

DELHI DEVELOPMENT AUTHORITY

ELECTRICAL DIVISION NO. 5

(IN LIEU OF PWD-6)

CENTRAL NURSERY, SECTOR.5

DWARKA PHASE-I, NEW DELHI

NIT NO:14, 16, & 17/EE/El.D.5/DDA/08-09. (FOR SPECIALISED WORKS).

Sealed item rate tender are invited for the following works by the Ex. Engineer (E), Elect. Divin. No.5/DDA, Central Nursery, Sector-5, Dwarka Ph. I, New Delhi up to 3.00 PM on the dates mentioned below against each work on behalf of DDA from the approved contractors of appropriate class of DDA, CPWD, Railways, MES, P & T & Specialized firms who meet the following conditions which shall be opened on the same day at 3.30 P. M. at Ground Floor, Vikas Minar, DDA Office I. P. Estate, New Delhi in the presence of intending purchaser or their authorized representative.

The enlistment of the contractors should be valid on the last date of sale of tenders.

In case only the last date of sale of tenders is extended, the enlistment of contractor should be valid on the original date of sale of tenders.

In case both the last date of receipt of application and sale of tenders are extended, the Enlistment of contractor should be valid on either on the two date i.e. original date of sale of tender or on the extended date of sale of tenders.

1. The annual financial turnover (gross) in Elect. Construction works in one of the preceding three financial years shall not be less than 100% of the estimated (gross) audited by Chartered Accountant on annualized basis (depending upon the time allowed for completion i.e. total estimated value divided by time of completion).
2. The satisfactory completion of at least two works of similar nature/class, each costing not less than 50% of the estimated cost (gross) of the proposed work in the Central/ State Govt./ Public Sector Undertaking / Govt. Autonomous bodies during the last five years.

The tender documents can be had on any working day from the office of Ex. Engineer (E), Elect. Division No.5/DDA between 11.00 A.M. to 3.00 P.M. on payment of cost of tender (non-refundable) mentioned each works on production of valid Enlistment Registration Certificate and valid Registration with works contract cell of sales tax department of GNCTD and tax clearance certificate issued by the works contract cell in form-XI. Sale of tender forms will be stopped 4 days (i/c the date of opening) before the date fixed for the opening of tender documents.

The manner of submission of tender, opening of the same and entry of contractors, their authorized representative to the place of opening shall be as provided in Clause-3(a), (b) and (c) of PWD-6 forming part of the tender documents.

EARNEST MONEY: The earnest money should be deposited along with tender documents in cash up to Rs.10,000.00 only, Receipt Treasury Challan / C.D.R. / F.D.R. / D.D. of Scheduled Bank issued in favour of Sr. A.O. (CAU) Dwarka, DDA, New Delhi. It should, however, be ensured that FDR / Pay Order is valid for a period of Six Months or more after last date of receipt of tender. The tender of the agency who does not enclose the earnest money in the prescribed manner shall be summarily rejected.

Sl.No.	Name of work.	Estt. Cost.	Last dt.of sale.	Time allowed
		E. Money T. Cost.	Dt. of opening	
1.	M/O various colonies at Dwarka under Nazul A/c-	Rs.8,68,249.00	18-07-08	12 Months
	II. SH: M/O E.I. & fans i/c preventive maintenance	Rs. 17,365.00	22-07-08	
	of Sub .Station equipment and D.G. set at Dwarka Sports Complex Sector-11 Dwarka Ph.I.	Rs. 500.00		
2.	M/O completed/closed scheme at Dwarka.	Rs.12,53,869.00	21-07-08	12 Months
	SH: Operation and Maintenance of Lifts, D.G.Sets	Rs. 25,077.00	25-07-08	
	(200KVA) common area lighting of 266 HIG(236 cat-III & 30 cat-II) of Gr.I and clear water booster pump Sets, D.G. set (82.5 KVA) & Submersible Pump set of 448 LIG, 432 MIG & 568 HIG DU's at Sector 18-B Dwarka.	Rs. 500.00		

3. M/O completed/closed schemes at Dwarka.	Rs.12,28,590.00	21-07-08	12
SH: Operation & Maintenance of Lifts, D.G. set	Rs. 24,572.00	25-07-08	Months
(200 KVA) common area lighting for 302 HIG DU's	Rs. 500.00		
(284 cat-III & 18 cat-II) Gr.II and Fire Fighting Pump			
Sets, P.A.system & Fire Alarm system for 568 HIG			
DU's Gr. I & Gr.II.			

Executive Engineer (E)
Elect. Divn. No.5/DDA.

No: F.3(5)/El.D.5/A/Cs/DDA/08-09/ 830 Dated: 14/7/08

Copy to:

1. CE(E),D-4, V.Kunj,DDA. (2) FO to CE(E),D-4,V.Kunj,DDA.(3)SE(E)-I,Office Complex Manglapuri DDA.(4) EE(QCC)-E,Vikas Sadan,DDA.(5) EE/El.D.1,4,6,7,8,9,10,11,12 & Elect.Flyiver Divn. No.1/DDA. (6) AO(W)-II,Vikas Sadan DDA. (7)AO(CAU)/DWK./DDA.(8)AAO/El.D.5/DDA.
9. H/C/El.D.5/DDA.(10)AE(P)/El.D.5/DDA.(11)AE(E)-3/El.DS.5/DDA.(12) Tender clerk, Tender sale counter,Ground floor Vikas Minar,DDA. (13)Asstt. Security Officer, Vikas Minar,DDA.(14) DDA Builders Association (Regd.) C-29, Panchsheel Enclave ,N.Delhi.(15) DDA contractors Welfare Association (near enterence barrack No.1)Vikas Kuteer,N.Delhi. (16) DDA contractors Association,48-A, E-18, Vikas Kuter N.Delhi. (17)The Secy. CPWD contractors Welfare Association (Regd.) Y-Shape Bldg.I.P.Estate,N.Delhi. (18)The Gen. Secy. Contractor Association (Regd.) Arya Samaj Bazar Sita Ram,N.Delhi. (19) Elect. Engrs. Contractor Association 2362/1 Maharaja Complex West Patel Nagar, N.Delhi. (20)Elect. Contractor Association(Regd.) 41-A,Ph.II, Mayapuri Indl.Area,N.Delhi. (21) The Delhi contractors & Builders Association (Regd.) H.N.5503, Ch. Prem Raj Bhavan, Ch. Bhim Singh Road, New Chandrawal Delhi-7. (22)The sales tax officer, works contract cell ,Bikrikar Bhavan I.P.Estate,N.Delhi. (23) The Secy.(CRB), Vikas Minar,N.Delhi. (24) All Delhi DDA & MCD contractors Welfare Association (Regd.)253, Partap Khand Vishwekarma Nagar , Delhi-95. (25) Delhi Contractors Welfare Association (Regd.),88-B,(FirstFloor),JwalaHeriMarket,PaschimVihar,N.D.63.Elect.Divn. (C.W.G.)-2/DDA B-1/12/13 Community Centre, Janak Puri, New Delhi.(27) Notice Board/ El.D.5/DDA. (28) Director (System) Through Website ddatender@dda.org.in.

EXECUTIVE ENGINEER (E)

SCHEDULE OF WORK

NAME OF WORK:- M/O Completed/closed Scheme at Dwarka (SH: Operation & Maintenance of Lifts, D.G Set (200 KVA) Common Area Lighting for 302 HIG Du's (284 cat.III & 18 cat.II) Group-II and Fire fighting pump sets, P.A. System & Fire alarm system for 568 HIG DUs Gr. I & Gr.II)

S.No.	Description of Item	Qty	Rate	Unit	Amount
1.	Operation of lifts as per Inventory and terms and condition attached.	12 Months		P/Month	
2.	Operation and Maintenance of fire fighting pump set, fire alarm system, P.A system, D.G set 200 KVA, Diesel driven pump set & common area lighting.	12 Months		P/Month	
3.	Supplying & Replacement of following items				
a.	Flourscent Tube 40 watt.	900 Nos		Each	
b.	Copper wound choke/Ballast suitable for 40 watt tube.	200 Nos		Each	
c.	100 Amps MC.C.B 4 pole breaking capacity 25 KA .	8 Nos		Each	
d.	350 Amps, 415 volts 3 pole A.C. contactor for AMF panel.	2 Nos		Each	
4.	Supplying and replacement of Battery 12 V, 25 plate 180 AH polyprophylin container box i/c initial filling testing etc. as reqd.	4 Nos		Each	

2/-
of following capacity
5. Servicing of D.G set and Diesel driven engine i/c
replacement of following parts/items, testing etc.
as reqd.

A. 200 KVA D.G set

i. Oil filter-	1 No		
ii Fuel filter	1 set		
iii Engine oil	30 Ltr		
iv Coolent	15 Ltr	1 Job	Job

B. 77.3 KW diesel driven Engine

i. Oil filter	1 No		
ii Fuel filter	1 set		
iii Engineoil	15 Ltr		
iv Coolent	8 Ltr	1 Job	Job

Name of work:- M/O Completed/closed scheme at Dwarka for 568 HIG
(520 cat.III & 48 cat.II) multistoreyed houses in
sector 18-B Dwarka ph-II
SH: Operation & maintenance of lift, D.G set (200 KVA)
Common area lighting for 302 HIG apts Gr.II &
fire fighting pump sets, P.A system & fire alarm
system for 568 HIG Gr.I & II)

Part-A

LIFTS Alongwith control panels & Intercom system with
all accessories.

- | | | |
|----|-----------------------------|-------------------------------|
| a. | 8 Passengers (core 1,2,&3) | 6Nos (2 Nos in each core) |
| b. | 13 passengers (core 1,2,&3) | 3Nos (1 No in each skin core) |

Part-B

D.G. Set Complete with acoustic housing, batteries
(2Nos), MF panel with all accessories
& fuel tank etc.

Capacity: 200 KVA 1Set

Control panel comprising of:

- | | | |
|------|---|------|
| i. | 315 amps 415Volts IP&N front operated
SDFU-1No. | |
| ii | 63 amps 4 pole MCCB breaking capacity
25 KA 10Nos | |
| iii | power shunt capacitor (25 KVAR) - 2Nos | |
| iv | 400amps 4 strip Al. busbar-1Set | |
| v | Voltmeter 500V with selector switch-1No | |
| vi | Ammeter 0-400 A with selector switch-1No | |
| vii | Indicating lamp set (Neon type) with
key type switch and protection fuses-1set | |
| viii | MV Danger notice plate -1No. | 1Set |

Part-C

- | | | |
|-----|--|---------|
| i. | 320 Amp 4 pole Off load changeover
switch | 1No |
| ii | Suitable size of cables for operation
of lifts and common area lighting
(4x25 sqmm & 3½X50 sqmm) | 12Nos |
| iii | Earthing sets (plate/pipe) | 52 Sets |

FIRE FIGHTING PUMPS:

- | | | |
|------|--|-------|
| A. | 2850 LPM (100 H.P.) fire fighting pump set
(complete with valves & connecting pipe
net work) | 1Set |
| B. | 2850 LPM (100 HP) Diesel fire pump set <i>with panel</i>
(complete with valves & connecting pipe
net work) <i>with batteries - 2 Nos</i> | 1Set |
| C. | 280 LPM (25 HP) Jockey pump
(complete with valves & connecting pipe net work) | 1Set |
| D. | Submersible sump pump set
(capacity 250 LPM head-10 Mtr, 2900 RPM
415 V, 50HZ 3 phase) | 2Sets |
| E. | <u>Control panel comprising of:-</u> | |
| i. | 400 amp 4pole MCCB- 1No. | |
| ii | 400 amp fully insulated TP&N copper
busbar- 1set | |
| iii | 300 amp 3pole MCCB (for main electric
pump set)-1No. | |
| iv | 25 amps rating DP MCB (for supply of
diesel engine panel) -1No. | |
| v. | 63 amp 3 pole MCCB (for Jockey pump
set)-1No. | |
| vi | Fully automatic star delta starter
(for main pump)- 1No. | |
| vii | Fully Automatic star delta starter
for Jockey pump-1No | |
| viii | D.O.L starter suitable for 1.5 HP 3 phase
submersible pump set-2Nos | |
| ix | Rotary type auto/manual/off selector
switch-2Nos | |
| x. | Voltmeter 0-500 V with selector switch-2Nos | |
| xi | Ammeter 0-300 amp with CT & auto selector
switch- 1No | |
| xii | 16 Amps TPMCB (for submersible pump)-2No | |
| xiii | Ammeter 0-100 amp (for Jockey pump set)-1No | |
| xiv | Ammeter 0-25 amps for submersible pump-2Nos | |
| xv | 100 amps 4pole isolator MCB type-1No | 1 Set |
| xvi | Danger notice plate- 1No. | |

contd....

F. Single Headed Internal Hydrant Inlet complete with:-

- i. 63MM female Instantaneous outlet of gun metal with blank cap (200mm dia flange)-1No.
- ii ~~63mm~~ 63MM dia 15 Mtr long reinforced rubber lined hose pipe with gun metal coupling-2Nos
- iii First Aid hose reel swinging type with 30 Mtr length 20mm dia rubber lined hose terminating with gun metal nozzle complete with drum and suitable bracket-1No
- iv 63 MM dia Instantaneous pattern short branch pipe of gun metal with gun metal nozzle-1No.
- v. Gun metal ball valve 25mm dia -1No.

74 sets

G. Single headed external yard hydrant complete with:

- i. 63MM single female instantaneous outlet of gun metal alongwith the necessary fittings and tapping from main header (200mm dia flange) 1No.
- ii 63MM dia, 15 mtr long reinforced rubber lined hose pipe complete with gunmetal coupling-2Nos
- iii 63MM dia Instantaneous pattern short branch pipe of gunmetal with gun metal nozzle-1No

33 Sets

- H. Hose cabinet of size 900mmx600mmx600mm . 33Nos
- I Hose cabinet of size 1300mmx1100mmx600mm . 36Nos
- J. Hose cabinet shutter size 2100mmx900mm . 38Nos
- K. 3 way fire brigade outlet connection . 8Nos
- L 4 way fire brigade outlet connection . 1No
- M Fire Brigade draw out connection gun metal with foot valve^{on} water tank 1No
- N 200MM dia/100MM dia/80mm dia MS pipe line alongwith necessary valves for Ringmains & risers -
- O Wet Risers (Gr.I&II) 15Nos
- P. Air vessel 450mm dia 1 mtr high made of 8mm thick plate with fittings & gun metal air release valves 6Nos
- Q Vertical air vessel fabricated from 12mm thick M.S plate with dished ends 450mm dia and 1.5 mtr high for fire & jockey pumps complete with three pressure switches to operate Jockey, main and diesel engine driven pump at drop of pressure- 1Set

R. Fire Extinguisher CO2 gas type (for Gr.I&II) 4.5 kg capacity	74 Nos
S Water pressure gas type fire extinguisher of 9 mtr capacity (Gr.I&II)	74 Nos
T. Inter connecting cables for panel & pump set U. 400 Amps, 415 V, 4 Pole MCC B With Enclosure	1 No.
<u>PART E</u>	

Fire Alarm System:-

a. 8 zone manual fire alarm control panel with heavy duty power supply with battery charges accommodated with:-	
i. Ample fire rack with 250 watt amplifier (2Nos) with P.A Changeover switch along with Auto/Manual facility.	
ii P.A. Selector console 8 zone with all zonal panels	
iii professional grade Music system	
iv Goose neck microphone with On/Off switch	
v. Monitor panel with speaker volume control, indication etc.	
vi 26AH maintenance free battery i/c battery box housing with boost charger	
vii Indicating system for fire & fault, led lamps for visual indication, audio alarm unit, push button for acknowledge test, reset and terminals.	1 Set
b. Manual call box/Manual break glass units with hammer & chain	
b. Fire alarm control panel (Gr.I&II)	
i. 16 zone manual fire alarm control panel	2Nos
ii 13 zone manual fire alarm control panel	2Nos
iii 10 zone manual fire alarm control panel	2Nos
c. Manual call box/manual break glass units with hammer & chain (Gr.I&II) <i>duly wired</i>	77Nos
d. Electronic wall mounting speakers/sounders suitable for both public address and fire alarm/ hooting (Gr.I&II) <i>duly wired</i>	77Nos
e. Stainless steel fire Exit exit sign (Gr.I&II)	83Nos

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f. PVC insulated PVC sheathed copper cond armoured cable of 1.1KV grade laid from main panel to control panels (Gr. I&II)

a. 19 core X 1.5mm²

b. 16 core X 1.5sqmm

c. 14 core X 1.5sqmm

Qd
JE(E)

P
AE II

JE(P) AE(P)

EE/ED5

INVENTORY

Work — M/o completed / closed Scheme at Dwarka for 568 HFG (520 Cat III & 48 Cat-III) Multi-storied Houses
 In Sector 18-B, Dwarka Phase-II.
 (SH — operation & maintenance of Lifts, D.G. Set (200 KVA), Common Area Lighting for 302 HFG DQ's Gr-II & Fire Fighting Pump Set, P.A. System & Fire Alarm System for 568 HFG Gr I & II)

LOCATION	Light Point	Fan Point	Exhaust Fan Point	5/6 Amps Plug Point	16/15 Amps Plug Point	1x40 Wall Box TYPE Fitting	Ceiling Fans 1200 mm	Exhaust Fans 380 mm	S.D.B.'s		8way TP&N MCB	MCB's			Blow King Plates	Double Dome Aviz-Tion Light	63A 4 Poles MCCB	100A 4 Pole Isolator MCB Type	70w HPSV Slat Light Fitting	Rubber 2 Mix 1M	Fire Extinguishers		Fire Buck set 9Ltr	
									8way	12way		6A SP	16A SP	32A SP&N							CO ₂ typ.			Mech Foam Type 9Ltr
																					4.5 kg	6.5 kg		
ROUND FLOOR:-																								
Car Parkings, Elect. Meter Room Corridors, Lift Core Passage 1,2 & 3	388	6	-	-	-	388	-	-	11	2	3	65	-	42	35	-	-	3	-	-	-	-	-	
FIRST FLOOR :-	-	-																						
Corridors & Lift Core Passages Core 1, 2 & 3.	109	6	-	-	-	109	-	-	3	-	-	16	-	3	2	-	-	-	-	-	-	-		
SECOND FLOOR	-	-																						
Corridor, Lift Core Passages Core 1, 2 & 3.	109	6	-	-	-	109	-	-	3	-	-	16	-	3	2	-	-	-	-	-	-	-		
THIRD FLOOR :-	-																							
Corridor, Lift Core Passage Core 1, 2 & 3.	107	6	-	-	-	107	-	-	3	-	-	16	-	3	2	-	-	-	-	-	-	-		
FOURTH FLOOR	-																							
Corridor, Lift Core Passage Core 1, 2 & 3	73	6	-	-	-	73	-	-	3	-	-	11	-	3	7	-	-	-	-	-	-	-		
FIFTH FLOOR																								
Corridor, Lift Core Passage Core No. 1	24	2	-	-	-	24	-	-	1	-	-	3	-	1	3	-	-	-	-	-	-	-		
Machine Room (Core 1, 2 & 3) (3 Noe)	18	12	3	3	3	18	6	3	3	-	-	6	3	3	9	-	9	-	-	6	3	-	3	
Continuous stairs case with Roof Terrace (6 Noe)	84	-	-	-	-	72	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-		
D.G Room	7	2	1	1	1	5	2	1	1	-	-	3	1	1	2	-	-	-	2	1	1	-	1	
Fire Pump Room.	10	3	2	1	1	8	3	2	1	-	-	3	1	1	2	-	-	-	2	2	-	2	1	
Total	929	49	6	5	5	913	11	6	29	2	3	139	5	60	64	3	9	3	4	9	4	2	4	

GA
 DE (E) PE II

TERMS & CONDITIONS

1. The work comprises of running and operation of lifts, DG set and common area lighting as per inventory attached.
2. The contractor shall depute the following staff under the contract.
 - a. Lift operator for 9 Nos (1No in each core in each shift in three shifts)
9Nos lifts in 3 core
 - b. Wireman Gr.I 1No (9 A.M. to 5 P.M.^{or} as and when required)
 - c. D.G. operator/pump operator Gr.I 3 Nos in three shift (1No in each shift)
 - d. Khallasi/Security Guard 3 Nos (1No in each shift)
- 3(i) CPWD General specifications for electrical work part-I internal 2005 & part-II external 1995 amended upto date.
(ii) Indian Electricity rule 2005 amended upto date.
4. The contractor shall employ trained and competent staff to the satisfaction of Engineer-in-Charge having two years experience on operation of pump/D.G set/Lift/ common area lighting.
5. The contractor shall supply the list of staff alongwith experience certificates to be engaged on the installation within 7 days of award of work Engineer-in-Charge shall have the right to reject any staff employed by the contractor. The staff employed by contractor should wear proper uniform and wear badges displaying their name and designation.
6. The contractor shall employ staff throughout the period of contract including Saturday, Sunday, Gazetted holidays and National holidays within the quoted rates.

2/-

7. Following records are to be kept at site of work
- printed log book for recording operation
 - Attendance register for staff deployed
 - Complaint/Inspection register.

NOTE: The contractor shall get the register authenticated from Engineer-in-Charge before use at site.

8. There are 3 lift cores having 3 lifts in each core (2 nos 8 passenger & 1 No 13 passenger).
9. The following minor maintenance including preventive maintenance shall be carried out by the contractor. The details of work carried out shall be recorded in the log book within quoted rates.
- S/Replacement of HRC fuses, voltmeter, Ammeter, Selector switches & cable jointing.
 - Replacement of Fl.Tubes incandescent lamps, choke/ballast and starters within quoted rates. However only flourecent tube & copper wound choke/ballast shall be supplied by the department.
 - Adjustment, alignment/tightening of nuts and bolts as and when required.
 - Replacement of burnt out thimbles, wire terminals etc.
 - Top up of battery water, S/Replacement of battery leads, & terminals if required.
 - Daily cleaning of equipments/D.G room p/house.
- 10 The D.G set shall be operated in case of electricity failure or as and when desired by the engineer-in-charge however POL shall be supplied by the department.
- 11 Co-ordination and followup action with electric supply agency shall be done by the contractor, incase of failure/fault in supply/fluctuation in voltage.
- 12 The contractor shall intimate the engineer-in-charge about the major breakdown or failure of electric supply in time.
- 13 Watch and ward of all the installation as per inventory enclosed shall be the responsibility of the contractor. Any loss due to theft or pilferage etc. shall be borne by the contractor within quoted rates.

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- 14 The payment to the contractor shall be made bi-monthly or at other suitable intervals desired by the contractor but not less than one calender month.
- 15 proper handling/taking over of all the E&M installations shall be carried out by JE(E) in charge of the work and the contractor in writing immediately after award of work/before start of work.
- 16 The contract is for a period of 12 months and the Engineer-in-charge if so desire may f extend the contract or terminate the agreement without assigning any reason. The decision of Engineer-in-Charge in this regard shall be final and binding on the contractor.
- 17a. If any ~~risk~~ installation not operated due to negligency of operational staff, recovery @ 300/- per shift per person shall be made from the bill ^{paid} to the contractor.
- b. If the operational staff is found absent/missing from their duty, recovery @300/- per shift per person shall be made from the R/A bill of contractor.
- 18 All allied accessories/installation shall be kept neat and clean and in working order and incase any damages/loss is done to the any installation due to the negligence of the operational staff deployed by the contractor, the contractor shall have to make good the damages/loss at his own cost. In case the contractor fails to rectify the damages/loss within reasonable time, the same shall be got rectified/replaced by the department at the risk and cost of the contractor.
- 19 The contractor shall keep all the necessary spares and T&P at site required for operation and maintenance to be carried under his contract.
- 20 In case of any disobediance or misbehaviour by the operational staff of the contractor, the engineer-in-charge may ask the contractor to dispense with the services of such staff with immediate effect. The contractor shall provide suitable substitute simultaneously.
- 21 The rates quoted by the contractor shall be inclusive of all taxes. duties and Govt levies etc.

- 22 The contractor shall ensure that the staff shall take all the safety precautions. Incase of any accident/mishappening the contractor shall be fully responsible. All safety ~~xxx~~ equipments shall be provided to the site by the agency.
- 23 One telephone/Mobile connection shall be provided at site i.e pump house/site office by the agency and bill of the same shall be paid by the agency.
- 24 For smooth functioning and operational staff ~~rx~~ the agency will provide at site one office table, 4 nos, chairs and one almirah for which nothing extra shall be paid.
- 25 The staff shall be given photo identity cards by the contractor displaying their name father's Name, Address, date of birth, name of agency with address and telephone No. site for which employed and period of validity. A copy of the identity card shall be given to the engineer-in-charge within 15 days of award of work.
- 26 The contractor shall inform the department and the concerned authorised such as DELHI FIRE SERVICE incase of fire at any location in the entire complex and shall take immediate remedial action/steps such as starting of ~~fire~~ fire pumps, hydrants as deems fit to extinguish the fire. The contractor shall ensure that the above fire extinguishing system are activated round the clock. Executive Engineer (S)/M.D.
- 27 Checking of leakages of pipe and accessories of pipes i.e valves flanges, sockets, bends etc. provided inside the complex & rectification of the leakages.
- 28 Carrying out pressure test in the entire wet riser system and checking of working of different fire pumps, P.A. System as and when required by Engineer-in-Charge.
- 29 Checking/oiling of all valves/Fire hydrants.

- 30 The staff shall be given photo identity cards by the contractor displaying their name, father's Name Address, date of birth, name of agency with address and ~~the~~ telephone No. site for which employed and period of validity. A copy of the identity cards shall be given to the Engineer-in-Charge within 15 days of award of work.

Executive Engineer (E)