

DELHI DEVELOPMENT AUTHORITY
SOUTH EASTERN DIVISION NO. XI

NOTICE INVITING TENDER

Sealed item rate tender are invited for the following works by the Executive Engineer/ SED- XI, Vikas Sadan, INA upto 3.00 PM on behalf of DDA from the approved contractors of appropriate class of DDA, CPWD, MES, P&T & Railway on the dates mentioned below which shall be opened on the same day at 3.30 P.M. at Vikas Sadan (Press Building) near INA Market, New Delhi in the presence of intetending purchase of their authorised representatives.

The tender documents can be obtained on any working day from the CAU (SEZ) sale counter, press Building, Vikas Sadan between 11.00 AM to 3.00 PM on payment of cost of tenders (non- refundable) as well as amount of Earnest Money mentioned against each work on production of valid Enlistment Certificate and valid certificate of Registration with work contract cell of Sale Tax Deptt of GNCTD & Tax clearance certificate issued by the work Contract cell. Sale of tender forms will be stopped four days (including the date of opening) before the date fixed for the opening of tender documents.

The earnest money should accompany the tender application in the form of a call deposit receipt or demand draft of a schedule Bank guaranteed by the Reserve Bank of India in favour of A.O (CAU) SEZ/ DDA.

S.No. NIT No. Name of work	<u>Estt. cost</u>	<u>Last date of sale</u>
	<u>Earnest Money</u>	<u>Date of Opening</u>
	Cost of tender	Time allowed

NIT No. 31/SED-XI/2007-08

C/o Sewage treatment plant for Biologically treatment at Lala Lajpat Rai Memorial Park at Lajpat Nagar. SH: C/o treatment chamber, Boundary wall around treatment chamber and Pump house.

<u>Rs. 9,68,354/-</u>	
<u>Rs. 19,367/-</u>	
<u>Rs. 500/-</u>	Three month

No.F-5 (476) SED-XI/DDA/A/07-08

Dt.

Executive Engineer / SED-XI

Copy to:

1. CE (SEZ) DDA 2. SE, CC-16 3. Director (System) DDA for placing it in web site of DDA 4. FO To CE (SEZ) 5. PAO (EW) DDA 6. AO (W) 7. DDA Contr. Association (Regd.) 40-A Vikas Minar 8. In. Tax Officer Cont. Circle ITO 9. Contr. Association, CPWD Y-Shape Bldg. 10. Contr. Welfare Association (Regd) 12. A Barrack No. 1 Blk A Vikas Kuteer 11. Labour Commissioner, Rajpura Road 12. All EES/DDA. 13. EE/WD-12 14. All AEs/SED-XI 15. Chief Security Officer / DDA 16. HC/SED-XI 17. Tender clerk, Centralised Tender Office, Dharamshala Wali, Kali Masjid, Rurkman Gate. 19. AO CAU (SEZ), Shahpurjat, 20 Delhi Contr. & Builder Association, H.No. 5508, Ch. Prem Singh Bhawan, New Chandrawal, Ch. Bhim Singh Road 21. Trans Yamuna DDA Contr. Association (Regd) Gandhi Nagar. 22. Dy. Commissioner (Work Contract) Bikri Kar Bhawan I.P. Estate 23. Notice Board of SED-XI 23. Cashier/SED-XI/DDA 25. Delhi Govt. ontractors Welfare Assn (Regd) 174, Trivent Apptt near Police Stn. Vivek Vihar Delhi-110095. 26. DDA web site & .

Executive Engineer / SED-XI

**DELHI DEVELOPMENT AUTHORITY
NOTICE INVITING TENDERS**

Division SED 11

Sub Division IV

Tenders in the prescribed form are hereby invited on behalf of the Delhi Development authority for M/O Sewage treatment plant for Biologically treatment at Lala Lajpat Rai memorial bank at Lajpat Nagar. SH: C/o treatment chamber, Boundry wall around treatment chamber and pumphouse.

1. Estimated cost Rs. 9,68,354=00.
2. Contract document consisting of the details plans, complete specification, the Schedules of quantities of the various item of work to be done and a set of conditions of the contract can be seen/purchased at the C.A.U/SEZ/Sales Counter Vikas Sadan between 10 a.m. to 3 p.m. every day, except on Sundays and Public holidays.

(a) The site of the work is available.

3(a) The tenders shall be placed in sealed covers to be issued by the Division Officer duly superscribed the name of work, estimated amount date and date of opening and name of contractor to whom the tender document are sold. These tender will be submitted by the contractor at following location.

- i) At the Vikas Sadan For South East Zone
(ground floor)

Separate boxes are available for submission of tenders for each day of the opening . The contractor should ensure that tenders are placed in the proper boxes fixed and provided for the particular day upto 7 (Seven) days in advance (including date of opening during 10.00 a.m to 5 p.m. except the date of opening when it will be up to 3 p.m.) only.

(b) Offer can also be sent by the contractor through Registered Post to the Executive Engineer concerned but such offers must reach atleast one day before the date of opening of tenders.

(c) The tenders should be opened by the concerned Ex. Engineers on the date fixed at 3.30 p.m. at Vikas Sadan. Only registered contractor or one of their authorised representative (having proper authority on letter head of the contractor) will be allowed to enter into the premise where tenders will be opened.

4. Tender documents consisting of plans, specifications, the schedule of quantities of various clauses of work to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the EE-SED-11 between Hours of 11.00 AM & 3.00 PM from 11:00 AM to 3.00 PM on any working day Tender documents will be issued during the above mentioned hour on any working day from the office of CAU/SEZ/Division office/sale counter of Vikas Sadan on payment of the following amount.

- i) Rs. 500/- in cash as cost of tender (non refundable)

- ii) Earnest Money of Rs. 19367/- in cash / Receipt Treasury challan/Deposits at Call receipt of a scheduled bank/fixed deposit receipt of a scheduled bank/demand draft of a scheduled bank issued in favour of AO/CAU/SEZ/DDA. When amount of earnest Money is more than Rs. 5 lakh, part of earnest money is acceptable in the form of bank guarantee also in such case, minimum 50% of earnest money (but not less than Rs. 5 Lakh) shall be deposited in the shape as described above and for balance amount of earnest money bank guaranty will also be acceptable in favour of AO/CAU/SEZ/DDA.

5. The contractor should quote in figures as well as in word the rate and amount tendered by them. The amount of each items should be worked out and the requisite totals given.

6. When the contractor signs a tender in an Indian language the percentage above or below and the tendered amount in the case of PWD form no. 7 and the total amount tendered in the case of PWD forms Nos. 8 and 12 should also be written in the same language. In the case of illiterate contractor the rate /amount tendered should be attested by the witness.

8. Each tender must be submitted in sealed cover addressed to EE/SED-11/DDA.

(a) The Contractor whose tender is accepted shall execute an agreement on Rs. 50/- stamps paper retreating his acceptance of the execution of work on the rate and condition as set in the contract document.

9. The person/ persons, whose tender (s) may be accepted (herein after called the contractor) shall permit DDA at the time of making any payment to him for work done under the contractor to deduct a sum at the rate of 10% of the gross amount of each running bill till the sum along with the sum already deposited earnest money, will amount to security Deposit of 5% of the tendered value of the work. Such deduction will be made and held By DDA by way of security Deposit unless he/ they has/have deposited the amount of Security at the rate mentioned above in cash or in the form of Government Security at the rate mentioned above in cash or in the form of Government Security or fixed deposit receipts. In case a fixed deposit receipt of any bank is furnished by the contractor to the DDA as Part of the security deposits and the bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional Security to the DDA to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or any sums which may be due to or may become due to the contractor by DDA on any accounts whatsoever and in the event of his security deposit being reeducated by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good on cash or fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favor of the Engineer in-charge, any sum or sum which may have been deducted from, or raised by sale of his security deposit or any part thereof, the security deposit shall be collected from the running bills of the contractor at the rates mentioned above and the earnest Money if deposited in cash at the time of the tenders will be treated a part of the Security Deposits.

(a) Government papers tendered as Security will be taken @5% (five Percent) below its face value whichever is less. The market price of Government paper would be as ascertained by Divisional officer at the time of collection of interest and the amount to interest of the extent of deficiency in value of the Government paper will be with-held if necessary.

(b) Government securities will include all forms of security mentioned in rule 274 of the G.F.R except fidelity Bonds. This will be subject to the observance of the conditions mentioned under this rule against each of the security.

10. The acceptance of the tender will rest with the complete authority who does not bind himself to accept the lowest tender and reserve himself the authority to reject any or all the tenders without assigning any reason all the tenders which does not fulfill the prescribed condition or are in any respect are liable to be rejected.

11. Canvassing in connection with tenders is strictly prohibited and the tender submitted by the contractor who resort to canvassing shall be liable to rejection.

12. All rates shall be quoted on the proper form of the tender in figure as in words.

13. Item rate tender containing percentage below /Above will be summarily rejected.

13. (a) It may Please be carefully noted that no condition whatsoever shall be accepted by the department and the contractor is not prepared to execute the work at the terms and condition in the tender documents, he is requested not to tender for this work. It may be noted that if any contractor choose to submit conditionals tender in spite of clear direction given above, his tender shall be liable to be rejected summarily and his full earnest money shall stand forfeited. We will also be liable for being debarred from tendering in DDA for a period of six months.

13. (b) Monthly payment to the contractor will be made when the gross amount of the work done during the previous months is not less than indicated below:

<i>amount of contract</i>	<i>Gross Value of works since Previous bill should exceed</i>
Over Rs. 10 lacs value	Rs.25,000/-
Over Rs. 2 lacs upto Rs. 10 lacs	Rs. 10,000/-
Over Rs. 50,000 upto Rs. 2 lacs	Rs. 5000/-
Over Rs. 50,000/-	Rs. 2,500/-

14. On acceptance of the tender the name of the accelerated representative of the contractor who would be responsible for taking instructions from the Engineer in-charge shall be communicated to the Engineer-in-charge.

15. Special care should be taken to write the rates in figures as well as in words and the amount in figures only in such way that interpolation is not possible. The total amount should be written both in figures and in words.

In case of figure the word Rs. Should be written before the figure of and 'P' after the decimal figure e.g. Rs. 2.15p. and in case of words the words Rupees should be precede and the word paise should be written at the end. Unless the rate in whole Rupees and followed by the word only it should in variable be in two decimal places.

16. Delhi Development Authority does not bind itself to accept the lowest or only tenders and reserves to itself of accepting the whole or any part of the tenderer shall be bound to perform the same at same at the rate quoted.

17. Sales tax less tax, if any or any other tax on materiel in respect of this contract shall be payable by the contractor and DDA will not entertain any claim whatsoever in this respect.

18. A contractor must provide produce valid certificate of Registration with work contracts cell of sales tax department of GNCTD & the tax clearance certificate in from XI (under rule-8(2) of Delhi sales tax of works contract rule latest) issued by the said sale before the tender papers can be sold be him.

19. A contractor shall not be permitted to tender for works in the DDA Zone responsible for award and execution of contracts) in which any of this near relative is posted as Divisional Account or as an officer in any capacity between the grades of CE and JE (both inclusive) in the DDA. He shall intimate the name of his near relations, if any, who are working as Gr. A,B or C officers in DDA. He shall also intimate the name of the persons who are working with him any capacity or who are subsequently employed by him and who are near relatives of any Groups A,B or C officers in the DDA. Any breach of this condition by the contractor would render him liable to action under clause 3 of the agreement. In addition, he would also be liable to be debarred from tendering in future.

20. The contractor shall give a list of non gazetted DDA employees related to him.

21. No Engineer of Gazetted officer employed in Engineering of Administrative duties in an Engineer Deptt. of the Govt. Service /Delhi Development Authority is allowed to works contractor for a period of two years of this retirement Govt. Service/Delhi Development Authority. This contract liable to be cancelled if either the contractor are any of this employees are found at any time to be such a person who had not obtained the permission of the Govt. of India/Delhi Development Authority as aforesaid before submission of the tender or engagement in the contractor's Service. The Engineering Deptt. Of Govt. of India includes the Engineering Deptt. Of DDA CPWD, MES, P&T.

22. The Tender for works shall remain open for a period of ninety days from the date of opening of tenders. If any tender withdraws his tender before the said period or makes any modification in the terms and conditions of the tender which are not acceptable to the deptt. Then DDA shall without prejudice to other right or remedy bear liberty to forfeit the entire amount of the earnest money absolutely.

23. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered for the same work. Failure to observe this condition would render the tender of the contractor tendering as well as witnessing the tender liable to summarily rejection.

24. Approved and eligible contractors of CPWD and those of appropriate class of DDA, P&T and MES are also eligible to tender.

25. The facility of exemption from depositing the money by virtue of executing the bond was withdraw w.e.f. 20-12-89 and all the bond stands cancelled from this date. Each intending tenderer has to deposits the required earnest money with individual tenders as mentioned in para-8.

26. While quoting the rate in schedule of quantities the word only should be written closely, following the amount and it should not be written in the next line.

27. The tender for the composite work includes the building portion, sanitary, water supply and drainage work.

28. The tender apart from being a class | B&R contractor, must associate himself with agencies of the appropriate class which are eligible to tender for Sanitary and water supply installation.

29. The contractor shall submit the list of work which are in hand (progress).

PERFORMA FOR CLAUSE – 29

Name of work	Name of particulars of Division where the work is being executed	Amount Position of of work	Remarks Work in Progress
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30. The tenderer shall inspect and study the drawings referred to in the tender document in the office of the Executive Engineer before and for the purpose of submitting the tender.

30A. In the case of items rate tender invited on from PWD-8 the contractor should quote his rates only in one language, i.e, either in Hindi or English. Rates should be quoted in figures as well as in word. In case a contractor has quoted rates in both the languages and the rates so quoted differ or the rate quoted in word and figure differ, then the lowest rates quoted by contractor shall be treated as the rate quoted by the contractor.

31. That only sealed tenders in the envelop dully described name of worked, date of opening and the name of division shall only considered and accepted. Envelop shall be given along with the tender by the tender clerk at selling counter.

ADDITIONAL CLAUSE

1	Case of withdrawal of offer	Action to be taken
(i)	If the contractor modifies /withdraw their offer within 90 days of quoting the rates	The earnest money deposited by the contractor shall be forfeited absolutely.
(ii)	If the contractor /draw his offer immediately after the award of work	The earnest money deposited by the contractor shall be forfeited absolutely
(iii)	If the contractor /agency with draw his after award of the work after taking over	It is deemed that the contractor has entered into contract and the action under clause 2 & 3 of the agreement i.e. taking up work at the risk and the cost of the Contractor and to penalise the contractor for not completing the work within the stipulated period will be taken against the contractor if he abandons the site after taking over the possession of

site from the engineer in charge. For taking action under clause 2 & 3 the only documentary proof required will be the document showing signature of the contractor or his authorised representative for taking over the possession of site. It is further clarified that action under clause 2 & 3 of the agreement is attached even though the contractor fails to sign the agreement of Rs. 50/- non-judicial stamp paper but do not start the work from the tenth day after the date on which the order to commence the work is issued to contractor. The date of start of the work will be considered as date of taking over the possession of site. In case of tender for supply of material the documentary proof for start of work will be the submission of samples for approval to Engineer-in-charge i.e.

Signature of Divisional Officer For
and behalf of D.D.A. Dt. New Delhi.
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Copy Forwarded to:

1. The Secretary, Contractor's Association, Vikas Kuteer, DDA & Central P.W.D. 'Y' Shape Building, I.P. Estate, New-Delhi.
The receipt of this notice may please be acknowledged under seal of Association's Office.
2. The all SES Circle No. D.D.A., New Delhi.
3. The all EEs, Division No., D.D.A.
4. Notice Board, Chief Engineer's New Delhi.
5. Divisional Accountant, Division No. D.D.A., New Delhi.
6. Asstt. Engineer, Sub-Divn. No., Division No. SED-11 D.D.A. New Delhi.
7. Head clerk for recording a copy in the work file.
8. Director (System), DDA for displaying the NIT on DDA website.

Executive Engineer
S.E.D.-II, D.D.A.
Vikas Sadan, New Delhi.

Schedule of Quantities

NAME OF WORK : C/O Sewage Treatment Plant for Biological Treatment at Lala Lajpat Rai Memorial Park at Lajpat Nagar.

SUB-HEAD : C/O Treatment Chamber, Boundary wall around treatment chamber and pump house.

Sl. No.	Description of item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1.	Earth work in excavation over areas (exceeding 30 cm. in depth 1.5m, in width as well as 10 sqm. on Plan) including disposal of excavated earth, lead upto 50 m. and lift upto 1.5m, disposed earth to be levelled and neatly dressed. a) All kinds of soil.	489.00 m ³	Cum		
2.	Earth work in excavation in foundation trenches or drains (not exceeding 1.5m. in width or 10sqm. on plan including dressing of sides and ramming of bottom, lift upto 1.5m. including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50M. a) All kinds of soil.	68.00 m ³	Cum		
3.	Extra for every additional lift of 1.5m. or part thereof in: a) All kind of soil.	152.00 m ³	Cum		
4.	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm. in depth, consolidating each deposited layer by ramming & watering, lead upto 50M. & lift upto 1.5m.	56.00 m ³	Cum.		
5.	Disposal of excavated earth by manual labour (extra labour on Item No. 1 & 2 for extra lead beyond 1 st 50m. within works area.	502.00	Cum.		
6.	Providing and laying in position cement concrete of specified grade excluding the cost of centring & shuttering – All work upto plinth level. a) 1: 5: 10 (1 cement : 4 course sand: 8 graded stone aggregate 40 mm nominal size). b) 1: 4: 8 (1 cement: 4 course sand: 8 graded stone aggregate 40 mm nominal size).	10.00 m ³ 48.00 m ³	Cum. Cum.		

	c) 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	4.00 m3	Cum.		
7.	Brick work with F.P.S. bricks of class designation 75 in a) Cement mortar 1:4 (1 cement : 4 coarse sand). b) Cement mortar 1:6 (1 cement : 6 coarse sand).	168.00 m3 45.00 m3	Cum. Cum.		
8.	Brick work with FPS bricks of class designation 75 in super structure above plinth level upto floor V level, in Cement mortar 1:6 (1 cement : 6 coarse sand).	15.00 m3	Cum.		
9.	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 12.5mm nominal size).	13.00 m2	Sqm.		
10.	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using .7 kg. per sqm. on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	13.00 m2	Sqm.		
11.	Supplying and filling in plinth with jamuna sand under floors including watering, ramming consolidating and dressing complete.	2.00 m3	Cum.		
12.	Cement concrete flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. a) 50mm thick with 20 mm nominal size stone aggregate. b) 40 mm thick with 20mm nominal size stone aggregate.	140.00 m2 21.00 m2	Sqm. Sqm.		
13.	Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitred and welded with 15 x 3 mm lugs, 10 cm. long, embedded in cement concrete blocks 15 x 10 x 10 cm. of 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and	3.00 m2	Sqm.		

	special metal sash putty of approved make complete including applying a priming coat of approved steel primer, excluding the cost of metal beading and other fitting except necessary hinges or pivots as required. a) Windows-side hung.				
14.	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel T-sections, joints mitred and welded with 15 x 3 mm lugs 10cm. long embedded in cement concrete blocks 15 x 10 x 10 cm. of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 m nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as require including fixing or necessary butt hinges and screws & applying a priming coat of approved steel primer.	16.00 Kg	Kilogram		
15.	Providing and fixing 1 mm thick M.S. sheet door with frame of 40 x 40 x 6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. a) Using M.S. angle 40 x 40 x 6 mm for diagonal braces.	2.00 m2	Sqm.		
16.	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete. a) 300 x 16 mm	2 Nos.	each		
17.	Providing and fixing ISI marked oxidised M.S. tower bolt black finish (Barrel type) with necessary screws etc. complete. a) 250 x 10 mm b) 150 x 10 mm	1 No. 1 No.	Each Each		
18.	Providing and fixing ISI marked oxidised M.S. handles conforming to IS: 4992 with necessary screws etc. complete. a) 125 mm	2 Nos.	Each		

19.	Providing and fixing bright finished brass casement window fasteners of minimum weight 200 grams to side hung steel windows with necessary welding and machine screws etc. complete.	2 Nos.	Each		
20.	Providing and fixing bright finished brass peg stays to steel ventilators with necessary welding and machine screws etc. complete. a) 300 mm long of minimum weight of 330 grams.	2 Nos.	Each		
21.	Painting with synthetic enamel paint of approved brand and manufacturer to give an even shade. a) Two or more coats on new work.	108.00 m2	Sqm.		
22.	15 mm cement plaster on the rough side of single or half brick wall of mix 1: 6 (1 cement : 6 fine sand).	94.00 m2	Sqm.		
23.	Dholpur sand stone slab 25mm thick fine dressed in risers of steps, skirting, dado and pillar lid on 12mm average thick cement mortar 1:3 (1 cement : 3 coarse sand) and joints with grey cement and pointing with cement mortar 1: 2 (1 cement : 2 stone dust) mixed with pigment to match the shade of stone complete.	192.00 m2	Sqm.		
24.	Stone work, plain in copings, cornices, string courses & plinth courses, in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. a) Red sand stone 40mm thick of uniform thick on both the edge of coping.	45.00 m2	Sqm.		
25.	6mm cement plaster to ceiling of mix 1:3(1cement:3 fine sand).	21.00 m2	Sqm.		
26.	White washing with lime to given an even shade, a) Now work (Three or more coats).	75.00 m2	Sqm.		
27.	Finishing walls with water proofing cement paint "Snowcem-Plugs of M/s Snowcem India Ltd. or equivalent of required shade. a) Now work (Two or more coats applied @ 3.84 Kg. / 10 sqm.	33.00 m2	Sqm.		

28.	12mm Cement plaster 1: 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement.	267.00 m2	Sqm.		
29.	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement – All work upto plinth level. a) 1 : 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	267.00 m2	Sqm.		
30.	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 150 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5: 3 (1 cement : 1.5 coarse sand; 3 graded stone aggregate 20 mm nominal size)	3.00 m3	Cum.		
31.	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position & binding all complete. a) T.E.T. Bars.	500.00 Kg	Kilogram		
32.	Centring and shuttering including strutting, propping etc. and removal of form for: a) Foundations, footings, bases of columns etc. for mass concrete. b) Suspended floors, roofs, landing, balconies & access platform.	36.00 m2 23.00 m2	Sqm. Sqm.		
33.	Painting top of roofs with bitumen of approved quality at 17 Kg. per 10 sqm. impregnated with a coat of coarse sand at 60 cudm. per 10 sqm. including cleaning the slab surface with brushes and finally with a piece for cloth lightly soaked in Kerosene oil complete. a) With residual type petroleum bitumen for penetration 80/100.				
		21.00 m2	Sqm.		
34.	10 cm. thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25mm thick mud mortar with bhusa at 35 Kg. per cum. of earth and gobi	21.00 m2	Sqm.		

	leaping with mix 1 : 1 (1 clay : 1 cow dung) and covered with machine moulded tile bricks of class designation 125 conforming to IS: 2690 (Part-I) – 1992 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% curde oil by weight of cement and finished neat. a) F.P.S. brick tiles.				
35.	Providing gola 75 x 75 mm in cement concrete 1: 2: 4 (1 cement : 2 coarse sand: 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand)	18.00 M.	Metre		
	a) In 75 x 75 mm deep chase.				
36.	Making khurras 45 x 45 cm. with average minimum thickness of 5 cm. cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete.	1 No.	Each		
37.	Providing and fixing on wall face unplasticised – Rigid PVC rain water pipes conforming to IS: 13592 Type – A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. a) Single socketed pipes 110 mm diameter.	3.00 M	Metre		
38.	Providing and fixing on wall face unplasticised – PVC moulded fittings / accessories for unplasticised – Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. a) Shoe (Plain) 110 mm shoe.	2 Nos.	Each		
39.	Providing orange colour safety foot rest of minimum 8 mm thick plastic encapsulated as per IS: 10910 on 12mm dia steel bar conforming to IS: 1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs	80 Nos.	Each		

	having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to withstand the bend test and chemical resistance test as per specifications & having manufacturer's permanent identification mark to be visible even after fixing, including fixing in mainholes with 50 x 20 15 cm. cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.				
40.	Excavating trenches of required width for pipes, cables etc. including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 1.5, 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 50M. a) All kinds of soil. i) Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia.	29.00 M	Metre		
41.	Providing and fixing C.I. sluice valve (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately). a) 100 mm diameter Class-I. b) 300 mm diameter Class-I.	5 Nos. 4 Nos.	Each Each		
42.	Providing and laying S & S Centrifugally cast (spun) / Ductile iron pipes conforming to IS: 8329. a) 100 mm dia Ductile iron Class K-7 pipes. b) 300 mm dia Ductile iron Class K-7 pipes.	182.00 M 18.00 m	Metre Metre		
43.	Providing and laying D.I. Specials of Class K-12 suitable for push-on jointing as per IS: 9523 a) Upto 600 mm dia.	2.00 Qtl.	Quintal		
44.	Providing and laying non-pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in				

	the proportion of 1: 2 (1 cement : 2 fine sand) including testing of joints etc. complete. a) 300 mm dia R.C.C. pipe.	11.00 M	Metre		
45.	Providing push-on-joints to Centrifugally (spun) cast iron pipes or Ductile iron pipes including testing of joints and including the cost of rubber gasket. a) 100 mm dia pipes.	36 Nos.	Each		
46.	Steel work welded in built up sections/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. a) In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works.	1768.00 Kg.	Kilogram		
47.	Providing and fixing 63mm dia, 600 mm long air diffuser of EPDM membrane with support of PVC mould, clamps, nozzle conforming to SS-304 with 50 mm down air pipe of SIMA make or equivalent having air void ratio more than 80% maximum air/sqm. of membrane area 60 cum./sqm./hour, membrane area 0.118 sqm. including all operation complete as per direction of Engineer-in-charge.	15 Nos.	Each		

SPECIAL CONDITION

Agency will submit the design alongwith design calculation of Sedimentation Tank and Pump House and the same will be got approved from competent authority of DDA before execution of work. Nothing extra shall be paid on this account.

Material: Cement 42.00 M.T. @ Rs. 4600/-
Twisted Deformed bars 0.50 M.T. @ Rs. 30811/-

Executive Engineer
South Eastern Division – XI
D.D.A. Vikas Sadan, N. Delhi