covered by the above.
 - c) Material bearing ISI Mark shall be given first preference for use in works for all articles without ISI marks the quality shall be judged by the relevant ISI specifications.
- 49 The Bill of Quantities is to be read in conjunction with the Form of tender drawings conditions of contract specifications as these documents are jointly explanatory and descriptive of the works included in contract. In case of contract amongst description of the items (s) specifications conditions and drawings, the following order of precedence shall be followed.
- a) Provision as per direction of items (s)
 - b) Provision in special conditions of contract.
 - c) Provision in specification
 - d) In absence of above the decision of Engineer-in-charge shall be final & binding.
- 49 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 the E/I and other authority Officials at all times during the usual working hours all other times, If notice for the inspection of site by the E/I or any other official is given to the contractor should either himself be present to receive orders and instructions or contractors agent shall be considered to have the same force as if they had been given to the contractor himself. The contractor shall also provide all facilities necessary for inspection of the work by the E/I or their official for which n payment shall be made to the contractor.

Engineer-in-charge MDA shall have the right to inspect the work and related documents either through their authorized officers or any agencies appointed for such purpose as and when the need is felt in order to assess the work progress, the quality of material used in the constructions issued in pursuance of the above inspections.

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- 50 SITE ORDER BOOK shall be maintained at the site of the work in which instructions shall be given to the contractor or in his absence by his authorized representative or agent and in such case it will be presumed the same have been conveyed to him in time.

VARIATIONS

- 51 The quantities given in the bill of quantities are approximate and are liable to variation up to 10% with explaining the clear cause of variation in the interest of said work by Engineer in charge on same rates as described in tender.

RATE

- 52 In quoting their rates the Tenderer should take in to account all fluctuations of the market as no claim shall be entertained on this account during the acceptance of the tender and upto completion of the contract.
- 53 The tendered shall be for all completed items of the work and shall includes all quarry royalties, testing, screening, tools and plants railway freight, carriage of materials to site, stacking and removal charges of any rejected materials and municipal taxes, octroi etc. and all other taxes in force from time to time.
- 54 Tendered rates are inclusive of all taxes and levies payable under the respective statutes. However pursuant to the constitution (Forty Sixth Amendment) Act. 1982 if any further tax of levy is imposed by state, after the date of receipt of tenders, and the Contractors there upon necessarily and properly pay such taxes / levies, the contractor shall be reimbursed the amount so paid provided such payment, If any, is not in the opinion of C.E. (whose decision shall be final and binding) attributable to delay in executing of work within the control of the contractor.
- a) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allows inspection of the same by a duly authorized representative or as the Engineer-in-charge may require.
 - b) The contractor shall within a period of 30 days of imposition of any further tax of levy Pursuant to the constitution (Forty Sixth Amendment) Act 1982 gives a written notice thereof to the Engineer-in-charge may require.
 - c) No escalation on any account shall be paid.
- 55 Rates quoted shall be considered to be for all height unless specified otherwise.

PAYMENT

- 56 The contractor shall submit monthly running bills to the MDA for the work completed by him during the month. The Engineer-in-Charge MDA shall check the bill and 75% payment shall be made for the certified amount within 15 days of submission of bill, balance amount due against this bill shall be released after the same is cleared by the MDA. Security deposit recovered reaches the total figure outlined in clause 1 of GPW Form . 9. The certificate of the Engineer-in-charge, MDA regarding the sum payable against bills shall be final and conclusive.
- 57 Any claim, during the period of contract will be submitted in writing within the currency of the contract bond failing which the claim shall not be entertained.
- 58 The contractor shall sign ~~No~~ claim certificate on running bills and in case of any claims or extra item he must mention the item and rate and Qty. specifically otherwise no claim shall be entertained later on. Payment of claim shall only be made as within decided by the competent authority in MDA.
- 59 Sales tax with surcharge shall be deducted on the gross amount of the work done for all the payment made to the contractor according to the provision of U.P. Sales Tax Act modified from time to time.
- 60 The contractor shall submit a certificate along with each bill that full labour payment has been made by the contractor till the end of the preceding month.

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- 61 The provision of an item in the bill of quantities will not entitle payment for the same if forms part of any other item as per specifications, Special conditions of contract through the same may have not been specifically in the description of the item (s).
- 62 The contractor shall have to sign FARKHATI at the time of final bill.

SECURED ADVANCE:

63. Secured Advance on Materials

The Contractor on signing an indenture in the form to be specified by the Engineer-in-charge, Meerut Development Authority by allowed "Secured Advance" on the security on materials to the extent of 75% of the estimate value of major materials which in the opinion of the Engineer-in-charge, Meerut Development Authority are non perishable and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the work. When materials on account of which an advance has been made under this sub-clause are incorporated in the works, the amount of such advance shall be deducted from the last payment made under any of the clauses of this contract. An indenture bound on Rs.100.00 non-judicial stamp prepared and submitted.

ABNORMALLY HIGH/LOW RATES

64. In the case of abnormally low rated items, the minimum quantity stipulated in the agreement must be executed and no reduction in quantity shall be allowed without prior approval of the competent authority.

65. THE ORIGINAL CONSUMPTION OF MATERIAL

After the completion of the work the theoretical quantity of cement to be used on the works shall be calculated on the based on PWD/CPWD statements showing quantities of cement to be used in different items of work provided in the Delhi schedule of rates applicable to the agreement but for the items on which DSR is not applicable the consumption of cement shall be decided the E/I of the work. Over this theoretical quantity of cement further variation on either side shall also be allowed as under.

Maximum permissible percentage

2% (Two percent) For all works

The variations in respect of other materials shall be as per norms in Central P.W.D. work/U.P.P.W.D.

The cost of quantity of cement, steel, bitumen or any other material less used than the theoretical quantity allowing variation of minus side shall be recovered from the contractor at two times of issue rates.

CO-OPERATION WITH OTHER AGENCIES

66. The contractor shall not put hindrance to any person or to other Contractors authorized by the department to carry out works of any nature entrusted to them. The Contractor shall have to allow the other party to work and adjust his work accordingly and no claim shall be entertained on this account. In case of any dispute the decision of the E/I shall be final and binding upon all the parties concerned.

67. The contractor shall do his work in such a way that the work of other contractor is not hampered.

MISCELLANEOUS

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68. The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site of work etc. as Government's property and such materials shall be disposed of to the instructions in writing issued by the Engineer-in-charge.
69. The normal working hours shall be from 8.30 A.M. to 5.30 P.M. and no work shall be carried out on Sunday and on gazetted holidays without specific permission of the E/I. No claim whatsoever shall be entertained on this account.
70. The contractor shall at all times keep the premises free from accumulated waste material or rubbish caused by his employees on the work and on completion of the work he shall clear away whole site of such material and fill up the borrow pits made by him. He will leave whole of the site and works clear in a workmanlike manner. Nothing extra shall be paid to the contractor for this clearing up. The contractor shall maintain and keep the area in agreed sanitary condition, which is used by men engaged in the work by him. He shall remove and clear all structures etc. Which may have been set up by the Contractor for accommodating his labour on the completion of the work to the satisfaction of the Engineer-in-charge Meerut Development Authority.
71. In case of any dispute the decision at C.E./S.E. Meerut Development Authority shall be final and binding on the contractor.
72. No claim for the interest will be entertained by the Meerut Development Authority in respect of the deposits mentioned in the contract or in respect of any money or balance which may be in their hands owing to any disputes between the MDA and the contractor or in respect of any delay on the part of Meerut Development Authority in making monthly payments or otherwise.
73. The contractor shall have to make arrangements at his own cost for temporary accommodation for the office staff and the laborers residence at the site of work. Suitable area of land shall be earned marked to contractor to put the labour camp. Contractor shall however be responsible to hand over the site to Meerut Development Authority duly cleared from all encumbrance immediately after completion of work failing which completion certificate of the contract shall not be issued.
74. Stamp duty will be paid as per rule/order.

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“Conditions Instructions And Important Notes for ELECTRICAL WORKS”

1. For Electrical works, approved “A” category certificate of electrical safety directorate shall be necessary.
2. No extra cost for claim will be admissible for adopt in those special conditions/ instructions mentioned in the following paras. These conditions should be thoroughly studied and taken into account by the contractor while tendering and signing the contract agreement.
3. All works should be carried out as per latest U.P.P.W.D./U.P.P.C.L., Vikas Pradhikaran specification laid down for external electrical works.
4. All the items, fixtures to be used on the work shall be as per drawing and U.P. P.W.D./U.P.P.C.L. Vikas Parishad specifications as mentioned and sample shall to be govt. approved by the E/I. Necessary drawings maybe made available by the E/I.
5. The Contractor must visit site and office and understand the specifications of material of the works.
6. The contractor shall only store such material at site, which are to be used in the work. Material which are not to be used in the work material of inferior quality shall not stored at site without the written permission of the E/ I, MDA is not bound to provide free storage or place to the contractor. The Contractor shall have to make his own arrangement at his own cost.
7. The contractor shall remove all the defects till the works is handed over to Uttar Pradesh Power Corporation, Ltd. And he will cooperate and help him handing over the work.
8. The work shall be opened for inspection by the Technical Audit Cell or any inspecting authority constituted by the GTDA and defects pointed out by them will have to be removed by the contractor as his own cost, within given years of finalisation of the bound, incase the contractor fails to rectify those defects, actions for recovery of amount required for rectification of these defects shall however be taken by the Authority.
9. The contractor to whom is allotted may have to produce on demand by the MDA purchase vouchers, challan etc. From the principal manufacture of authorised dealer for verification of correct supply of material. The contractor will have to submit on demand the satisfactory test certificate of materials used in the works which shall be issued from the principal manufacturer or dealer.
10. The Authority is not responsible for arranging any material whatsoever and the contractor will have to complete the work specified time with specified material, Non, availability of material delay in arrival of the consignment shall not be entertained as an excuse for extension of time for completion of work.
11. Tender will remain open for acceptance upto be three months tenders will have no right to revise tender within this period. However the department may negotiate in this context.
12. General maintenance period will be **one year** form the date of bill approved by vice chairman M.D.A. The security of the contractor deposited deducted from the bill will be admissible for refund after the above mentioned maintenance period during this period the contractor will remove all defects and lapses in execution, if any pointed cut by U.P.P.C.L from time to time.

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13. The contractor will submit a drawing of the electrification work executed the drawings paper approved by the Engineer-in-charge before payment of the final bill and alongwith no claim certificate statement of accessories used without any additional cost in four sets the cost included in the estimated cost on the tendered work.
14. Mode of quoting the rates:

The tenders shall quote their rates on OVER ALL BASIS .AS% above/below in financial bid..
15. The contractor will take care that while construction of lines and substation the Indian Electricity rules are followed in respect of clearance safety sag etc. the sag should be as per I.S.S. and to the satisfaction of Engineer-in-charge.
16. Mode of measurement of over had conductor and earth wire will be by weight and will be calculated by measuring the distances from centre to centre of the pole and computing the weight of the conductor of the that size and length by using standard table plus 3% extra shall be allowed for wastage sag. Jointing binding jumpering etc.
17. **Completion report.**

After completion, test result on the prescribed performa a Appendix 4 U.P.P.W.D. schedule clauses 107, 314, 414) and route layout position of Poles duly marked on the Housing scheme building site plan, shall be submitted by the contractor. The portion of the building etc. damaged during the erection of installation shall be repaired property to original finish and colour of the building etc by contractor on his cost.
18. The successful tender will have to sign an Indemnity Bond on a Rs. 100/- non Judicial Stamp paper duly attested by the Notary.
19. Before tending the rates contractor should carefully study the Electrical construction manual of U.P.P.C.L. all the items used where the drawing are not available final decision of engineer-in-charge of the work will have to be accepted by the contractor
20. The successful tender/contract will be fully responsible for any damage of his men or any damage or 3rd party of their property or MDA property caused by him during the work.
21. In case of any dispute arising in execution of the agreement the matter will be referred to MDA for decision which will be final and binding on the contractor. 4
22. The contractor will also be responsible to obtain necessary approval of the work executed by him from the chief Electrical inspector to the U.P. Government and also to get line energized from the U.P.P.C.L Necessary fees or charges as required will be paid by the MDA on production original receipts.
23. The contractor shall not without the consent in writing of the executive engineer sublet his contract other than the raw materials.
24. The contractor shall at all items provide sufficient notice and caution board, lights and watchmen to protect and warn the public and guard the work.

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25. The contractor will have to complete all the work within the time allowed but due to any Unavoidable circumstances if the contractor requires the extension of time, he will apply to the executive Engineer/Asstt. Engineer on inland letter through registered post giving the full details of reasons for granting of extension of time.
26. 25% payment of the work done will be temporarily deducted and will be released after successfully completing the work and handing it over to U.P.P.C.L. / Nagar Nigam.
27. The final payment of the work shall be given to the contractor after successfully testing and handing over the work to U.P.P.C.L./ Nagar Nigam as required by E/I/C.
28. If the complete work or any portion thereof be found to be defective or it fails to fulfill the requirements of the contract the contractor shall forthwith make the defects good for contract.
29. The contractor will also maintain first aid box etc at the site of works and follow rules applicable to control from time to time.
30. The successful tenderer will also be fully responsible to obtain the approval of drawing design of the work from the U.P.P.C.L. before starting the work.
31. The contractor will have to get the material to be used at site inspected by the Department before starting the work.
32. Any additional information regarding the work will be available at the office of Engineer . In-Charge (Electrical) on any working day. Contractor will produce gate pass/Inspection report of material used to the department before claiming the bill.
33. Successful tenderer will have to ensure the inspection and testing of material by PVVNL prior to starting the work and also handing over of work to PVVNL / Nagar Nigam Meerut.
34. The maintenance period (complete with material) of the work completed will be one year from the date of handing over the work to PVVNL / Nagar Nigam Meerut.
35. Firm will be responsible to obtain required permission from Sahyak Nideshek viduyt suraksha meerut before energising the work the work done.
36. Successful tenderer will have to bear the expenses incurred in the testing of the material at manufacturing unit by the engineer in charge or person nominated by him.

EXECUTIVE ENGINEER

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SPECIAL CHECKS/ SPECIFICATIONS of works DURING EXECUTION

for Various activities of construction

1. EARTH WORK IN EMBANKMENT

- (i) Compact the original ground.
- (ii) Clods or hard lumps should be broken down to 15 cm. when placed in body of embankment and 6cm. when place in sub-grade portion.
- (iii) During compaction have a particulars check on :
 - (A) Soil should be spread in uniform layers not exceeding 250mm loose compacted to 200mm.
 - (B) Moisture content at the time of compaction should be + 1 to 2% of OMC.
- (iv) Density of each layer not be checked before permitting subsequent layers.
- (v) Soil test to be conducted to check PI value, which should be less than 6%

2. PREPARATION OF SUB-GRADE :

Look into the following points while preparation the base prior to laying of sub grade.

- (i) The surface should be finished to the specified grade, level and camber (2.5%) and checked by used of template, and straight edge.
- (ii) The sub-grade should be such so as to give at least 95% /97% (as stipulated in specification) of MD density and should not be in saturated condition at the time of laying of sub grade coarse (90-45mm aggregate)

3. WATER BOUND MACADAM (WBM) :

Special attention on following points construction :

- (i) Arrangement for lateral points confinement of arrangement must be provided. This conveniently be done by raising the shoulders in stage equal in thickness each layers of WBM.
- (ii) Do not allow spreading of coarse aggregate to a length more than that could be compacted during the next 3 days.
- (iii) Dry roll the aggregate thoroughly correct the high/low spots. Complete rolling indicated by a loose stone piece getting crushed under the roller with out sinking.
- (iv) Rolling should start from low edges and progress gradually towards higher points. Each roller pass should overlap half the width of the earlier pass.

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- (v) After rolling aggregate (ballast) apply screening (filler matter) in thin layers in operations at slow rate. The binding material should be dry and the objective should be to drive in as much binder as possible to fill up all the voids of the aggregate. Dry roll should be continued as the screenings are applied.
- (vi) Sprinkle the surface with water, sweep and roll. Avoid too much water that can soften the sub grade.
- (vii) Continue rolling till full compaction is achieved.
- (viii) P.L. of filler material should be up to 6%

QUALITY CONTROL FOR ROAD WORKS

1. TOLERANCES IN SURFACE LEVEL :

(i)	Sub-grade	-	+20mm-25mm
(ii)	Sub base (Flexible)	-	+10mm-20mm
(iii)	Base coarse (flexible)	-	
(A)	Bituminous coarse	-	+6mm . 6mm
(iv)	Other than bituminous		
(A)	Machine laid	-	10mm + 15mm
(B)	Manually	-	+15mm . 10mm

2. TEST ON EARTH WORK FOR EMBANKMENT:

- (1) Compaction control shall be exercises for the body of embankments on each layer of earth by taking at least one test of density per 1000 cum moisture content prior compaction one test per 250 cum of soil.
 - (i) Water bound macadam :
 - (ii) Aggregate impact value : One test per 200cum of aggregate
 - (iii) Grading : One test per 100 cum.
 - (iv) Flakiness Index : One list per 200 cum

CONTROL TESTS FOR BITUMINOUS WORK

- (1) Tack coat

As directed by Engineer-in-charge

- (2) Quality of binder

Both at plant and at the time of application tack coat.

- (3) Rate of spread of binder to be adjusted as per the yards sticks, at regular interval (one hour)

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3. BITUMINOUS MACADAM :

- (i) Aggregate impact value One test per 50 M3 of aggregate (max.30%)
- (ii) Flakiness index elongation index of aggregate . One test 50 cum of aggregate (max 30%)
- (iii) Grading of aggregates- Two tests per day plant both on the individual constituents and mixed aggregate from the dryer. (As per job mix formula).
- (iv) Water absorption of aggregate-initially one set of 3 representative specimens for each source of supply (max 2%)
- (v) Binder content- Periodic subjects minimum of two tests per day per plant. (As per job mix).
- (vi) Control of temperature of binder at regular close intervals says one hour and aggregate for mixing and of temp. Of binder at time of mixing shall the mix at the time of laying and be between 150c to 163c provided that rolling the difference in temperature between binder and aggregate at no time exceeds 14c the discharge temperature of mix shall between 130c to 160c rolling operations shall be completed in every respect before the temperature of mix falls below 100c,
- (vii) Rate of spread of mixed material regular control through checks of layer thickness.

4. ASPHALTIC CONCRETE:

- (i) Aggregate impact value- One test per 50 cum of aggregate (max 30%)
- (ii) Flakiness index and elongation index of aggregate . One test per 50cum of aggregate (max 30%)
- (iii) Stripping value initially . One set of 3 representative specimens for each source of supply.
Subsequently when warranted by changes in the quality of aggregate.
(Minimum retained coating 95%)
- (iv) Water absorption . Do (max. 2%)
- (v) Mix grading . One set of test on individual constituents and mixed aggregate from the dryer for each 400 tones of mix subjects to a minimum of two tests per plant per day . (As per job mix design)
- (vi) Stability of mix for each 400 tones of mix produced a set of 3 marshal specimens to be prepared and tested for stability flow value density and void content subject to a (Marshal stability not less than 820 Kg.)
- (viii) Control of one test of each 400 tones of mix subject and gradation of mix. To a minimum of two tests per day plant. Temperature controls same as that for BM.
- (viii) Rate of spread of mixed material.
(Regular control and through checks on the weight of mixed material and layer thickness).
- (ix) Density of compacted layer- One test per 250 sqm.

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SPECIFICATION

The Work shall be carried out strictly in accordance with.

- (A) The latest MORTH / UPPWD/UPJAL NIGAM/CPWD specifications for works.
- (B) Relevant ISI/ IRC standards for work not-covered under Clause (a)
- (C) Material bearing ISI mark shall be used in works.
- (D) Non ISI material may be use only after the approval of the Engineer-in-Charge, in case ISI marked material is not available . or other wise specified in the nomenclature the item given in BOQ of the Tender document.
- (E) Earth work in roads, WBM, BM/ SDC or MSS as per specification of MORTH

(Third revision – April 1955)/P.W.D.

CONTRACTOR

EXECUTIVE ENGINEER

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

सिविल निर्माण/विकास कार्य हेतु टू-बिड पद्धति पर निविदा की विशेष शर्तें ।

कार्य का नाम : $l\text{ektoknh vkokl h; ;kstuk ds v\text{Urxr} Mk0 jke eukgj ykfj; kuxj ;kstuk ds ikdV ds e\ 85 i\text{Kb} efty\text{s Vkb\&, Hkouk\ dk fuekZ k dk; A}$

- 1 निविदादाता को $\text{रु}0\ 300/-$ लाख से अधिक आगणन लागत के कार्यों हेतु मेरठ विकास प्राधिकरण में पंजीकृत होना आवश्यक नहीं है। अनुभवी फर्म निविदा कर सकती हैं। $\text{रु}0\ 300/-$ लाख से कम लागत के कार्यों हेतु निविदादाता को मेरठ विकास प्राधिकरण में वांछित श्रेणी में पंजीकृत होना अनिवार्य है।
- 2 प्रथम चरण में निविदादाता द्वारा निविदा शुल्क के साथ कार्य की निविदा हेतु निर्धारित आवश्यक अर्हताओं की स्वप्रमाणित प्रतियाँ सीलबन्द लिफाफे में डालकर केवल तकनीकी बिड $\text{\text{₹}0,000; 10\%}$ दी जायेगी। तकनीकी बिड के साथ निविदा शुल्क की रसीद संलग्न न होने व धरोहर राशि का ड्राफ्ट निर्धारित दिनांक तक जमा न करने की दशा में ऐसे निविदादाताओं को आगामी तीन माह तक निविदा प्रक्रिया में प्रतिभाग नहीं लेने हेतु डिबार कर दिया जायेगा।
- 3 लिफाफे के ऊपर कार्य का नाम एवं तकनीकी बिड $\text{\text{₹}0,000; 10\%}$ अंकित करने के उपरान्त ही $\text{doy rduhdh fcM \text{₹}0,000; 10\% dk fyQkQk}$ निविदा बाक्स में डालना होगा। लिफाफे के ऊपर कार्य का नाम एवं तकनीकी बिड (आर0एफ0क्यू0) अंकित न होने की दशा में उस लिफाफे को नहीं खोला जायेगा एवं इस सम्बन्ध में कोई क्लेम मान्य नहीं होगा।
- 4 प्राधिकरण द्वारा सर्वप्रथम केवल तकनीकी बिड $\text{\text{₹}0,000; 10\%}$ खोलकर निम्न अर्हताओं के सापेक्ष मूल्यांकन किया जायेगा। मूल्यांकन हेतु अर्हता के अनुसार निर्धारित अंकों का विवरण उनके सम्मुख दिया गया है। अर्हतायें निम्न प्रकार हैं:-

4.1(अ) निविदादाता द्वारा विगत 03 वर्षों में न्यूनतम एक अनुबन्ध के अन्तर्गत आमन्त्रित निविदा की समान प्रकृति का कार्य सरकारी व अर्धसरकारी विभाग में सन्तोषजनक रूप से पूर्ण किया गया हो, जिसकी न्यूनतम लागत आमन्त्रित निविदा की आगणन लागत के $80\ i\text{fr'kr}$ के बराबर या अधिक हो। कार्यों का विवरण $i\text{k: i \& ,}$ पर आवश्यक अभिलेखों सहित संलग्न करना होगा-

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4.1(ब) निविदादाता द्वारा विगत 03 वर्षों में एक से अधिक अनुबन्ध के अन्तर्गत आमन्त्रित निविदा की समान प्रकृति के कार्य सरकारी व अर्धसरकारी विभाग में सन्तोषजनक रूप से पूर्ण किये गये हों, जिनकी न्यूनतम लागत आमन्त्रित निविदा की आगणन लागत के $80\ i\text{fr'kr}$ के बराबर या अधिक हो। (अधिकतम 2 अनुबन्धों तक 5 अंक प्रति अनुबन्ध)

10 v\

4.1(स) निविदादाता को वर्तमान समय में चल रहे समान प्रकृति के सरकारी व अर्धसरकारी विभाग में प्रगति में चल रहे कार्यों के कमिन्टमेन्टस् का विवरण साक्ष्य सहित संलग्न करना होगा। वर्तमान समय में आमन्त्रित निविदा की आगणन लागत के $80\ i\text{fr'kr}$ लागत का कार्य एक ही अनुबन्ध के अन्तर्गत प्रगति में होने पर ।

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- 4.1(द) निविदादाता को वर्तमान समय में चल रहे समान प्रकृति के सरकारी व अर्धसरकारी विभाग में न्यूनतम आमन्त्रित निविदा की आगणन लागत के 80% लागत के एक से अधिक अनुबन्ध के कार्य प्रगति में होने पर। (अधिकतम 2 अनुबन्धों तक 5 अंक प्रति अनुबन्ध)। 10 वद
- 4.2(अ) निविदादाता द्वारा विगत 03 वर्षों में किसी एक वर्ष का टर्न ओवर आमन्त्रित निविदा की आगणन लागत के तीन गुना या अधिक होने पर। निविदादाता को विगत 03 वर्षों के टर्न ओवर (चार्टर्ड एकाउन्टेन्ट से प्रमाणित बैलेन्स शीट) का विवरण संलग्न करना होगा। 20 वद
- 4.2(ब) निविदादाता द्वारा अवशेष 02 वर्षों में (4.2अ के अतिरिक्त) किसी वर्ष का टर्न ओवर आमन्त्रित निविदा की आगणन लागत के तीन गुना या अधिक होने पर। (05 अंक प्रतिवर्ष)। 10 वद
- 5.1(अ) निविदादाता को न्यूनतम निविदा लागत का 25 प्रतिशत धनराशि का राष्ट्रीयकृत बैंक द्वारा जारी Liquid Assets का प्रमाण-पत्र (छ: माह से अधिक पुराना न हो) प्रारूप –बी पर संलग्न करना होगा। 15 वद
- 5.1(ब) निविदादाता के Liquid Assets निविदा लागत की 25 प्रतिशत से अधिक 50 प्रतिशत तक अतिरिक्त अंक (प्रत्येक 12.5 प्रतिशत पर 5 अंक) 10 वद
6. निविदत्त दरें अभियन्त्रण विभाग द्वारा निर्धारित दरों से न्यून होने की दशा में सफल निविदादाता को स्पष्ट करना होगा कि वह कार्य को गुणवत्तापूर्वक किस प्रकार सन्तोषजनक रूप से पूर्ण करेगा। इसके लिए निविदादाता से अतिरिक्त परफोरमेन्स गारन्टी की एफडीआर/एनएससी पत्र जारी होने की दिनांक से एक सप्ताह के अन्दर जमा करनी अनिवार्य होगी। उक्त अवधि में निर्धारित परफोरमेन्स गारन्टी जमा न करने की दशा में धरोहर राशि जब्त कर ली जायेगी।
7. निविदादाता को वैधता अवधि के अन्तर्गत जिलाधिकारी द्वारा जारी चरित्र एवं कार्य की श्रेणी के अनुसार वांछित हैसियत प्रमाण पत्र की नोटरी द्वारा सत्यापित प्रति तकनीकी बिड के साथ संलग्न करनी अनिवार्य होगी।
8. निविदादाता को निविदा सूचना में अंकित धरोहर धनराशि की एफडीआर/राष्ट्रीय बचत पत्र अधिशासी अभियन्ता, मेरठ विकास प्राधिकरण के पक्ष में बन्धक कर निविदा आमन्त्रण की दिनांक से दो दिन पूर्व तक सम्बन्धित अधिशासी अभियन्ता कार्यालय में जमा करनी अनिवार्य होगी। जिस ठेकेदार द्वारा धरोहर राशि उपरोक्तानुसार निर्धारित दिनांक तक जमा नहीं की जायेगी, उसकी निविदा पर विचार नहीं किया जायेगा।
9. निविदादाता फर्म के पास कार्यरत स्टाफ प्रारूप –सी पर तथा उपलब्ध मशीनरी एवं "टी एन्ड पी" का विवरण प्रारूप – डी पर संलग्न कर उक्त आशय का शपथ पत्र भी तकनीकी बिड ~~100, QOD; 10%~~ के साथ प्रस्तुत करना होगा।
10. निविदादाता को तकनीकी बिड ~~100, QOD; 10%~~ के साथ इस आशय का एक शपथपत्र संलग्न करना होगा, जिससे यह पुष्टि हो कि उसे पूर्व में कोई कार्य समय से पूर्ण न करने अथवा विशिष्टियों/गुणवत्ता के सम्बन्ध में दण्डित/सचेत नहीं किया गया है।
11. निविदादाता को इस आशय से शपथ पत्र तकनीकी बिड ~~100, QOD; 10%~~ के साथ संलग्न करना होगा कि निविदादाता की फर्म कम्पनी अथवा उसका प्रत्येक साझेदार/निदेशक सम्पूर्ण भारत में कहीं से भी सजायापता/दिवालिया/बकायेदार अथवा ब्लैक लिस्टेड नहीं है।

12. निविदादाता को इस आशय से शपथ पत्र तकनीकी बिड $\%0, QOD; 10\%$ के साथ संलग्न करना होगा कि निविदा के साथ संलग्न समस्त प्रपत्र जैसे बैलेन्स शीट, कार्य पूर्णता प्रमाण पत्र व टर्न ओवर, आदि सत्य व सही हैं।
13. निविदा प्रपत्र में त्रुटिपूर्ण सूचना देने अथवा गलत शपथ पत्र प्रस्तुत करने पर प्राधिकरण द्वारा उसकी धरोहर राशि व अन्य बंधक धनराशि जब्त कर ली जायेगी।
14. $f\}rh; pj.k$ में जिन निविदादाताओं को तकनीकी बिड के मूल्यांकन में 60 प्रतिशत से अधिक अंक प्राप्त होंगे, केवल उन्हीं ठेकेदारों से वित्तीय बिड (आर0एफ0पी0) आमन्त्रित करने की सूचना पृथक से दी जायेगी। लिफाफे के ऊपर कार्य का नाम एवं वित्तीय बिड (आर0एफ0पी0) अंकित करने के उपरान्त ही $forrh; fcM \%0, QOih0\%$ का लिफाफा निर्धारित दिनांक को निविदा बाक्स में डालना होगा। लिफाफे के ऊपर कार्य का नाम एवं वित्तीय बिड (आर0एफ0पी0) अंकित न होने की दशा में उस लिफाफे को नहीं खोला जायेगा एवं इस सम्बन्ध में कोई क्लेम मान्य नहीं होगा।
15. तकनीकी बिड $\%0, QOD; 10\%$ में सफल ठेकेदारों के चयन के उपरान्त सफल ठेकेदारों को वित्तीय बिड $\%0, QOih0\%$ खोलने की तिथि व समय हेतु अलग से सूचित किया जायेगा एवं सफल ठेकेदारों की सूची प्राधिकरण की वेबसाईट पर उपलब्ध होगी।

vfuk; l'kr

16. प्राधिकरण में वर्तमान में चल रहे समस्त कार्यों की वर्तमान प्रगति प्रारूप "ई" पर अंकित करनी अनिवार्य होगी। उक्त सूचना अंकित न होने की दशा में निविदा पर विचार नहीं किया जायेगा।
17. विद्युत सम्बन्धी कार्यों हेतु निविदादाता को संलग्न अनुभव प्रमाण पत्रों के साथ सम्बन्धित कार्यों के कार्य पूर्णता प्रमाण पत्र, नगर निगम व पी0वी0वी0एन0एल0 को हस्तान्तरण सम्बन्धी प्रमाण पत्र सत्यापित कर संलग्न करना अनिवार्य होगा। अन्यथा निविदा पर विचार नहीं किया जायेगा।
18. हॉटमिक्स प्लान्ट से सम्बन्धित कार्य हेतु निविदादाता के पास हॉटमिक्स प्लान्ट के स्वामित्व के साथ-साथ प्लान्ट को कार्य स्थल से 50 किमी0 की परिधि के अन्दर स्थापित होना अनिवार्य होगा। किराये/लीज पर लिये गये प्लान्ट के आधार पर दी गयी निविदा पर विचार नहीं किया जायेगा।
19. किसी बिड को बिना कारण बताये स्वीकृत करने अथवा निरस्त करने का अधिकार उपाध्यक्ष, मेरठ विकास प्राधिकरण को होगा।

अधिशाली अभियन्ता

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

APPENDIX A

The following Works awarded to M/s _____ have been executed satisfactory.

S.No.	Name of work	Total value of work done Rs. in lacs	Date of start	Stipulated date of completion	Actual Date Completion	Whether Compensation Levied for delay
1						
2						
3						
4						
5						

The performance of the firm has been found to be good and they are considered capable of executing the works of magnitude up to Rs _____ lacs

The financial position of the firm appears to be sound and they are capable of executing works in accordance with the specifications and with specified time schedule.

The dealings of the firm have been observed to be cordial reasonable and they are not litigious.

Dated SIGNATURE of

Officer-in-Charge of the work

Name of Officer

Official Seal

If any tenderer submits the experience certificate of on going work, then amount of work done against the agreement is to be mentioned clearly in the certificate.

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

APPENDIX Bq

The is to certify that dealings of M/s 0 0 0 0 0 0 0 0 0 0 0 .. who have been dealing with us for last 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 years are satisfactory. On the basis of information available with us we assess their Liquid Assets not less than Rs. 0 0 0 0 0 0 0 0 0 . Lacs.

SIGNATURE OF MANAGER OF THE BANK

Seal of the Bank

Date

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

APPENDIX Cq

I/We _____ . S/o _____ Partners/ Authorised person M/s _____ applicant of _____ .

_____ .. for prequalification here by declare that following person is in my / our regular employment on the post and from the dates mentioned against them.

S.No.	Name and Address	Technical Qualification	Post held regular	Date of Employment	Details of Experience
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

I / We understand that well experienced one graduate and one Diploma Holder / Civil Engineering as directed by E/I will have to be deployed by us on the work through out, in case we are entrusted with execution of the work in question.

I / We further understand that in the even for non-presence of such Engineers the Meerut Development Authority shall deduct @ Rs. 10,000 (Ten thousand) or Rs. 6,000 (Six thousand) as the case may be, per month from our bills which will not be refundable.

I / We further understand that the decision of Engineer-in-charge of work regards to presence and / or absence of our Engineer from the work shall be final and binding upon us.

SIGNATURE OF APPLICANT

SEAL

(NOTARY PUBLIC)

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

APPENDIX Dq

I / We _____ S/o Shri _____ Applicant of
_____. or _____ .. Parter (S) Authorised person (S) of M/s

Applicant for pre-qualification for the above noted work in Meerut Development Authority here by certify that I/We possess the following machinery, tools and plants, centering and shuttering, all in good working conditions.

Particulars of machinery Tools, plants centering and shuttering	No.	Estimated cost (Rs.)	Approximate age in Years and months

I /We undertake that above machineries and centering and shuttering material will remain in good working condition and in useable from throughout the currency of work.

I /We further undertake, that if, there is any reduction in the equipment, below the limit required for per-qualification, I /We will inform Engineer- in-charge, Meerut development Authority to whom application for pre-qualification is being made, within 3 days of its occurrence and arrange to make it up within another one week, failing which, the MDA will be free to impose any penalty that it may deem fit, which will be final and binding upon me/us.

APPLICANT

SEAL

(NOTARY PUBLIC)

On Stamp page (minimum denomination Rs. 10.00)

ANNEXURE -1

Tender invited by Executive Engineer _____

Meerut development authority, Meerut (U.P.)

Tender notice No. _____ dated 0 0 0 0 0 0

[illegible]

In consideration of the Meerut Development Authority having treated tenderor to be an eligible person whose tender may be considered the tenderor hereby agrees to the conditions that the proposals in the above invitation shall not be withdrawn within three months from the date of opening of the tender and also to the condition that in case after the tender as withdrawn his proposal within the stipulated period, the earnest money deposited by him shall be forfeited by the Meerut Development Authority. I hereby agree to the effect that if subsequent to the submission of my tender, a modification is made by me in respect of contents of my tender which is not acceptable to the Meerut Development Authority, it may be DEEMED as withdrawn of my proposal and consequently I am liable for action as above.

I abide by all the rules and regulations of Meerut Development Authority, Meerut.

Date ã ã ã ã ã ã ã ã

Signed by Contractor 0 0 0 0 0 0 0 0 ..0 0 ...

(seal of the firm)

Important Notice : This undertaking is to be signed by the contractor on stamp paper of Rs. 10/- only. This is to be submitted along with the tender, failing which the tender is liable to be rejected. This undertaking shall be attested from Public Notary.

TENDER DOCUMENT

VOLUME : II

FINANCIAL BID

Tender No-04

Name of Work :- I ektoknh vkokl h; ;kstuk ds vUrxr Mk0 jke eukgj
ykfg; kuxj

;kstuk ds ikdV ds es 85 ikb eftyS VkbZ &, Hkouka dk fuekZ k
dk; A

Note: The tenderer must read carefully every page of the details, conditions of technical bid and submit in the sealed endvelop of technical bid after signing of each page of the conditions

Year -2014-15

Executive Engineer

FINANCIAL – BID

Tender No-04

Name of Work :- I ektoknh vkokl h; ; kstuk ds vUrxr Mk0 jke eukgj
ykfg; kuxj

; kstuk ds ikdV ds ea 85 i klp eftyS VkbZ &, Hkouka dk fuekZ k
dk; A

I/We hereby tender for the execution above mentioned work according to the SCHEDULE - G (Bill of quantites), Specification and terms and conditions referred to in the tender documents with in time-frame as mentioned and in accordance with the specification, design, drawings and instruction in writing and with such materials as are provided for and in all other reseects in accordance with such conditions sas for as applicable.

I/We hereby agree to the percentage mentioned (Below/Above) on the printed rates of the Bill of Quantities for the execution of the work.

1. The Quantities are liable to wide variation upto 10% extent for which no claim whatsoever shall be entertained,
2. All extra items shall be executed on the same rates as % percentage tendered by the contractor section wise on the basis of schedule of rates at the time of inviting the tenders or the current schedule rates which ever is lesser.
3. All works shall be carried out as per Most C.P.W.D./U.P.P.W.D detailed specification and amendments made therein from time to time.
4. I.T./Trade Tax/ Labour cess as admissible time to time will be recovered from the gross amount of the bills.And no claim will be considered to contractor.
5. In the event of any dispute Meerut courts will have exclusive jurisdiction and no suit shall be lie in any other court outside Meeut District.
6. The contractor will enclose stamp paper of Rs. 100/- and a revenue stamp of Rs. 1/- duly signed by him with tender document in which he

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will give an undertaking that he is abide to maintain his commitment of quoted rates upto the validity period of tender . If he ignore with his quoted rates with in tne validity period, his earnest money will be forfeited enclosed with the tender and no claim will be considered for it.

7. I/We.....hereby offer. To
execute the above work on% (in figure)
(in words).....Above/below
the rates printed on the attached bill of quantity (B.O.Q.) of the works.

POSTAL ADDRESS:-

Sign. of Contractor,

A.E. M.D.A.

**Officer Opning
Tender**

**Offcer Recommending
Tender**

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ADDITIONAL CONDITIONS OF THE CONTRACT

1. Each page of the bill of quantity. Specification and condition should be signed by the contractor.
2. Tenderors should given their rates after careful examination of site of work. Drawings can be seen in the office during working hours. Drawing and specification can however be modified without entitling the contractor to any compensation due to change made there in. Change of site will also not entitle the contractor to any compensation.
3. The contractor must take late consideration, all fluctuations in rates of labour and materials during currency of the work, No claim what so ever on this account shall be entertained.
4. The units of ration as shown in the bill of quantities should be carefully seen as refer, once give by the contractor shall, remain unchanged and no execute on any account will be entrained after the tender box has been closed.
5. RIGHT OF REJECTION :- The department reserves the right to reject any or all the tendors without assigning and reason for doing to. It also reserves the the right to allot either a part of the work or the whole to any tendors, should the sold tenderors refuse to sign the bond. If he is given a portion of work, his proportionate earnest money shall be forfeited and his tender rejected.
6. INSPECTION OF THE SITE AND CHARAOTER OF SOIL:- The contractor shall inspect and examine the site and its surroundings and shall satisfy before submitting his tender as to the nature of the grounds or subsoils and specially about the through and on which excavation is to made foundations to be built not other work to be executed. In his interest he should make sure of the position of quarries, topography of the site, availability of food stuffs, labour and materials and other ammolleles before tendering. no claim for additional work or extra due to any of the above reasons will be allowed as specified in general specifications.
7. LINES AND LEVELS :- The contractor shall be solely responsible for setting out the work and for the correctness of the possitions levels dimensions and aruments according to the plants and shall provide all necessary assistance instrument page atnkon, pollon and other materials required for the purpose. He will keep his own qualified staff and instruments to do the job. The tendered rate shall be deemed to included all this.
8. TOOLS AND PLANTS :- The contractor shall arrange of his own tools and plants required for the proper execution and completion of the work wihtin the specified time. If any equipment is issued departmentally, rent will be recovered from the contractor's bill at rates and terms to be entertained by the contractor from the Engineer in charge in writing etc.
9. WATCH AND WARD:- The contractor shall in connection with the the work provide and maintain at his own cost all guard, fencing and watch and ward required for proper execution and safety of materials etc.
10. MEASUREMENTS:- The Engineer in charge shall accept otherwise stated ascertain and determine by measurements the value in accordance with the contract of the work done. He shall when he require any part or parts of the work to be measured, give notice to the contractor. Who shall forth with attend or send on authorised agent of representative with the necessary labour and implements to assist the official mesasuring the work in making such measurement and shall furnish all particulars required. Should the contractor fall , to attend or omit to send such Agent or representative, than the measurement made by the Engineer In charge of any official under him of approved by him, shall be taken to be the correct measurement of the work.
11. MATERIALS AND APPLIANCES:- All reasonable facilities will be provided by the Authority to the contractor for procuring of controlled materials but the failure, on the part of the contractor to get the materials in pursuance to any permit etc. Issued on behalf of the Authority, shall not serve any ground for not carrying out his obligation under the contractor.
12. TIME OF WORKING:- The contractor will be required to so that the usual working hourse are adharred to No work should be done in night without the permission of the Engineer in charge except when its absolutely necessary for the saying of life or property or for the safety of the work in which case the contractor shall immediately seek advice of the Engineer in charge Some times however, some work. It may be directed by Engineer in charge will have to be carried out in the night and no extra payment shall be made to the contractor on this account.
13. PROGRAMME AND RETURNS TO BE FURNISHED :- As soon as pencil cable but not less than one month after the acceptance of his tender the contractor shall, if required to submit to Engineer in charge for his approval a program showing the order of procedure and method in which he proposed to carry out the works and shall

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whenever required by the Engineer in charge for his information particulars in writing of the contractor arrangement for the carrying out of works.

14. **DRAWING AND THEIR OWNER SHIP:-** The acts of working drawing be got issued by the contractor from the office after his tender has been accepted., Contractor shall keep one set of drawing in the good condition ready at site and available to department Engineer staff. On completion of the work the contractor will have to return these drawing to the office.
15. **EXTRAITION OF WORKS :-** The cost of extra items of the works necessitated during the execution of the work shall be determined as stated In MDA conditions of contract.
16. **CLAIMS :-** The contractor shall submit to the executive engineer once in very month an account giving full and detailed particulars of all claims for any additional expenses to which the contractor may consider him self entitled and of the extra and additional works order and executed during the proceeding month. No Claim for payment for any scuh work shall be considered which has not been included in such particulars.
17. **DEFAULT OF CONTRACTORS COMPLIANCE:-** Defence of the instructions of the Executive Engineer in charge on the part of the contractor will make the contractor liable to be terminated.
18. Will full in subordination or disobedience to the orders of the Engineering staff whether alone or in combination with another shall be considered to be an act of misbehaviour and penalty for this as decided and improved by the Executive. Engineer shall be final and binding on the contractor.
19. **CLEARANCE OF SITE ON COMPLETION:-** The contractor shall at all times keep the premises free from accumulated was to materials or rubbish caused by his employees on the works and on completion of the work he shall clear away and removes from site all construction wastes, surplus materials, rubbish and temporary works of any kind and fill up borrow pits dug by him. He will leave while of the site and work clean and in a workman like conditions to the entire satisfaction of the Engineer in charge as provided in M.D.A. condition of contract. Nothing extra shall be paid to the contractor for this clearing.
20. **FOSSHS ETC:-** All found, coins articles of value of antiquity and other remains of things of geological or archeological interest discovered on the site of the work shall be given the Authority by the contractor and shall be decency absolute property of the Authority.
21. **SUSPENSION WORK:-** The contractor shall on the written order of the Executive Engineer, suspend the progress of the works of any part here of for such time and in such manner as may be considered necessary and shall during such suspension property protect and accrue the work so far as is necessary in the opinion of the Executive Engineer. Nothing extra shall be paid to the contractor. If such a suspension is necessary for the proper execution of the work by reasons of the weather or by some default on the part.
22. **SUB STANDARD WONK:-** concrete of strength below 80% of the required strength (as determined actual tests) shall not be accepted concrete of strength not below 80% of required strength may be accepted as sub standard work at suitably reduced rates provided the use of this under strength concrete is confirmed to such members and in such quantities that the safety of the structure is not end an greed. the acceptance, of such sub standard work will be at the entirely discretion of Executive. Engineer and contractor shall not claim as a matter of right. The decision of Executive. Engineer shall be final regarding reduction of rates for such sub standard works.
23. If required the contractor shall provide at his own expenses suitable accommodation for his employee including adequate sanitary arrangements and water supply.
24. The quantities shown in the bill of quantities are approximate and liable to variation to any extent on either side and the contractor will not be entitled to any extra rates or compensation due to any change in the quantity of the work to be done. Few items may be required to be omitted and contractor shall, not entitled to claim and profit on this account.
25. Joint tender will not be considered unless the film is registered one or the person signing the tender possesses the power of attorney of each other and the partners shall be considered as well as Individually or the tender calling which the tender is liable to be rejected and earnest money forfeited.
26. No more than one tender shoseuld to be submitted by one contractor or by one firm of contractors.
27. All tendered reates shall be considered to include all jobs as mentioned in the detailed specifications attached.

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28. After acceptance of the tender the M.D.A conditions of contract with necessary amendments will be attached with the bond and the same will be binding on the contractor.
29. The work of electric fittings shall be taken in hand when the building work has sufficiently advanced. The contractor will have to afford all facilities to other contractor in the execution of their work so that the entire work may proceed in the execution of their work so that the entire may proceed smoothly. No compensation on this account shall be allowed.
30. When opening the tenders the rates shall be read out to all contractors. Who are present.
31. The white lime required for the work shall be brought to the site in unsacked conditions and in good property and to specification on the work after approval of the Engineer in charge or his representative.
32. All building materials arranged by the contractor shall be subject to the approval of the Engineer in charge and rejected materials if any, will have to be removed by the contractor within three days from the site of the work otherwise a penalty of Rs. 50 per day may be imposed on him till the materials in question are removed.
33. The materials to be supplied by the department as per schedule 6+ appended at the rates mentioned there in shall be supplied to the contractor in such lots and at such time as the Engineer in charge desired. The contractor should send his requirement well in advance to the Engineer in charge. The materials will be supplied in time as far as possible but in case of any materials being not available no claim will be entertained in case of material in schedule 6+ the contractor will use only those materials which have been issued by the Department unless directed by the Engineer in charge and approved by the Executive Engineer.
34. Other materials not covered by the schedule 6+ can also be issued to the contractor at the discretion of the Executive Engineer in charge if available at the current market rate of stock rates which ever is higher.
35. All materials issued to the contractor will have to be stacked and stored properly at the site of the work and a proper account will have to be maintained by the contractor in accordance with the instructions of the engineer in charge etc. so that checking can be done when necessary. If any surplus materials are left after the completion of the work it shall be put to disposal or removed by the contractor unless he receives permission in writing from the Engineer in charge.
36. An order book will be kept at the site of the work in which instructions may be recorded by the Engineer in charge or his representative. The contractor or his authorized Agent will be required to sign the order book daily in acknowledgement of the instructions. In case the contractor refuses to do so the instructions written there in shall be binding on the contractor.
37. VERBAL INSTRUCTIONS ISSUED BY THE OFFICERS : Any verbal instruction issued by officers from time to time in connection with; change in design or specification which the contractor thinks entitles him for extra payment shall be got confirmed in writing by the contractor. Failure to do this will not entitle him extra payment.
38. The contractor shall be responsible to carry out the work according to the drawing attached with the contract bond drawing of details given by Engineer I/C. In case the contractor executes the work of larger dimension than shown in drawing he will only be paid for as per drawings in case work executed is of less dimensions and not covered by the tolerances allowed, It will be at the discretion of Engineer in charge to accept the work or to reject. In case the work is to be accepted the payment will be made as per dimensions actually executed.
39. The contractor before commencing the work shall (a) put in a conspicuous place at the site of work notice, giving the proper wages which have been certified by the Engineer in charge.
40. The contractor shall be bound by the rules made by the Govt. with regard to the period for which wages have to be paid and deduction from wages.
41. The contractor shall be bound to give preference to ex-service man where available. The nearest sub regional employment exchange may be consulted regarding availability of such man.
42. The tender rates shall include all quarrying charges, royalty screening tools and plants carriage of materials to the site stacking and removal of all rejected materials, all taxes & water arrangement etc.

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43. Condition of M.D.A conditions of contract manual from 79/80/81/82 will also be applicable and will form part of the contractor.
44. No claim for extra payment on account of delay in the supply of material or machines to be issued by the M.D.A will be entertained.
45. The contractor must write there correct and complete postal address in tender and arrange to take the delivery of all letter. If any letter achieved back undelivered it will be contractor responsibility and contractor shall be bound for such action as may be written in the content of such letter. Any change of address must be intimated to this office for which he should obtain acknowledgements. The contractor or his agent will not refuse to delivery of letter at the site of work in M.D.A office.
46. Stamps duty as required on the contract deed will be borne by the contractor.
47. The. M.D.A. Shall have the right of accept at reduced rate sub standard and defective work provided that the sub standard or defective work out considered to be seriously defective by the Engineer In charge and the rates of works so accepted will be suitably reduced by the Executive Engineer to compensate the M.D.A and such reduction will be at the entire discretion of the Executive Engineer and shall be final and binding on the contractor.
48. The work must comply with the relevant U.P. PWD detailed specifications and relevant latest standards of Indian standard codes, as Specified in regarding applicability interpretation or any dispute about specifications shall be final binding on the contractor. The tenderor shall be deemed to cover the following where required to be done and no extra payment for these shall be made.
 - (a) Cutting of existing roads and making it good after completion of work in original shape and with specification of broken work.
 - (b) Cutting and making holes to the brick work or roofs (RB or RCC) or floors or plaster and making good the same after completion of the work to original shape and with specification of broken work.
 - (c) Making of pillars to first class brick in 1:3 cement and approved coarse sand mortar for finding water supply lines of water storage tank as desired by the Engineer in charge.
49. (d) Painting two coats of approved paint on all exposed faces either or H.C.I. pipe lines, flushing valves bracket and other fittings and M.S. tanks and girders etc.
50. (e) Lead jointing in HCL Ball and vent pipes lead shall be filled up to 2 cm minimum extra than chaulking by jute.
51. (f) The supervising staff can check by getting the lead joints opened upto 20% of all the joints the same shall have to be referred by the contractor at his own cost. If any joint found with lesser quantity of lead or cracks in lead jointing the penalty as deemed by the Engineer Incharge shall be imposed to all joints.
52. The contractor shall have to dispose of all surplus earth, and rubbish etc. away from the building from the site of the work as and where directed by the E. In charge at the time of the completion.
53. All the concealed pipe shall be tested as per direction of Engineer in charge and shall be concealed only when it is approved. The testing charges and equipment etc. for the same be borne by the contractor. The contractor shall be responsible for the leakage till the 10% security is released.
54. The tendered rate shall include all the local and other taxes, water charges, carrying etc. No claim shall be entertained on such account the quantities are liable to vary on either side to any extent for which no claim shall be entertained.
55. After laying and joining, the S.W. and HCL pipes and fittings shall be inspected and got tested any joint found leaking shall be done and all leaking pipes removed and replaced without extra cost.
56. The tendered rate shall be deemed cover the charges of making connection with water tanks and supply pipes etc. for which nothing extra shall be paid.

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57. The floor and walls etc. cut for proper completion of the work shall be repaired and finished to its original specification.
58. The GI pipe work including fitting shall be tested to pressure as specified in relevant IS code to ensure that pipes have proper threads and proper materials. All leaky joints shall be made leak proof. Smoke test shall be carried out for HCL pipe line work as provided in the specifications. The S.W pipe shall be tested for 5 mtrs. Head of water nothing extra shall be paid for all these testing.
59. For the material supplied by the department proper accounts will have to be maintained. For cement double lock system will have to be followed.
60. Floor trap, nahani trap if any and W.C. shall be paid at the reduced rates i.e 90% of the rate till got tested against leakage to the satisfaction of the engineer incharge.
- 61- The contractor has to carry out the work of testing twice once before taking the final measurement and secondly any time during period of a month from the date of expiry of contract i.e maintenance period of a month payment, for this 10% security shall be refunded only after the satisfactory completion of work, test maintenance period.
- 62- No payment will be made to contractor for cutting charge and its repair in brick work after completion of work for fixing percaste or cast insite, RCC shelves and no claim on this account shall be entertained.
- 63- The lambs of the doors, windows shall be finished with cement mortar 1:2:2: (1 cement, 2 coarse sand, 2 jamuna sand) against the 12 mm and 15 mm thick plastering items of bill of quantities but nothing extra will be paid on this account.
- 64- No claim will be made to contractor for damage to building works or materials caused by rain, any natural calamities or any other reason what so ever during the execution of the work and no such claim on this account shall be entertained.

I/We have carefully read the above conditions and agreed to abide by them.

EXECUTIVE ENGINEER,

MEERUT DEVELOPMENT AUTHORITY, MEERUT.

BILL OF QUANTITY

Name of work-Cons. of 85 Type-A Houses in Pocket-K at Lohia Nagar Scheme under Samajvadi Scheme.					
S.No.	DESCRIPTION OF WORK	Qty	Rate	Unit	
Item No.1	Excavation in foundation in ordinary Soil(Loam,clay or sand)including lift upto 1.50M. & including filling watering &ramming of excavated earth into the trenches or into the space between the building & the sides of the foundation trenches or into the plinth & removal & disposal of surplus earth as directed by the Engineer-in charge upto a distance of 30M. from the foundation trenches.[SI No.251(a)]	2210.00	63.00	Cum	
Item No.2	Concrete with 4 cm. guage stone ballast,C. sand . & cement,in proportion of 8:4:1 in foundations .[SI. No.281]	334.00	4050.00	Cum	
Item No.3	Providing & injecting chemical for preconstruction Antitermite treatment and creating and chemical barrier under and around the column pits wall trenches basement excavation top surface etc. as follow 1.Treatment for masonry and foundation 5 liters per Sqm.2. Back fill in immediate contact with foundation 7.5 liter per Sqm.(s.i. no. new item no. 19.02)	1657.00	250.00	SQM	
Item No.4	M-150 Brick Work in one cement & six fine sand of 1.25 F.Mmorter in foundation [SI.No.303]	27.00	3700.00	Cum	
Item No.5	2.5 cm. Thick D.P.C with cement & approved course sand 1:2 with & including water proofing as ordered by the Engineer incharge in the proportion as specified by the manufactured i/c supply of all materials,tools & plants etc. required for the completion of the work & including proper curing & shutterings as necessary.[SI.No.361]	15.00	275.00	SQM	
Item No.6	Applying two coat of residual petroleum bitumen of penetration 85/50 or 85/25 of approved quality using 1.7 kg per sqm on damp proof coarse after cleaning the surface with brushes and finally eith a piece of cloth lightly soaked in kerosene oil. [SI.No.362+363]	15.00	135.00	SQM	
Item No.7	First class Brick Work in 1:6 cement & F. sand of 1.25 F.M mortar for one brick thick wall in super structer [SI.No.303+309+310]				

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(A)	For Ground Floor	50.00	4030.00	Cum	
(B)	For First Floor	50.00	4078.65	Cum	
(C)	For Second Floor	50.00	4127.30	Cum	
(D)	For Third Floor	50.00	4175.95	Cum	
(E)	For Fourth Floor	50.00	4224.60	Cum	
(F)	For Fifth Floor	55.00	4273.25	Cum	
Item No.8	First class Brick Work in 1:4 cement & Coarse Sand of 2.20 F.M. mortar for half brick thick wall in super structer [SI.No.310a]				
(A)	For Ground Floor	236.50	4565.00	Cum	
(B)	For First Floor	236.50	4613.65	Cum	
(C)	For Second Floor	236.50	4662.30	Cum	
(D)	For Third Floor	236.50	4710.95	Cum	
(E)	For Fourth Floor	236.50	4759.60	Cum	
(F)	For Fifth Floor	265.00	4808.25	Cum	
Item No.9	R.C.C Work with cement,approved coarse sand & 2cm. gauge approved stone grit in proportions of 1:1.5:3 in R.C.C. raft foundation and footings excluding supply of reinforcement & its bending,but including its fixing & binding the same with 24 B.W.G.G.I.binding wire & including necessary centering & shuttering etc. & supply of all materials,labour ,Tools & plants etc.required for proper completion of the work i/c cost of binding wire.The rate excludes making of drip course which shall be paid extra.[SI.No.287]	344.00	5850.00	Cum	
Item No.10	R.C.C Work with cement,approved coarse sand & 2cm. gauge approved stone grit in proportions of 1:1.5:3 (1 cement, 1.5 coarse sand, 3 stone grit) in coloumns including necessary centering & shuttering excluding supply of reinforcement and its bending the for same with 24 B.W. G.G.G.I. binding wire.[SI.No.289]				
(A)	For Ground Floor	40.00	6850.00	Cum	
(B)	For First Floor	43.00	6918.50	Cum	
(C)	For Second Floor	43.00	6987.00	Cum	
(D)	For Third Floor	43.00	7055.50	Cum	
(E)	For Fourth Floor	43.00	7124.00	Cum	
(F)	For Fifth Floor	48.00	7192.50	Cum	

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Item No.11	R.C.C Work with cement,approved coarse sand & 2cm. gauge approved stone grit in proportions of 1:1.5:3 (1 cement, 2 coarse sand, 4 stone grit) in lintel including necessary centering & shuttering excluding supply of reinforcement and its bending the for same with 24 B.W. G.G.G.I. binding wire.[SI.No.283]	29.00	6350.00	Cum	
Item No.12	R.C.C Work with cement,approved coarse sand & 2cm. gauge approved stone grit in proportions of 1:1.5:3 (1 cement, 2 coarse sand, 4 stone grit) in lighter beams having span upto 6.0 mt. including necessary centering & shuttering excluding supply of reinforcement and its bending the for same with 24 B.W. G.G.G.I. binding wire.[SI.No.285]				
(A)	For Ground Floor	104.00	6950.00	Cum	
(B)	For First Floor	104.00	7020.20	Cum	
(C)	For Second Floor	104.00	7090.40	Cum	
(D)	For Third Floor	104.00	7160.60	Cum	
(E)	For Fourth Floor	104.00	7230.80	Cum	
(F)	For Fifth Floor	104.00	7301.00	Cum	
Item No.13	R.C.C Work with cement,approved coarse sand & 2cm. Gauge approved stone grit in proportions of 1:1.5:3 in slabs exclud supply of reinforcement & its bending,but i/c its fixing & binding the same with 24 B.W.G.G.I.binding wire & including necessary centering & shuttering etc. & supply of all materials,labour ,Tools & plants etc.required for proper completion of the work i/ccost of binding wire.The rate excludes making of drip course which shall be paid extra.[SI.No.284]				
(A)	For Ground Floor	173.00	6700.00	Cum	
(B)	For First Floor	173.00	6767.00	Cum	
(C)	For Second Floor	173.00	6834.00	Cum	
(D)	For Third Floor	173.00	6901.00	Cum	
(E)	For Fourth Floor	173.00	6968.00	Cum	
(F)	For Fifth Floor	185.00	7035.00	Cum	
Item No.14	M.S.(tor steel or plain)in plain work such as R.C.C.or R.B.work i/c bending for proper shape& including supply of steel & its wastage,bend,hooks & authorized overlapping shall be measured & i/c cost of binding wire.[SI.No.504]	3227.00	5900.00	Qtl	
Item No.15	M.S. or iron work in angle iron door and windows frames including cutting welding and wastage including supply of material, Labour T&P etc. required for proper completion of work. S.I. No. 502	102.00	6000.00	Qtl	

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Item No.16	Same as in item no. 13 but openable panles of steel Z section window excluding Glass panes.	134.00	6600.00	Qtl	
Item No.17	Same as in item no. 13 but fabrication of grill or stair case railing etc. cmpleteion of work	236.00	6100.00	Qtl	
Item No.18	12mm thick plaster with cement and fine sand of 1.25 F.M. mortor in 1:4 over brick work internal side. [SI.No.586]				
(A)	For Ground Floor	112.00	115.00	SQM	
(B)	For First Floor	4946.00	116.17	SQM	
(C)	For Second Floor	4946.00	117.34	SQM	
(D)	For Third Floor	4946.00	118.51	SQM	
(E)	For Fourth Floor	4946.00	119.68	SQM	
(F)	For Fifth Floor	5513.00	120.85	SQM	
Item No.19	Extra labour and materials for plaster over rough face of one brick wall (s.I.No.596)	12705.00	6.50	SQM	
Item No.20	6mm thick ceiling plaster on R.C.C. with 1:4 cement and fine sand mortar including supply of all material, labour and t & P etc. for proper completion of work.(App. Rate)	8710.00	125.00	SQM	
Item No.21	Earth filling in plinth i/c supply of necessary quantity of earth from a distance not exceeding 8 km from the siteof work and i/c watering,dressing etc. labour and T&P etc. required for the proper comletion of the work.saplins of grith upto 30 cms .measured at a height of 1 M. above ground level and removel of rubbish up to a distance of 50 M .out side the periphery of area cleared.[253(a)+261]	3660.00	189.50	Cum	
Item No.22	Supply and fixing of 32mm thick flush Doors commercial quality conforming to I.S. 2202 Part 1(1983) including fixing of wooden cleats and stoppers and including fixing and adjustment of hinges bolts locks handles spring fitting with necessary screws to besupplied departmentally.(S.I.No.470/2008 ofLucknow)	1080.00	1100.00	SQM	

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Item No.23	2.5 cm. (1ö) thick 1:2:4 plain cement concrete floor with cement,approved coarse sand & 2 cm. (1ö)graded approved stone grit, laid in panels finished with 3 mm. (1/8ö) floating coat of neat cement & marble dust in ratio 5:1 as specified over & including Base Cocrete of 1:4:8 cement, Fine sand & Brick Ballast supply of all materials,labour tools & plants etc.required for proper completion of the work. [SI No.601]	1657.00	450.00	SQM	
Item No.24	25mm thick kota stone slab flooring over 20mm average thick base laid over and jointed with grey cement slurry mix with pigment to match the shade of slab including rubbing and polishing complete with base of cement mortar(S.I.No.14.26)	6040.00	900.00	SQM	
Item No.25	Providing and fixing glass strips of 4.00 mm (1/8 ") thickness and following weath in joints of floors and skirting at the time of laying ,i/c labour and tools & plants .etc. complete.[S.I.No.631(a)]				
	(A) 2.20cm wide	1600.00	15.00	Rmt	
Item No.26	2cm thick plaster in dado or skirting in 1:2 consisting of one part of cement & two part of approved coarse sand laid in panels finished with 3mm floating coat of neat cement or cement mixed with marbile dust in ratio 5:1 including supply of all material,labour, tools&plants etc.required for completion of the work.[SI.No.597]	610.00	190.00	SQM	
Item No.27	Providing and Laying rectified glazed ceramic floor tiles 300x300mm size app. Make and coiours of first quality confirming to IS 15622 of app. Make and shades laid on 20mm thick cement mortar in 1:4 including grouting the joints with white cement and matching pigment(DSR 11.37)	1051.00	785.40	SQM	
Item No.28	Providing and Laying rectified glazed wall ceramic floor tiles 300x300mm size app. Make and coiours of first quality confirming to IS 15622 of app. Make and shades laid on 20mm thick cement mortar in 1:4 including grouting the joints with white cement and matching pigment(DSR 11.36)	3181.00	836.65	SQM	

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Item No.29	Distempering two coats with oil bound distemper of app. Quality and manufacture and of required shade on undecorated wall surface to give an even shade over and including a priming coat with cement primer of app. Brand and manufacture such as Berger, J&N etc. after thoroughly brushing the surface free from mortar dropping and other foreign matters and also including the surface even with plaster of paris or app. synthetic materials .(S.I. No.649+650)	12705.00	60.00	SQM	
Item No.30	white washing three coats including supply of all materials, labour, tools and plants etc required for proper completion of work.	8710.00	14.00	SQM	
Item No.31	Finishing wall with water proof cement paint of approved make and quality on new surface with three coat to give an even shade including supply of all materials Labour,Tools & plants etc. required for proper completion of the work.[S.I. No. 660+661]	12706.00	63.00	SQM	
Item No.32	Supply and fixing of 4mm thick window glass panes of approved quality including supply of putty etc completion of required for proper completion of the work.(S.I.No.812 of Lucknow Schedule)	670.00	400.00	SQM	
Item No.33	P/F of hexagonal fan box with hexagonal side of 80mm dia of 16 swg sheet.(S.I.No. 1149/2009 of Elec.)	425.00	107.00	SQM	
Item No.34	P/F 18mm thick gang saw cut morror polished, premoulded and prepolished, machinre cut for kitchen plateform, vanity counters, window sills etc. of required size, app. Shades, colour and texture laid over 20mm thick base mortar in 1:4 cement & C. sand joints treated with white cement (D.S.R.-8.2.1.2)	250.00	2463.55	SQM	
Item No.35	Approximate cost of ISI marked aluminium fitting with screw for door & window etc. (for estimate purpose only).[SI.No.474]	1080.00	340.00	SQM	
Item No.36	Painting or varnishing work in small areas or new wood work with one coat(upto one squire metre of ready mixed paint and two coat of approved superiour quality ready mixed paint including supply of all Materials,labour,tools & plants etc. required for proper completion of the work.Paint to be used should confirm the ISI no.103-1950 [SI No.641+642]	915.00	81.00	SQM	

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Item No.37	Same as item no. 30 but in large area.	2430.00	75.00	SQM	
Item No.38	Providing and Laying "brick coba" 12mm thick laid with M-150class brick bat coba 750cm thick with gap of 15mm to each other, over 20mm thick base of cement mortar 1:4 cement and coarse sand mixed with water proofing compound spreading cement slurry mixed with aerelc cement concrete water porrfing compound filled gaps of coba & top of coba mortar mixed with water proofing compound. (New Item of Chapter -11)	1657.00	800.00	SQM	
Item No.39	Screeding over leaky roofs with bitumen paint at 10 lbs.per 100 sq ft or 1 lb per sq metre. i/c sweeping,cleaning the roof with brushes,heating of the paint up to the req uired temperature,pouring it on the surface,spreading of necessary quantity of approved coarse sand at 1 cft per 100 sft and including supply of all materials,labour Tools & plants etc.required for proper completion of the work. .[SI.No.543]	1657.00	40.00	SQM	
Item No.40	S/f of 10cm (4") internal dia P.V.C. Dowm pipes Everest or charminar make complete with bends with doors at top and plain at bottom and grantings and including supply of necessary M.S. clamp 2.5cm x 3mm (1" x 1/8") fixed to walls with and including supply of 15 cm (6") long 6mm. (1/4") dia nail and all materials, labour and T and P etc. required for proper completion of the work and also including repair of plaster pointing etc. if damaged during fixing of the pipes.(S.I.No.730a)	589.00	240.00	Rmt	
Item No.41	Engraving lines in plaster of outer face wall vertically and horizontally to display the surface as stone facing as directed by Engineer óin-charge,including supply of all material,labour, tools&plants etc.required for completion of the work.(Add for extra labour to all items of plaster)[SI.No.598]	6400.00	18.00	Rmt	
Item No.42	No. of flats including painting and also supply of brush etc completion of work.(M.R.)	85.00	50.00	Each	
Item No.43	Supply of solvent cement for fixing of P.V.C. pipe.(App. Rate)	105.00	150.00	Ltr	
Item No.44	Supply & Laying of cinder of app. Quality for filling of sunken portion of house.(App.Rate)	140.00	194.00	Cum	

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Item No.45	Making Khurras 45x45 cm with average minimum thickness of 5cm cement conc.mortar in 1:2:4	85.00	186.65	Each	
Item No.46	Supply of water proof compound for Sunken portion and roof plaster	85.00	250.00	Liter	
Item No.47	Supply of 70mm size locks of app. Quality	85.00	90.00	Each	
Item No.48	Making Gola with Cement Conc. in 1:2:4 cement, C.sand & 20mm stone grit including supply of all material, labour and T&P etc. completion of work (Analysing Rate)	11100.00	60.00	Rmt	
	<u>WATER SUPPLY & SANITARY ITEMS</u>	-	-	-	
Item No.1	P/F white vitreous china water closet quality pan indian type W.C. pan 580 x 440mm size with 100mm sand cast iron for P or S trap, 10 lit. low level PVC flushing cistorm (of approved make) with fittings C.I. / M.S. brackets 32mm dia flush pipe with fitting and clamps over flow arrangement with special and mosquito proof coupling of approved municipal design including painting of fittings and brackets cutting and making good the wall, floors wherever required . (S.I. No. 19.1)	85.00	2250.00	Each	
Item No.2	P/F white vitreous china water closet quality pan European type W.C. pan 580 mm dia with 100mm sand cast iron for P or S trap, 10 lit. low level PVC flushing cistorm (of approved make) with fittings C.I. / M.S. brackets 32mm dia flush pipe with fitting and clamps over flow arrangement with special and mosquito proof coupling of approved municipal design including painting of fittings and brackets cutting and making good the wall, floors wherever required . (S.I. No. 19.1)	85.00	2650.00	Each	
Item No.3	Supply & Fixing of Kitchen Sink of Steel star or soft line size 600x450x230mm including waste Jali as per direction of Engineer-in-charge.(M.R.)	85	1100.00	Each	
Item No.4	Supply & Fixing of R.S. bracket for flushing sistern or Sink etc. as per direction of E/I(S.I.N0.7 of Sanitary Material)	170	50.00	Each	
Item No.5	Supply & Fixing of 32mm dia P.V.C. waste pipe for Sink of app. Quality.(S.I.No.82 of water Supply Material)	85	50.00	Each	

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Item No.6	P/F 150mm dia PVC pipe(4Kg/Sqcm) of app. Quality ISI mark including cost of socket and cutting of holes as per required condition at site etc. all complete .(App. Rate)	102.00	251.00	Rmt	
Item No.7	P/F 100mm dia PVC pipe(4Kg/Sqcm) of app. Quality ISI mark including cost of socket and cutting of holes as per required condition at site etc. all complete .(App. Rate)	381.00	950.00	Rmt	
Item No.8	P/F M.S. holder bat clamps of app. Design to sand caste iron/cast iron pipe embedded in and including and cement concrete blocks 10 x 10 x 10 cm of 1:2:4 of 20mm nominal size including cost of cutting and holes and making good the wall etc (S.I. No. 22/38+24/15-23.81c)	425.00	77.00	Each	
Item No.9	P/F of C.I. Nahani trap of 100mm inlet and 75mm outlet ISI mark of app. Quality. (App. Rate)	255.00	250.00	Rmt	
Item No.10	P/F G.I. pipes 15mm dia complete with G.I. fitting and clamps including cutting and making good the walls etc with B class G.I. Pipes. (S.I. No. 21/1+23/1a) (65.70+18.00=83.70)	1600.00	92.70	Rmt	
Item No.11	P/F G.I. pipes 25mm dia complete with G.I. fitting and clamps including cutting and making good the walls etc with B class G.I. Pipes. (S.I. No. 121.25+22.00=143.25) (21/3+23/1c)	800.00	153.25	Rmt	
Item No.12	P/F 15mm nominal bore brass bib cock of approved quality conforming to IS 8931 200gm weight (S.I. No. 21/43a+23/2)(90.00+13.00=103.00)	340.00	115.00	Each	
Item No.13	Making connection of G.I. distribution with branch G.I. main by providing 20mm dia brass feroul C.I. mouth cover including boring and lapping the main. (App. Rate))	15.00	215.00	Each	
Item No.14	P/F of 20mm dia brass gate valve with C.I. wheel of approved quality for tank. (S.I. No.21/53)	85.00	740.00	Each	

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Item No.15	Const. of brick masonry chamber size 0.60x0.60x0.60m with M150 brick work in cement mortar 1:4with RCC top 10cm thick slab with 1:1.5:3 cement conc. Mix in 20mm gauge stone grit.(Analysing Rate)	9.00	3541.00	Each	
Item No.16	Supply & fixing of 100mm dia P.V.C. plain bend of App. Quality. (S.I.No.22/56+24/1c)	136.00	221.00	Each	
Item No.17	Supply & fixing of 100mm dia P.V.C. Door Tee of App. Quality.(M.R.)	204.00	260.00	Each	
Item No.18	Supply and Hoisting of low denisty Polyethylene seamless one peace moulded tank of 200 liter each 16 Nos of I.S.I. marked and placing the same in proper position including all taxes(S.No.2 of Chapter 19 of Locknow Schedule)	42500.00	6.00	Ltr	
Item No.19	Const. of brick masonry chamber size 0.30x0.30x0.38m with M150 brick work in cement mortar 1:4with RCC top 10cm thick slab with 1:1.5:3 cement conc. Mix in 20mm gauge stone grit.(Analysing Rate)	25	1468.00	Each	
Item No.20	P/F square mouth SW gully trap grsde 'A' complete with C.I. grating brick masonry chamber with M-150 bricks and water tight R.c.C. slab with M-20 grade mix as per standard design(App. Rate)	25	140.00	Each	
Item No.21	P/F 15mm nominal bore brass stop cock of approved quality conforming to IS 8931 200gm weight (S.I. No. 21/45+23/2)	85	115.00	Each	
Item No.22	Supply & Fixing of 15mm dia brass Ball float valve for Water Tank of app. Quality. (S.I.No.21/36)	170	140.00	Each	
Item No.23	Supply & Fixing of A.C. Cowel of 100mm dia complete as per direction of E/I. (S.I.No.22/69)	34	85.00	Each	
	Electircal Items				
Item No.1	Wiring point for light with 1.5 sq.mm. for PVC insulated multistrand single core copper conductor cable in heavy gauge PVC conduit pipe partly concealed in slab and partly concealed in wall complete with 14 SWG copper earth continuity wire piano type switch and ceiling rose/angle button holder on 3 mm thick phenolic laminated back light sheet etc. complete in all respect as directed by engineer-in-charge (S.I.138C/2010)	1275	403.00	Each	

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Item No.2	Wiring point for Plug with 1.5 Sq. mm. FR PVC insulated multistrand single core copper conductor cable in heavy gauge PVC conduit pipe partly concealed in slab and partly concealed in wall complete with 14 SWG copper earth continuity wire piano type switch and ceiling rose/ angle button holder on 3 mm thick phenolic laminated back light sheet etc. complete in all respect as directed by engineer in charge (S.I.141C).	510	220.00	Each	
Item No.3	Wiring point for fan/Fresh air Fan/Light duty exhaust fan with 1.5 Sq.mm. for PVC insulated multistrand single core copper conductor cable in heavy gauge PVC conduit pipe partly concealed in slab and partly concealed in wall complete with 14 SWG copper earth continuity wire piano type switch and celing rose/angle button holder on 3 mm thick phenolic laminated back light sheet etc. complete in all respect as directed by engineer in charge. (S.I.No.140-C).	510	486.00	Each	
Item No.4	Same as in Item no.1 but for Call Bell SI.No.142-C.	85	383.00	Each	
Item No.5	Supply and fixing of power plug with 15A/250 volt flush type switch and 5 pin 15A/250 Volt flush type universal socket in suitable MS box of 176 mm x 100 mm size with phenolic laminated bakelite sheet cover 3 mm thick with brass machine screw and cup washer (SI No.1139).	425	232.00	Each	
Item No.6	Wiring point for Two Way switch with 1.5 sq.mm. for PVC insulated multistrand single core copper conductor cable in heavy gauge PVC conduit pipe partly concealed in slab and partly concealed in wall complete with 14 SWG copper earth continuity wire piano type switch and ceiling rose/angle button holder on 3 mm thick phenolic laminated back light sheet etc. complete in all respect as directed by engineer-in-charge (S.I.132a/)	21	375.00	Each	
Item No.7	Supply and fixing of surface/flush mounting 8 ways SPN distribution board with 4 Nos. 6/16A MCB, 1 No. 32A DPMCB & 2 No. SPMCB blanking plate complete in all respect as directed by E/I (S.I. No. 1009+1024+1030B).	85	972.00	Each	

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Item No.8	Supply and wiring of sub main with 2 Nos.2.5 sq.mm. PVC insulated 1100V grade multistrand single core copper conductor cable in 20 mm dia. Heavy duty PVC conduit with 1 No.1.5 sq.mm FR PVC insulated conductor 1100V grade with multistrand single core copper conductor as earth continuity wire. (S.I. No.1304C).	1700.00	102.00	Rmt	
Item No.9	Same as in Item No 7 above but for 2 nos. 4 sq.mm. copper conductor (S.I. No.211C).	425.00	124.00	Rmt	
Item No.10	Supply and fixing of 32VA I.C. cut out of approved make of meter board complete in all respect (S.I.No.1112).	170	112.00	Each	
Item No.11	Supply and fixing of call bell of approved make of polished MDFEG/Teak ply board including making connection etc. complete in all respect (SI No.1101).	85	105.00	Each	
Item No.12	Supply and fixing of existing fan box bakelite sheet cover complete in all respect (M.R.).	425	40.00	Each	
Item No.13	Supply and laying of 6 sq.mm. 2 core of aluminium conductor PVC insulated armoured served sheeted cable 1100V grade at a depth of 750 mm below ground level over a cushion of 75 mm thick sand all around and protected with burnt bricks on sides and on top on surface, the cable run shall be fixed by E/I, complete in all respect. The amounting of the cable shall be properly connected with the earth conductor be clamped. (S.I.No.501a).	850.00	217.00	Rmt	
Item No.14	Supply of fixing of 6 sqmm 2 core of brass nickel plated compression gland for PVC insulated and armoured served sheeted underground cable including rubber etc. complete in all respect. The armoring of the cable shall be properly connected with the earth conductor be clamped (SI No.503a).	425.00	59.00	Rmt	
Item No.15	Supply of fixing of crimping, solderless, copper tin electroplated lugs of dowells/Ismile make suitable for 1.5 sq.mm. cables, including tapping with insulated tape etc. complete in all respect. (SI No.1129).	170.00	11.00	Each	

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Item No.16	Supply and erection of factory fabricated and wired metaled clad dust and vermin proof flush mounting panel complete with 100A heavy duty MCCB (35 KA) on incoming side complete in all respect. The board shall have suitable capacity electro electric aluminium bus bars as per IS 8623 insulated with heat sink sleeving and mounted of non hygroscopic support such as CMC/BMC support with data cable side cover. The switches shall be completed with suitable cable and boxes. Cable sockets compression clad and indicating lamp on incoming side etc. The job includes the grounding of the board as per direction of E/I. The switch board shall be fabricated with CRCA sheet with a min. thickness of 1.6/2 mm cubicle type switch board (M.R.).	85.00	15000.00	Each	
Item No.17	Supply and fixing of double leaf factory fabricated meter box cover with 3 mm thick expanded metal cover with mounting frame for 1500x1800x200mm size over existing sunk. The frame fabricated with 35x35x5mm angle iron and shutter fabricated with 35x5mm flat complete with handle locking arrangement. Hold fast, hinges and base 20 mm thick teak wood board for firmly fixed in sunk with the help of "J" hooks. The cover frames shall be painted with two coats of synthetic enamel paint over one coat of red oxide primer. Fixing arrangement of meter, Kit and bush ball shall be as per direction of E/I (M.R.).	85	5000.00	Each	
Item No.18	Supply and fixing burying of 600x600x6 mm (GI plaster vertically for earthing with its top at least 3M below ground level complete with 20 mm the GI pipe and funnel for watering and one earthing leads of 2 nos. 8 to 10 SWG G.I. wire in 1.5 mm GI pipe up to switch board (From apron to switch board the cost of copper wire and GI pipe will be extra) 30 cm square C.I. frame with hinged cover masonry housing alternate layers of charcoal and salt at least 150 mm thick all round etc. as per direction of E/I. SI 706.	170	3470.00	Each	
Item No.19	Supply and fixing of vertical down conductor of 32x6 mm G.I. Strip etc. for earthing conductor complete in all respects. (S.I. No.713A).	85	195.00	Rmt	
Item No.20	S/F of factory wired HPF box type flouriscent tube light fittings(S.I.No.453)	110	798.00	Each	
	Fire Fighting Work				
<u>SUBHEAD-I(B): FIRE PUMPS AND HYDRANT WORKS (NON SCHEDULED ITEMS)</u>					
	TERRACE LEVEL - FIRE PUMP				

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Item No.1	Supplying, storing, handling, shifting, installation, testing and commissioning, supervision of testing of electric driven terrace pump suitable for automatic operation of horizontal end section centrifugal type synchronous speed of 2900 rpm TEFC conforming to IP : 55 & Flexible coupling & coupling guard mounted on common bed plate of fabricated mild steel channel or cast iron type as required.				
1.1	Capacity 900 LPM at 3.5 Kg./Cm2 delivery pressure for fire hydrant network.	2	160061.00	Set	
	PANELS:				
	Supply, installation, testing and commissioning of following integrated, cubicle type, dead front, extensible, sheet steel control panel. The panel shall be suitable for 440 volts, 50 cycles, 4 wire supply				
	The following components and accessories shall be mounted with in each control panel.				
	One no 60 amps TP incoming MCCB with the following:				
	0-500 volts 96 x96 square mm voltmeter with selector switch and control fuses- 1 SET				
	0-100 amps 96 x96 square mm ammeter with CT's and selector switch- 1 SET				
	Phase indicating lamp with toggle switches.				
	Indication lamps for ON/OFF/TRIP status				
	Outgoing Feeders / Starters as below:				
	60 ATP MCCB with star / delta as starter suitable for 15 HP motor for Downcomer Pump - 1 Set				
	Provision in control panel to connect flow switch for automatic operation of roof fire pumps.				
Item No.1.2	PRESSURE SWITCH				
1.2.1	Supplying, installing, testing and commissioning 0 to 12 Kg/ cm2 ON/OFF pressure switch in delivery line of pump along with control wiring for auto starting and auto stopping of hydrant and jockey pumps.	2	7350.00	Each	

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Item No.1.3	Supply, fabrication (as per code), installation, testing and commissioning of Pressure vessels 450mm diameter and 1000mm high fabricated from 8-10mm M.S. plate with accessories inside painting with epoxy paint and outside with enamel.	2	28586.00	Each	
Item No.1.4	Providing, fixing, testing & commissioning of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45 deg. C temperature, working pressure 8.8 Kg/cm ² and test pressure 14 Kg/cm ² for :-				
1.4.1	100 mm dia	4	3352.00	Each	
Item No.1.5	Supply, installation, testing, trial run and commissioning of hydrants all complete as required and as approved				
1.5.1	Hose Cabinet				
Item No.1.5.1.1	MS fire hose cabinet 2100x900X600 door capable of accommodating fire hose reel, landing valve, hose pipes, fittings & accessories. The door shall have a front glass with lock and key arrangement & shall be painted with post office red colour (approval shall be taken on the basis of submitted sample before ordering) Cost of fire extinguishers not included in item rate. (Liasioing with civil contractor for making 1200x6000x2100 Recessed type mansoary box (by civil contractor).	24	55593.00	Each	
Item No.1.5.1.2	TAC approved M.S. fire hose cabinet (750x600x250mm) made out of 16 gauge M.S. sheet capable of accommodating landing valve, hose pipes, fittings & accessories. The box shall have a front glass door with lock and key arrangement & shall be painted with post office red colour (approval shall be taken on the basis of submitted sample before ordering) - for external and roof hydrant.	4	8167.00	Each	
Item No.1.5.2	63mm dia single outlet GM landing valve IS marked with suitable size bolts, nuts, washers and gaskets. Landing valve shall be TAC Approved Make.	24	17151.00	Each	
Item No.1.5.3	63mm dia twin outlet GM landing valve IS marked with suitable size bolts, nuts, washers and gaskets. Landing valve shall be TAC Approved Make.	0	36753.00	Each	

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Item No.1.5.4	First aid hose reel with 25 mm dia, 30 m long rubber hose, ball valve, piping and nozzle	24	11164.00	Each	
Item No.1.5.5	63mm reinforced rubber hoses (RRL) with male and female SS coupling, IS marked- 15 m long	56	9801.00	Each	
Item No.1.5.6	standard short size SS branch pipe with nozzle of 20mm nominal bor outlet with instantaneous type 63 mm dia coupling complete IS marked & TAC approved.	28	5717.00	Each	
Item No.1.5.7	Fire Axe	24	1225.00	Each	
Item No.1.6	Supply, installation, testing and commissioning ss orifice plates in pipelines to reduce pressure from 8 kg. to 3.5 kg/sq.cm.	28	3267.00	Each	
Item No.1.7	Providing, installing, testing & commissioning of fire brigade inlet connection (fire department connection) consisting of 4 Nos. 63 mm dia instantaneous inlet arranged on a 50 mm dia header, 1 No. 150 mm diameter Butterfly valve, 1 No. 150mm dia. Non-return valve and wall mounted box of M.S. construction with glass door to house the above mentioned components.	2	66573.00	Set	
<u>SUBHEAD-I (A): PIPING FOR FIRE FIGHTING SYSTEM (AS PER DSR-2014)</u>					
	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
Item No.1	All kinds of soil				
1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	72	208.30	Cum	
1.2	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required centering, shuttering and finishing smooth with				

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	6mm thick cement plaster 1:3 (1 Cement : 3 fine sand) on exposed surfaces complete.				
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	4.00	6269.80	Cum	
1.3	Constructing masonry chamber 90 x 90 x100 cm. inside with 75 class designation brickwork in cement mortar 1:5 (1 cement : 5 fine sand) for sluice valve with CI surface box 100 mm top dia. 180 mm bottom dia. And 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1 :5 :10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size and inside plastering with 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design with FPS bricks	2	11672.35	Each	
1.4	Providing and fixing C.I. double acting air valves of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc. if reqd. will be paid separately)				
1.4.1	50 mm dia.	2	4778.30	Each	
1.5	Providing & Fixing C.I.slauce valve(with cap) complete with bolts,nuts,rubber insertions etc.(the tail pieces if required will be paid separately)				
1.5.1	150 mm dia.pipe				
1.5.1.1	Class II	2	5694.00	Each	
<u>SUBHEAD-II(B):PIPING FOR FIRE FIGHTING SYSTEM (NON SCHEDULED ITEMS)</u>					
Item No.2.1	Providing laying, testing & commissioning of "C" class heavy duty MS pipe conforming to IS 1239/3589 (all pipes shall be ISI marked and of makes specified in the specifications) i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including excavation & providing cement concrete blocks as supports and anti-corrosive treatment to burried pipes by wrapping & coating with 4 mm thk. (OR 2 COATS of 2mm thick tape) anticorrosion tape along with two coat of black japan primer for under-ground pipe including digging and backfilling upto 1.0 mtr. below from G.L.for external work as per IS-909 (Specification for Underground Fire Hydrant				

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	Make: Jindal Hissar/ Surya/ Tata/ SAIL. (Under ground)				
2.1.1	100 nominal bore (class C)	60.00	1595.00	Rmt	
Item No.2.2	Supply and installation of Butterfly Valves of rating PN 1.6 with mating flanges generally as specified all complete.				
2.2.1	100 nominal bore	2	4037.00	Each	
Item No.2.3	Providing and laying cast iron non-return valve of rating PN 1.6 dule ISI marked with flanges generally as specified complete				
2.3.1	100 nominal bore	2	9131.00	Each	
Item No.2.4	Supply, installation testing & commissioning double flanged 'Y' strainers with M.S. body and SS 40-grade mesh strainer.				
2.4.1	150 nominal bore	2	14003.00	Each	
Item No.2.5	Providing, laying, testing & commissioning of "C" class heavy duty MS pipe conforming to IS 3589 and 1239 (all pipes shall be ISI marked and shall be one of approved makes) including fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. fixing the pipe on the wall/ceiling with suitable clamps and painting with two or more coats of synthetic enamel paint of required shade complete as per specificatipns and as required. (Above Ground)				
	Welded joint above 50mm diameter pipe.				
2.5.1	100 mm nominal bore (class C)	90.00	1398.00	Rmt	
2.5.2	80 mm nominal bore (class C)	4.00	977.00	Rmt	
2.5.3	65 mm nominal bore (class C)	4.00	822.00	Rmt	
2.5.4	50 mm nominal bore (class C)	4.00	648.00	Rmt	
2.5.5	40 mm nominal bore (class C)	4.00	483.00	Rmt	
2.5.6	32 mm nominal bore (class C)	4.00	428.00	Rmt	
2.5.7	25 mm nominal bore (class C)	4.00	352.00	Rmt	
		Total			
SUBHEAD- III (B): FIRE EXTINGUISHER (NON SCHEDULED ITEMS)					
Item No.3.1	Providing, storing, handling, shifting , intalation, testing & commissioning of portable fire extinguishers as desired below				
3.1.1	(A) 4.5 Kg carban dioxide extinguisher IS marked with high pressure discharge tube, horn, control valve, CCE app. Cylider .	19.00	14961.00	Each	
3.1.2	(B) 6 Kg Mono Ammonium phosphate(ABC) typepers cartrige operated extigush	19.00	5051.00	Each	