

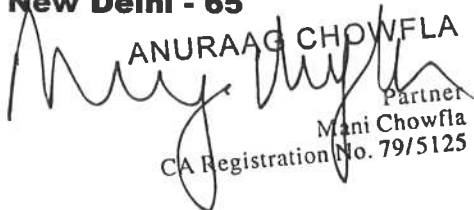
✓✓

PIONEER PARK "PRESIDIA" GROUP HOUSING AT SECTOR 62, GURGAON

SUBMISSION REPORT ON SERVICES PLAN / ESTIMATE

ARCHITECTS

M/s Manichowla Architects
56/3, Friends Colony,
New Delhi - 65


ANURAAG CHOWLA
Partner
Mani Chowla
CA Registration No. 79/5125

PLUMBING CONSULTANTS

M/s MKG CONSULTANTS
A -8, Paryavaran Complex
IGNOU Road,
New Delhi - 110030.
Tel. : 011 - 29532720


M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

For Pioneer Urban Land & Infrastructure Limited


Authorised Signatory

PROJECTS
PIONEER PARK "PRESIDIA" GROUP HOUSING
AT SECTOR 62, GURGAON

SUBJECTS
ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE AND STORM WATER
DRAINAGE FOR PIONEER PARK "PRESIDIA" GROUP HOUSING, GURGAON

Gurgaon town is an important town of Haryana State situated on Delhi-Jaipur National Highway No. 8 at a distance of 35 kms from Delhi. Being in the national capital region, the town has fast developing tendency and potential. Further it has also started sharing the growing industrial load of Delhi & Faridabad. In order of relieve the growing pressure of population in Delhi, it has been decided by the Haryana Govt. to establish various residential sectors along with infrastructure facilities in Gurgaon. Keeping in view the colony for residential development scheme has been planned. *Service Plan Estimate of Group Water Supply Housing Colony measuring 10.30 Acres out of 29.624 Acres in Sec. 62 Village Ghatu, Gurgaon has been framed vide DGTCP Memo No. 1675 dt. 09/02/11.*

1. **Source**

The source of water supply in this area is tubewell as underground water is sweet and fit for human consumption, moreover, the water is available at reasonable depth, the average yield of Tubewells, with approximate 60' to 80'; strainer will be about 20 KL per hour. 6 Nos. Tubewells are required to cope with the daily requirement of water for the initial period of 5 years by which time canal water is expected.

2. **Tubewells**

The proposed tubewells shall be 510 mm bore drilled with reverse rotary rig and installed with 80 mm i/d housing pipe and 50 mm i/d slotted tube as strainer. The provision taken in the estimate under the sub-head tubewell includes the cost of peagravel packing. The lift of tubewell is limited due to incrustation and rusting of strainer. Therefore, out of these tube wells the drilling of tubewells will be done for 2 & 6 Nos. tube wells and further tubewells will be drilled as the demand develops till the scheme is handed over the department or till the canal filtration scheme starts supplying water, whichever is earlier.

3. **Pump Chambers and Pumping Machinery**

It is proposed to equip each tubewell with an electricity driven pumping set-Ejecto type or submersible pump capable of delivering about 20,000 Ltrs per hour. It is also proposed to equip 2 Nos. pumping sets with stand by diesel gen set engines for operation during failure of electricity at four locations.

4. **Ground Storage**

Underground storage tank for One day of total daily demand of water supply have been proposed at two locations in the scheme. The same shall be fed by 6 Nos. of tube wells at present and shall be later augmented through HUDA mains canal supply at later date.

6. **Distribution System**

The distribution system for this development are has been designed for 172.5 Liters per person per day @3.0 times the average rate of flow on "Hazen

ANURAAG CHOWLA

Partner
Mani Chowla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

For Pioneer Urban Land & Infrastructure Limited

Authorised Signatory

Williams" formula with C-100. Necessary provision for laying C.I./D.I. pipes only conforming to relevant IS standards along with valves and specials has been made in this Estimate.

7. **Rising Main**

Rising mains from HUDA water main on sector road to water works have also been designed and provision for C.I. (class LA)/DI KA pipe line has been made in this estimate

8. **Sewerage**

This colony has a terrain which is mainly flat with a gentle slopes with one side dropped by avg. 2 meter. Sewerage network has been proposed to slope towards the South providing for self cleaning velocities without any deep excavation. It would thus be possible to connect the internal sewers in the plans with HUDA main sewer proposed on the development plan road in close proximity of the last manhole without any pumping being involved. At Gurgaon normally it is possible to get 2.0 ft. / sec velocity.

The internal sewer lines have also been designed for three times average D.W.F in relation to water supply demand. It has been assumed that about 75 % of the domestic water supply shall find its way into the proposed sewer. All the SW / RCC pipes, sewer has been designed to run half/full/three fourth full.

Necessary design statement for entire internal sewerage system has been prepared and attached with estimate.

Necessary provision for laying SW/~~RCC~~ pipes sewer lines and manholes etc. has been made in this estimate.

9. **Storm water drainage**

It has been proposed to lay underground RCC pipe drains on the road widths 40 ft. and above where it is possible to lay underground drains. The intensity of rain fall has been taken as ¼ the inch per hour. The internal storm water drains will be jointed into external storm water drainage to be laid by HUDA on sector dividing roads. Necessary provision for kerbs and channels has been made in the estimate. The estimate for these closed drains has been included as sub work No. III A minimum size of 400 mm RCC storm water line will be provided.

10. **Specifications**

The work will be carried out in accordance with the standard specifications of P.H. as laid down by the Haryana Government.

11. **Rates**

The estimate has been based on the present market rates and probable escalation in prices.

12. **Cost**

The total cost of the Scheme including cost of all services works out to Rs. ~~572.22~~ ^{821.32} Lakhs including 3% contingencies and 14% departmental charges, price, escalation unfrozen. Admin. Charges.

ANURAAG CHOWFLA

Partner

Mani Chowfla

CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

For Pioneer Urban Land & Infrastructure Limited

Authorised Signatory

I. DESIGN CALCULATION :

S. N.	Daily requirement	Area in Sqmtr <i>Total nos. of units.</i>	Height of the building	Population	Service Population	Water Requirement Per Person	Total Water requirement (in Ltr)	
					46x2			
1	TOWER A	54	91.7	270	92	172.5	58995	
2	TOWER B	42	72.5	210		172.5	36225	
3	TOWER C	40	84.5	200		172.5	34500	
4	TOWER D	40	72.5	200		172.5	34500	
5	TOWER E	52	91.7	260		172.5	44850	
6	EMS			420		435	16200	
		NS.					16,000	
	TOTAL	PS					225270	LPD 50000 Ltrs.
	ADD 10% MISG.	shops			25,000		22527	LPD 270070 Ltrs
	GRAND TOTAL				1000		247797	LPD
	SAY (GUM/DAY)	Total			211270		250	270
	Add 10%						26127	LPD
	Grand Total						287337	LPD
							300	
	Horticulture Water Requirement							
	7.44 Acres @ 15000 l/acre						150420	KL
	6.00 25,000							

met with treated effluent

I. Total Water Demand in m³/day

- (a) For Domestic Purpose - Part 1
Say

300 250 m³/day
300 250 m³/day
105 KL

$$\text{fire demand} = 100 \times \sqrt{P} \quad 100 \times \sqrt{1.11}$$

II. TUBEWELLS

- (a) Yield
(b) Working Hours per Day
(c) Total water demand
(d) Number of Tubewells reqd.
(=Water Demand/Discharge/Hours working per day)
(e) Add 10% as standby

Total
Say

20-15 KL/hr
Hours per Day
12

420 300 250 m³/day (excluding fire)

1.75 1.67 1.53
0.17 0.14 0.14
1.92 1.87 1.53
2.00 Nos.

Water to the proposed development is to be supplied by HUDA and it is proposed to install the tube-wells for augmentation/standby purposes.

III. PUMPING MACHINERY FOR TUBEWELLS

- (a) Gross Working Head
(b) Average fall in S.L.
(c) Depression Head
(d) Friction loss in main

Total

80 50 Meters
2 Meters
6 Meters
10 Meters
98 50 Meters

of Greater Urban Land & Infrastructure Limited

Authorised Signatory

AMURKAS CHOWLA
Partner
Mani Chowla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

(e) Discharge 12.0988 20000 LPH
 (e) Horse Power 8.3331 HP
 $HP = (22,000 \times 6.8 \times 1) / (60 \times 60 \times 75 \times 0.6)$
 20000×98
 Say 12.09 40.00 HP

IV. UNDER GROUND & OVERHEAD WATER TANKS

(a) Total water demand (Daily for Domestic purposes) 420X70% 294 m³/day
 (b) Proposed underground tanks for domestic use. (One day Storage) 294 m³
 (c) Proposed OverHead tanks for domestic use. (Half day Storage) 150 125 m³
 (d) Minimum Separate Static Storage for fire fighting purpose provided. 200 m³

But it is proposed to Construct an U.U.T of 300KL for raw water 200 m³
 300 KL for domestic use or 200KL for fire fighting purposes i.e. Total = 800KL
 V. BOOSTING MACHINERY (Water Supply Pumps)

(a) Daily Domestic Water Demand 420X70% 294 m³/day
 (b) Discharge per hour @ 12 hr. pumping / day 24.50 20.83 m³/Hour
 Say 4.08 947.2 LPM
 (c) No. of Working pump 4.08 1.0
 (d) Proposed Pump discharge (Working) 410 947.22 LPM (Each Pump)
 Gross Working Head 0 Meters
 (d) Suction lift - positive suction 25 Meters
 (e) Frictional Loss in Mains & Specials 125 100 Meters
 (f) Max Clear Head required 150 125 Meters
 Total 271.03 17.09 HP
 (g) H.P. of each pump required 40.00 HP
 $(400 \times 175) / (60 \times 75 \times 0.65)$
 410X150 Say

It is proposed to provide 2 Nos. of pumps (1 working + 1 standby) of 18 HP Each

(*) for Flushing Pump Pl. see opposite. 25

VII. GENERATING SETS: 2X12.50 1X25

HP of Tubewell pump
 HP of Domestic Pump 30
 HP of Jockey Pump Total
 in KVA
 HP of Flushing Pump Say 1X10

Add for lighting

25 30.00
 25 54.00
 30 84
 10 60.07
 90 65 KVA
 100X0.746 X1.502 111.90
 Say 120 KL

ANURAAG CHOWFLA
 Partner
 Mani Chowfla
 CA Registration No. 79/5125

M.K. Gupta
 MIE No. 045780/3
 MKG Consultants
 A-8, Paryavaran Complex
 IGNOU Road
 New Delhi-110 030

FINAL ABSTRACT OF COST

		Amount in Rs. Lacs
SUB WORK NO. I	WATER SUPPLY SCHEME	435.49
SUB WORK NO. II	SEWERAGE SCHEME	64.07
SUB WORK NO. III	STORM WATER DRAINAGE	47.96
SUB WORK NO. IV	ROADS & FOOT PATHS	453.62
SUB WORK NO. V	STREET LIGHTING	9.45
SUB WORK NO. VI	HORTICULTURE	9.97
SUB WORK NO. VII	MTC CHARGES INCL RESURFACING OF ROADS AFTER 1st 5 YEARS AND 2nd YEAR	151.67
	TOTAL	572.22

~~178.30~~ 148.85 lacs

~~144.10~~ 60.05 lacs

~~75.20~~ 77.18 lacs

~~196.50~~ 199.70 210.25 lacs

~~72.60~~ 15.81

~~14.80~~ 17.60

~~208.60~~ 220.61
247.54 lacs

~~799.56~~ 821.32 lacs
777.28 lacs

(Rupees Five Hundred Seventy Two Lacs and Twenty Two Thousand Only)

(~~Seven Hundred Ninety nine lacs and sixty thousand only~~
~~Eight Hundred Twenty one lacs and thirty two thousand only~~)

UDDA Limited Urban Land & Infrastructure Limited

~~777.30~~ lacs 75.46 lacs
~~821.32~~ 79.34
799.60 = 87.39 lacs
8.21 Per Acres.
10.30

AUTHORISED SIGNATORY

[Signature]
Authorised Signatory

[Signature]
Executive Engineer
HUDA Division No. 1
Gurgaon

Checked subject to comments
in forwarding letter No. 9338
Dt. 24.11.11 and notes attached
with the estimate

[Signature]
Superintending Engineer
HUDA Circle-II, Gurgaon

[Signature]
Director General
Town & Country Planning,
Haryana, Chandigarh

[Signature]
Executive Engineer (W)
for Chief Engineer
HUDA Panchkula

[Signature]
M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

SUB WORK No. 1 (Abstract of Cost)

Water Supply & Fire Fighting

			32.84 lac	
1	Sub Head No. 01	Head Works	RS. 2,001,500	36,94,000/-
			22.00 lac	
2	Sub Head No. 02	Pumping Machinery	RS. 2,670,000	29,50,000/-
			6.05 lac	
3	Sub Head No. 03	Rising Main	RS. 4,411,000	14,18,000/-
			14.49 lac	
4	Sub Head No. 04	Distribution System	864,000	2,71,000/-
			16.57 lac	
5	Sub Head No. 05	External Fire Hydrant	400,000	20,75,000/-
			5.05 lac	
6	Sub Head No. 06	Irrigation	491,620.00	6,07,500/-
			97.00 lac	
		TOTAL	RS. 8,828,120	116,15,500/-
		Add 3% contingencies & PH Charges	RS. 264,843.00	3,48,465/-
			2.91 lac	
		TOTAL	RS. 9,092,964	119,63,965/-
		Add 49% Departmental charges + Price escalation	RS. 4,455,552.16	58,62,343/-
			99.90 lac	
			148.95 lac	
		TOTAL	RS. 13,548,516	178,26,308/-
		Say in lacs	135.49	Say Rs. 178.30 lacs.

Rs. 148.85 lacs.

For Pioneer Urban Land & Infrastructure Limited



Authorised Signatory

ANURAAG CHOWFLA



Partner
Mani Chowfla
CA Registration No. 7915125



M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

Sub Work No. 1
Sub Head No. 01

Water Supply & Fire Fighting
Head Works

Amount in Rs.

1. Boring and installing tubewell with reverse rotary rig
Complete with pipe and strainer to a depth of about 120 metre in all respect
2 Nos. @ Rs. 500,000/- each. RS.1,000,000
2. Provision for rising mains, connecting tubewells with water main and Bye-pass arrangements.
 - a) 100 mm dia - 120m @ Rs. 950/- 1200/- RS.144,000 1,44,000/-
 - b) 150 mm dia - 100m @ Rs. 1350/- 1500/- RS.135,000 1,50,000/-
3. Providing Tubewell Submersible Pumps : 2,00,000/-
Capacity 20000 lph at 28 M head , 2 Nos. @ Rs. 165,000/-each RS.330,000 4,00,000/-
4. Provision for carriage for materials and other foreseen items L.S. RS.100,000 3.00
5. Construction of U.G. tanks 325 KL @ Rs. 2500/KL RS.812,500 15,00,000/-
(125 Domestic + 200 Fire)
(300 + 300 Sale + 200 Fire) 24.00 lacs
6. Provision for construction of Tubewell chambers of Size 1.5x1.5x1.5 m for Housing tubewell - 2Nos @ Rs. 125000/- RS.250,000 1.50 lacs
7. Provision for unforeseen items/carriage of material RS.250,000 0.50
- TOTAL RS.2,991,500 36,74,000/-
- (C/O To Abstract of Cost for Subwork No.1) 32.84 lacs

Sub Work No. 1
Sub Head No. 02

Water Supply & Fire Fighting
Pumping Machinery

Amount in Rs.

1. Providing and installing electricity driven pumping Set capable of delivering about 400 LPM of water against a total Head of 125 M complete with motor and other accessories (25 HP)
1 Set (1w+1 sby) (For domestic water) RS.1,500,000 4.00 lacs
 2. Provision for diesel engine genset each for standby arrangements For Pumps complete with gear head arrangements of following capacities.
1 No. 68 KVA @ Rs.120,000/- Each (L.S.) RS.120,000 12.00
2 nos e Rs. 2.00 lacs each 1,50,000/-
 3. Provision for making foundations and erection of Pumping Machinery:
- Lump Sum RS.300,000 1.00
 - 3 (a) Provision and installing Elect. driven pumping set capable of delivering about 175 lpm of water against a total Head of 150m Complete in all respect (10HP)
(1w+1 standby)
2 nos. e Rs. 1.00 lacs each 2.00 lacs
- ANURAAG CHOWFLA
Partner
Mani Chowfla
CA Registration No. 79/5125
- M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030
- Authorised Signatory

4. Provision for pipes, valves and specials inside boosting chamber.

- Lump Sum

1.00
RS.300,000 ✓

5. Provision for electric service connection including electrical Fittings for tube-well and boosting chamber etc. including cost

- Lump Sum of transformer

RS.300,000 5,00,000/-
1.50

6. Provision for carriage of material and other unforeseen items etc. L/S

RS.150,000 2,00,000/-
0.50

TOTAL

(C/O To Abstract of Cost for Subwork No.1)

RS.2,670,000 29,50,000/-
22.00

Sub-Work No. 1
Sub Head No. 03

Water Supply & Fire Fighting
Rising Main from HUDA

Amount in Rs.

1. Providing , laying , jointing and testing pipe lines including Cost of excavation etc. complete in all respects.

100 80 mm dia. G.I. pipe 320m @ Rs. 2500/Mtr. ✓ 1400/-
150 50 mm dia. G.I. pipe 60m @ Rs. 2000/Mtr. ✓ Part length future
40 mm dia. G.I. pipe 40m @ Rs. 1800/Mtr. ✓ Connection.
RS.800,000 ✓
RS.120,000 ✓
RS.72,000 ✓

2. Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respects.

150 40 mm i/d 1 No. @ Rs. 6000/- ✓ 15000/- 14000/-

14000/-
RS.6000 15,000/-

3. Providing and fixing indicating plates for sluice valve and air Valves. - 1 No. @ Rs. 8000/- each

RS.8,000 1,000/-

4. Providing and fixing air release valve and scour valve 1 Nos. @ Rs. 5000/- each

RS.5,000 7500/-
10,000/- 7500/-

5. Provision for carriage for materials and other unforeseen items((Lump) RS.50,000 ✓

RS.50,000 25000/-

6. Making Water Supply Connection

RS.250,000 2,50,000/-
50000/-

C. O. 54550/- Contd...

For Pioneer Urban Land & Infrastructure Limited

Authorised Signatory

ANURAAG CHOWFLA

Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

7. Provision for cutting of roads and making good to its original Conditions.

Rs. 554,500
50,000
RS. 100,000/-

TOTAL

RS. 1,411,000

604,500/-
14,18,000/-

(C/O To Abstract of Cost for Subwork No.1)

Total Water requirement	250.000 600.00	cum/day
hours of Pumping	16.000 ✓	hours
Q- Flow	15.625 39.500	m3/Hr
	0.004 0.010	m3/sec
L- Length of Pipe	365.000 320.00	m
Dia of Pipe	40.000 100.00	mm
	0.040 0.100	m
A	0.001 0.008	m2
V	3.454 1.250	m/s
f (constant)	0.040	
Friction Losses (Hf)	224.827 10.200	m
Fittings, Bends & Other Losses @ 25%	66.402 2.550	m
Total, Say	270.000 12.750	m

Sub Work No. 1
Sub-Head No. 04

Say - 15.000 Water Supply & Fire Fighting
Distribution System for dam and flushing

Amount in Rs.

1. Providing, Laying, jointing and testing G.I pipe line including Fittings, valves, cost of excavation etc. complete in all respect.

C3/DI

G.I Pipe 25 mm, 95 M @ Rs.300/- per meter ✓
G.I Pipe 32 mm, 125 M @ Rs.400/- per meter ✓
G.I Pipe 40 mm, 110 M @ Rs.600/- per meter ✓
G.I Pipe 50 mm, 240 M @ Rs.750/- per meter ✓
G.I Pipe 65 mm, 160 M @ Rs.900/- per meter ✓
G.I Pipe 80 mm, 45 M @ Rs.1200/- per meter ✓
G.I Pipe 100 mm, 20 M @ Rs.1400/- per meter ✓

RS.28,500 ✓
RS.50,000 ✓
RS.66,000 ✓
RS.157,500 ✓
RS.144,000 ✓
RS.54,000 ✓
RS.28,000 ✓

13.05 lay

2. Provision for carriage of materials and other unforeseen items (Lump RS.200,000/-)

50,000/-

3. Providing and fixing valves including chamber:-

- 80 mm dia 2 No. @ Rs. 8000/- each 4500/- 10,000/-
- 100 mm dia 2 No. @ Rs. 10000/- each 12,000/-

RS.16,000 10,000/- 20,000
RS.20,000 20,000/-

4. Provision for air valve (LS)

RS.100,000 ✓
RS.864,000

8,71,000/-
50,000/-

Total

(C/O To Abstract of Cost for Subwork No.1)

S. Prov. for cutting of road and making good to its original Conditions. (L.S.)
For Pioneer Urban Land & Infrastructure Limited

14.49

Authorised Signatory

ANURAAG CHOWFLA

Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

Fire fighting

Sub Work No. 1
Sub-Head No. 05

External Fire Hydrant

Amount in Rs.

1. Providing , Laying , jointing and testing M.S. pipes lines for fire rising main including cost of fittings, valves, connection etc. complete in all respect .

(i) 150mm i/d 925 m @ Rs. 1500/ m ✓

RS.1,387,500 ✓

(ii) 80mm i/d 250 m @ Rs. 300/m ^{450/-}
_{625/-}

RS.75,000 ^{2,37,500/-}
_{150,000/-}

2. Providing and fixing fire Hydrant 25 Nos. ' @ Rs. 2000/- 10,000/- Each ^{5 Nos. @ 15000/-}
_{14000/-}

70,000/-

3. ~~P/F of Valve 150mm i/d~~

RS.200,000 ^{2,50,000/-}
_{50,000/-}

3. Providing for carriage of material (L.S.)

RS.100,000 ✓
_{25,000/-}

4. Providing for indication Plates 25Nos. ' @ Rs. 1000/-

RS.25,000 ✓

Total

RS.400,000 ^{20,75,000/-}
_{16.57 Lacs}

(C/O To Abstract of Cost for Subwork No.1)

Sub-work No. I
Sub-Head No. 06

Water Supply & Fire Fighting. Irrigation

Amount in Rs.

1. Providing , Laying, Jointing and testing pipe line Confirming to IS 4985 (uPVC) including cost of excavation etc. complete in all respect.

a) 25 mm dia 100 metre @ Rs. 250/- M

RS.25,000 ✓

b) 32 mm dia 205 metre @ Rs. 300/- M ^{350/-}

RS.61,500 ^{71,750/-}

c) 40 mm dia 275 metre @ Rs. 400/- M ^{450/-}

RS.140,000 ^{1,23,750/-}

d) 50 mm dia 180 metre @ Rs. 500/- M ^{550/-}

RS.90,000 ^{99,000/-}

e) 80 mm dia 80 metre @ Rs. 900/- M ^{600/-}

RS.72,000 ✓ ^{48,600/-}

f) 100 mm dia 15 metre @ Rs. 1200/- M ^{950/-}

RS.18,000 ✓
_{142.50}

2. Providing and fixing 25 mm dia. irrigation hydrant Valve complete in all respect. ~~25 Nos. @ Rs. 3500/- Each~~

^{28 Nos. @ Rs. 3500/- Each}

RS.10,125 ^{98,000/-}

3. Provision for carriage of Material and other as foreseen items

RS.100,000 ^{25,000/-}

TOTAL

RS.494,020 ^{504,750/-}
_{6,04,500/-}

(C/O To Abstract of Cost for Subwork No.1)

Authorised Signatory

ANURAAG CHOWFLA

Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

Sub-Work No. II

SEWERAGE SCHEME

Amount in Rs.

1. Providing , jointing , cutting and testing SW pipe class "A" and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc. complete			
a) SW pipe 200 mm i/d avg. depth 0-2 M			
1020 M @ Rs. 1250/M <i>1500/- P/mtr.</i>	RS. 4,275,000	<i>1112.500/-</i>	<i>15,30,000/-</i>
<i>890</i> <i>1250/-</i>	RS. 200,000	<i>50000/-</i>	
2. Provision for cartage of material (L.S.)	RS. 200,000	<i>1.00</i>	
3. Provision for lighting and watching (L.S.)	RS. 200,000	<i>1.00</i>	
4. Provision for making HUDA Connection (L.S.)	RS. 500,000	<i>1.00</i>	
5. Provision for Temp Disposal	RS. 2,000,000	<i>2500000/-</i>	
<i>STP 240KLD for 0-24 MLD</i>	RS. 4,175,000	<i>50000/-</i>	<i>39.13 Lac</i>
6. <i>Pro for effluent & roads and making gurd</i>	RS. 425,250	<i>44,30,000/-</i>	<i>1.17 Lac</i>
Add 3% contingencies & PH charges <i>to item in original conditions.</i>	RS. 4,300,250	<i>2,22,500/-</i>	
Total	RS. 2,107,123	<i>76,52,900/-</i>	<i>40.30 Lac</i>
Add 49% Price Escalation, Departmental charges, unforeseen Admin Charges.	RS. 6,407,373	<i>37,49,921/-</i>	<i>19.75 Lac</i>
TOTAL		<i>114,02,821</i>	<i>60.05 Lac</i>
Say in lacs	<i>64.07</i>		
(Cost to Final abstract of cost)		<i>Say Rs. Hq. to Lac</i>	

For Pioneer Urban Land & Infrastructure Limited

[Signature]
 Authorised Signatory

ANURAAG CHOWFLA
[Signature]
 Partner
 Mani Chowfla
 CA Registration No. 7915125

[Signature]
 M.K. Gupta
 MIE No. 045780/3
 MKG Consultants
 A-8, Paryavaran Complex
 IGNOU Road
 New Delhi-110 030

Sub-Work No. III

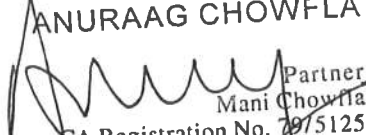
STORM WATER SCHEME

Amount in Rs.

1. Providing and laying R.C.C. pipe drain class NP-3 With cement joint, manholes excavation etc complete in all respect.		980000/-
a) 400 mm dia. ⁵⁶⁰ 1140m @ Rs. ^{1250/m} 1750/-m.	RS. 4,425,000	19,95,000/-
2. Provision for Road gullies L.S	RS. 250,000	10,00,000/-
3. Providing Rain Harvesting arrangements ⁵ 7 Nos @ Rs 100,000 ^{1,50,000/-}	RS. 700,000	10,50,000/-
4. Provision for Shoring & Timbering (L.S.)	RS. 250,000	^{1.00} 7.50 lay
5. Provision for Lighting, Watching & Temp. Drain Arrangements (L.S.)	RS. 250,000	
6. Provision for Carriage of Material (L.S.)	RS. 250,000	^{1.00} 1,00,000/- 25.00 lay
7. Prov. for Connection with Huda line	RS. 3,125,000	48,99,000/- 50.30 lay
8. Prov. for temporary arrangement - HUDA	RS. 93,750	1,40,850/- 1.50 lay
Add 3% for contingencies and PH charges	RS. 3,218,750	50,41,850/-
Total	RS. 1,577,188	24,70,504/- 51.80 lay
Add 49% Departmental charges	RS. 4,795,938	75,12,357 25.28 lay
TOTAL (Cost to Final abstract of cost)		47.90 77.18 lay
Say in lacs		Say Rs. 75.20 lacs

For Pioneer Urban Land & Infrastructure Limited


Authorised Signatory

ANURAAG CHOWFLA

Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

Sub-Work No. IV

Road Work

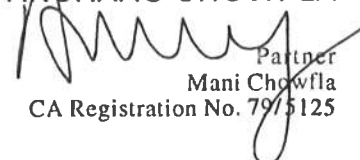
ROAD AREA As Per Drawing Attached				
ROAD NO.		LENGTH	BREADTH	AREA
ROAD AREA				
AREA CALCULATIONS FOR ROADS				
	A (M)	B (M)	Nos.	AREA (SqM) = Z = A X B
A	67.500	6.000	1.000	405.000
B	$1/2(3.75+7.5) \times 3.75$		1.000	21.090
C	63.750	6.000	1.000	382.500
D	30.000	6.000	1.000	180.000
E	11.250	6.000	1.000	67.500
F	$1/2 \times 4.5 \times 4.5$		1.000	10.125
G	11.250	6.000	1.000	67.500
H	37.500	6.000	1.000	225.000
I	51.120	6.000	1.000	306.720
J	38.350	6.000	1.000	230.310
K	$1/2(7.5+13.125) \times 13.5$		1.000	139.220
L	11.250	6.000	1.000	135.000
M	3.750	6.000	1.000	14.060
N	$1/2(9.375+6) \times 4.5$		1.000	34.590
O	9.375	6.000	1.000	56.250
P	$1/2(13.125+7.5) \times 6$		1.000	61.875
Q	38.734	6.000	1.000	232.404
R	$1/2(11.25+16.875) \times 4.5$		1.000	63.280
S	$1/2(7.5+15) \times 3.75$		1.000	42.190
T	7.500	6.000	1.000	45.000
U	$1/2(7.5+3.75) \times 6$		1.000	33.750
V	$1/2(9.375+5.625) \times 6$		1.000	45.000
W	11.250	6.000	1.000	67.500
X	$1/2(11.25+5.625) \times 6$		1.000	50.625
Y	$1/2(9.375+6) \times 6$		1.000	46.125
Z	60.000	6.000	1.000	360.000
A'	$1/2(9.375+3.75) \times 5.25$		1.000	34.450
B'	$2 \times 1/2 \times 11.25 \times 6$		2.000	67.500
C'	18.750	6.000	1.000	112.500
D'	$1/2(13.5+9.375) \times 3$		1.000	34.310
E'	$1/2(15+9.375) \times 5.625$		1.000	68.550
F'	30.000	6.000	1.000	180.000
G'	39.375	6.000	1.000	236.250
H'	15.000	9.375	1.000	140.625
I'	28.125	6.000	1.000	168.750
J'	39.375	6.000	1.000	236.250
K'	$1/2(9.375+4.5) \times 6$		1.000	41.625
L'	5.625	6.000	1.000	33.750
M'	51.811	6.000	1.000	310.866
N'	13.500	7.500	1.000	101.250
O'	35.625	6.000	1.000	213.750
P'	$1/2(7.5+5.625) \times 3.75$		1.000	24.610
Q'	15.000	6.000	1.000	90.000

For Pioneer Urban Land & Infrastructure Limited



~Authorised Signatory

ANURAAG CHOWFLA


Partner
Mani Chowfla

CA Registration No. 79/5125



M. R. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

5417-65

R'	1/2(7.5+3.75)X6	1.000	33.750
S'	37.500 6.000	1.000	225.000
T'	1/2(11.25+13.5)X3.75	1.000	46.400
U'	1/2(15+7.5)X5.25	1.000	59.060
V'	225 - 130.00 X 6.00 (N.M wide Service road)		445.000
V''	15.50		
TOTAL			6496.860
SUBTRACTION			
1.000	0.000	0.000	0.000
TOTAL			0.000
TOTAL ROAD AREA	Add fire tender path 6.00mm wide 470x6.00		6496.860
TOTAL AREA (SQM)			6496.860
PARKING AREA			
	A (M)	B (M)	Nos.
			AREA (SqM) =
			Z = A X B
ADDITION			
1	11.250	5.625	47-19
			4075.781
			0
TOTAL			4075.781

TOTAL PARKING AREA			4075.781
TOTAL PARKING AREA (SQM)			1088.00
TOTAL AREA (SQM)			7276.86
ADD 10% FOR CURVES AND JUNCTIONS (SQM)			727.086
			8004.55
SAY (SQM)			8004.55

Amount in Rs.

NOTE: Rates as per HUDA norms

- Provision for levelling & earth filling as per site conditions.

As per cut & fill plan

10.22 (2.21 Acre @ Rs 1.00 Lacs per Acre)

- Soling coat 100 mm thick (63-45) mm gauge compacted to 75 mm thick WBM conforming to MOT specification (Table 400-6, Grading No. 2).
 - Wearing coat (Top coat) 100mm thick (53-22.4)mm gauge compacted to 75mm thick conforming to MOT specifications (Table 400-6, Grading No. 3) over 50 mm thick B.M. and 20 mm thick M.S.S. Type A

7550 Sq. m. @ Rs. 850 / - per Sq. m.

- Provision for kerbs & channels of CC 1:2 @ Rs. 500 / - per Meter

- Provision for making approach and pavement to building (L.S.)

- Provision for parking arrangement 1080 Sqmtr L.S.

- Lump sum

For Pioneer Urban Land & Infrastructure Limited

Authorised Signatory

ANURAAG CHOWFLA
Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

6. Provision for carriage of material (L.S)

TOTAL

Add 3% contingency & P.E. charges

TOTAL

Add 49% depts. Charges, price escalation
unforeseen, Admin. charges.

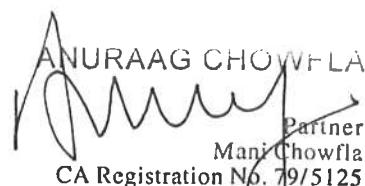
Say (Rs. In Lacs)

(Cost to Final abstract of cost)

Rs. 137.00 Lacs		100000 ✓
4.11 Lacs	130,08,000/- 3,90,240/-	Rs. 10,009,500
Rs. 141.11 Lacs	133,98,240/-	Rs. 300,285.00
Rs. 69.14 Lacs	65,65,138/-	Rs. 10,309,785.00
Rs. 210.25 Lacs	199,63,278/-	Rs. 5,051,794.65
Say in lacs	199.70	Rs. 45,361,580
		453.62

For Pioneer Urban Land & Infrastructure Limited


Authorised Signatory

ANURAAG CHOWFLA

Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi- 110 030

Sub Work No. V

Street Lighting

Amount in Rs.

1) Providing lighting at surrounding Area as per standard specifications of

Total light poles = 8.21 @ Rs. 75000/- per Acre

10.30 Ac 1,00,000/-

Add 3% contingencies & P.E. charges

TOTAL

Add 49% Departmental charges, price escalation

unforeseen, Admin. charges

TOTAL

Say (Rs. In Lacs)

(Cost to Final abstract of cost)

10,30,000/-

30,900/-

10,60,900/-

5,19,841/-

15,80,741/-

Say 15.81 lac

Rs. 615,750

Rs. 18,473

Rs. 634,223

Rs. 310,709

Rs. 944,992

Rs. 9.45-

Say Rs. 9.45 lac

Sub Work No. VI

Plantation & Road Side trees

Amount in Rs.

1. Development of Lawn Areas:

a) Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of

b) Rough dressing of turfed area.

c) Grassing with "DOOB GRASS" i/c watering and maintenance of lawns for 30 days till

8.21 Acre @ Rs. 75000/- Acre

10.30 Ac 1,00,000/-

10,30,000/-

615750.00

Contd. Page - II

For Pioneer Urban Land & Infrastructure Limited



Authorised Signatory

ANURAAG CHOWFLA

Partner
Mani Chowfla

CA Registration No. 79/1125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

2. Providing and planting trees along boundary @ 12 m interval
Total Road length 900 M x 2 = 1800 M.
25' 150

75

Cost Details:

Excavation	25	30
Manure	25	30 60
Tree Plant	50	80 60
Tree Guard	350	600
TOTAL	450	740 750

75 Nos. @ Rs. 450 740 750
150

TOTAL
Add 3% contingencies & P.E. charges
TOTAL

Add 49% Departmental charges

TOTAL
Say (Rs. In Lacs)
(Cost to Final abstract of cost)

11,41,000/-
Rs. 11.43 lacs 34,230/-
Rs. 0.34 lacs 11,75,230/-
Rs. 11.77 lacs 5,75,863/-
Rs. 5.76 lacs 17,51,093/-
Rs. 17.53 lacs say Rs. 17.60 lacs
Say Rs. 17.60 lacs

Rs. 23,750 1,11,000/-

Rs. 649,500 9,32,000/-
Rs. 10,485 27,960/-
Rs. 668,985 9,59,960/-
Rs. 327,803 4,70,380/-
Rs. 996,788 14,20,340/-
Rs. 9.97 say Rs. 14.30 lacs

SUB WORK - VII - SERVICES & RESURFACING OF ROADS

1. Provision of MTC charges for W/s, SWD

(a) Complete in all aspect, including operational and establishment charges as per HUDA
10.30 Acres @ Rs. 3.75 lacs per Acre.

2. Provision of resurfacing of roads after 5 years of MTC one layer of 100 mm thick WBM
(a) Resurfacing of road after 10 years of MTC 11680 Sqm @ 600/- P/Sqm.

Add 3% contingencies & P.E. charges

Add 49% Departmental charges

TOTAL
Say (Rs. In Lacs)
(Cost to Final abstract of cost)

11680 Sqm @ 300/- P/Sqm
12200 TOTAL
143,74,500/-
Rs. 161.30 lacs 4,31,235/-
Rs. 166.14 lacs 148,05,735/-
Rs. 81.40 lacs 72,54,810/-
Rs. 247.54 lacs 220,60,545/-
Say Rs. 220.61 lacs

Amount in Rs.

38,62,500/- 51.50
3,078,750 73.20
Rs. 4,536,000 70,08,000/-
Rs. 2,268,000 35,04,000/-
Rs. 9,882,750 1,35,16,000/-
Rs. 296,483 0,07,123/-
Rs. 10,179,233 1,39,88,423/-
Rs. 4,987,824 68,59,232/-
Rs. 15,167,056 2,08,57,724/-
151.67
Say Rs. 208.60 lacs

For Pioneer Urban Land & Infrastructure Limited

Authorised Signatory

ANURAAG CHOWFLA
Partner
Mani Chowfla
CA Registration No. 79/5125

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

ANNEXURE-1

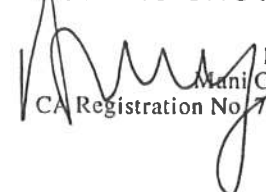
S.No	SEWER LINE	Tower No.	Total Population	Total Water Requirement	Sewage Discharge (LPD)			Average Sewage Discharge		Size of Pipe	Velocity	Design Discharge	Length of Line	Slope	Fall in Metres		Ground level		Invert Level		Depth of Pipe at		Average depth of pipe
					Self	Branch	Total	LPS	Cusec						As per gradient	As per pipe slope	Start	End	Start	End	Start	End	
				LPD						mm	feet/sec	cusec	Meters		In mtrs.	In mtrs.	In mtrs.	In mtrs.	In mtrs.	In mtrs.	In mtrs.	In mtrs.	In mtrs.
1	1-2	B	210	36225	28 980		28 980	0.335417	1.006	0.035	200	2.42	45	200	0.000	0.225	243.00	243.00	242.00	241.78	1.00	1.22	1.11
2	2-3	D	200	34500	27 600	28 980	56 580	0.554861	1.965	0.069	200	2.42	84	200	0.000	0.420	243.00	243.00	241.78	241.36	1.22	1.64	1.43
3	3-6			0		56 580	56 580	0.554861	1.965	0.069	200	2.42	40	200	0.000	0.200	243.00	243.00	241.36	241.16	1.64	1.84	1.74
4	4-5	EWS	120	20700	16 560		16 560	0.191667	0.575	0.02	200	2.42	130	200	0.000	0.650	243.00	243.00	242.00	241.35	1.00	1.65	1.33
5	5-6			0		16 560	16 560	0.191667	0.575	0.02	200	2.42	90	200	0.000	0.450	243.00	243.00	241.35	240.90	1.65	2.10	1.88
6	6-7	E	260	44850	35 880	1 09 020	1 44 900	1.677083	5.031	0.176	200	2.42	90	200	0.000	0.450	243.00	243.00	240.90	240.45	2.10	2.55	2.32
7	7-11			0		1 44 900	1 44 900	1.677083	5.031	0.176	200	2.42	13	200	0.000	0.065	243.00	243.00	240.45	240.39	2.55	2.61	2.58
8	8-9	A	316	54510	43 608		43 608	0.504722	1.514	0.053	200	2.42	64	200	0.000	0.320	243.00	243.00	242.00	241.68	1.00	1.32	1.16
9	9-10	C	200	34500	27 600	71 208	98 808	1.143611	3.431	0.12	200	2.42	94	200	0.000	0.470	243.00	243.00	241.68	241.21	1.32	1.79	1.55
10	10-11			0		98 808	98 808	1.143611	3.431	0.12	200	2.42	48	200	0.000	0.240	243.00	243.00	241.21	240.97	1.79	2.03	1.91
11	11-STP			0		2 43 708	2 43 708	2.820694	8.462	0.296	200	2.42	15	200	0.000	0.075	243.00	243.00	240.39	240.31	2.61	2.69	2.65
12	STP-12												20										
13	12-13												90										
14	13-14												140										
15	14-TO HUDA												50										

M.K. Gupta
 MIE No. 045780/3
 MKG Consultants
 A-8, Paryavaran Complex
 IGNOU Road
 New Delhi-110 030

For Pioneer Urban Land & Infrastructure Limited


 Authorised Signatory

ANURAAG CHOWFLA


 Partner
 CA Registration No. 79/5125

Material Statement -Sewerage System

Annexure 2

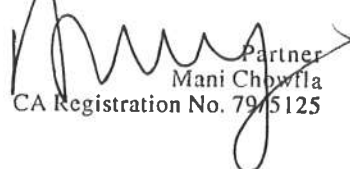
S.No	SEWER LINE	Size of Pipe	Length of Line
		mm	Meters
1	1-2	200	45
2	2-3	200	85
3	3-6	200	40
4	4-5	200	130 EWS line. —
5	5-6	200	90
6	6-7	200	90
7	7-11	200	15
8	8-9	200	65
9	9-10	200	95
10	10-11	200	50
11	11-STP	200	15
12	STP-12	200	20
13	12-13	200	90
14	13-14	200	140
15	14-TO HUDA	200	50
Total for 200 mm Dia			1020 890 mtrs.

For Pioneer Urban Land & Infrastructure Limited


 Authorised Signatory


 M.K. Gupta
 MIE No. 945780/3
 MKG Consultants
 A-8, Paryavaran Complex
 IGNOU Road
 New Delhi-110 030

ANURAAG CHOWFLA

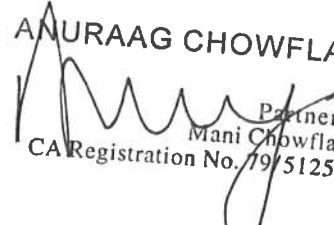

 Partner
 Mani Chowfla
 CA Registration No. 795125

S.No	Line No.	Self Area (m ²)	Self Area (Acre)	Branch Area (Acre)	Total Area (Acre)	Total Area (Hec)	Rain Fall mm/hr	Discharge @17.36 lps/Hec	Length in mtr.	Pipe dia in mm	Slope 1 in	Velocity m/sec.	Cap of pipe in lps.	Fall in line mtr.	Ground Level		Invert Level		Depth	
															Start	End	Start	End	Start	Average
1	1-RW1	5600	1.40	0.00	1.400	0.57	6.25	9.83	75	400	600	0.59	73.71	0.13	243.00	243.00	242.40	242.28	0.60	0.72
2	RW1-RW6	3800	0.95	1.40	2.350	0.95	6.25	16.51	100	400	600	0.59	73.71	0.17	243.00	243.00	242.28	242.11	0.72	0.81
3	RW6-RW5	4100	1.03	2.35	3.375	1.37	6.25	23.71	140	400	600	0.59	73.71	0.23	243.00	243.00	242.11	241.88	0.89	1.01
4	RW5- FINAL DISPOSAL	0	0.00	3.38	3.375	1.37	6.25	23.71	25	400	600	0.59	73.71	0.04	243.00	243.00	241.88	241.83		1.15
5	2-RW3	1100	0.28	0.00	0.275	0.11	6.25	1.93	20	400	600	0.59	73.71	0.03	243.00	243.00	242.40	242.37	0.60	0.63
6	RW3-RW4	2500	0.63	0.28	0.900	0.36	6.25	6.32	70	400	600	0.59	73.71	0.12	243.00	243.00	242.37	242.25	0.63	0.69
7	RW4-RW5	4200	1.05	0.90	1.950	0.79	6.25	13.70	130	400	600	0.59	73.71	0.22	243.00	243.00	242.25	242.03	0.75	0.86
8	3-RW2	1350	0.34	0.00	0.338	0.14	6.25	2.37	55	400	600	0.59	73.71	0.09	243.00	243.00	242.40	242.31	0.60	0.65
9	4-RW2	3000	0.75	0.00	0.750	0.30	6.25	5.27	35	400	600	0.59	73.71	0.06	243.00	243.00	242.40	242.34	0.60	0.63
10	RW2-RW7	3300	0.83	1.09	1.913	0.77	6.25	13.43	140	400	600	0.59	73.71	0.23	243.00	243.00	242.31	242.08	0.69	0.81
11	RW7-5	0	0.00	1.91	1.913	0.77	6.25	13.43	300	400	600	0.59	73.71	0.50	243.00	243.00	242.08	241.58	0.92	1.17
12	5-FINAL	0	0.00	1.91	1.913	0.77	6.25	13.43	50	400	600	0.59	73.71	0.08	243.00	243.00	241.58	241.49	1.42	1.47


M.K. Gupta
 MIE No. 045780/3
 MFG Consultants
 Paryavaran Complex
 100 Road
 New Delhi-110 030

For Pioneer Urban Land & Infrastructure Limited


 Authorised Signatory

ANURAAG CHOWFLA

 Partner
 Mani Chowfla
 CA Registration No. 79/5125

Material Statement -Drainage System**Annexure 4**

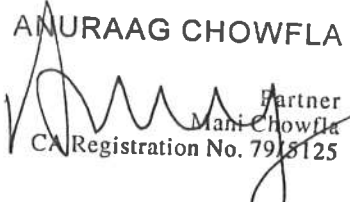
S.No	Line No.	Length in mtr.	Pipe dia in mm
1	1-RW1	75	400
2	RW1-RW6	100	400
3	RW6-RW5	140	400
4	RW5- FINAL DISPOSAL	25	400 500 dia
5	2-RW3	20	400
6	RW3-RW4	70	400
7	RW4-RW5	130	400
8	3-RW2	55	400
9	4-RW2	35	400
10	RW2-RW7	140	400
11	RW7-5	300	400
12	5-FINAL DISPOSAL	50	400
	Total for 400 mm dia	1140	
		560	


M.K. Gupta
 MIE No. 045780/3
 MKG Consultants
 A-8, Paryavaran Complex
 IGNOU Road
 New Delhi-110 030

for Pioneer Group Land & Infrastructure Limited


 Authorised Signatory

ANURAAG CHOWFLA


 Partner
 Anuraag Chowfla
 CA Registration No. 7918125

ANNEXURE-5

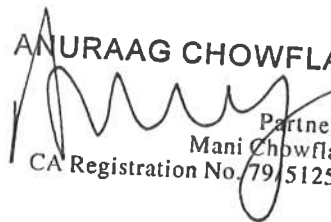
Design of Water Supply System - MAIN CWS RING TO BUILDING SHAFTS

S.No.	Line Designation	Water Requirements (in LPD)	Water Requirements (in KLD)	Self Water requirement (in KLD)	Branch Water requirement (in KLD)	Add 10% Misc.	Total Water Requirements (in KLD)	Discharge per Hour considering 8 Hours Pumping (klhr)	Size of Pipe Provided (mm)	Velocity in ft/sec.	Velocity in m/sec.	Head Loss per 1000m	Loss of head as per pipe length	Length of pipe (in metres)	Ground level		Hydraulic Level		Terminal Head	
															Start In m	End In m	Start In m	End In m	In m	In m
1	PHASE-1																			
2	1-UGT-1		0	0	217	22	238	29769	100	3.46	1.06	21	0.365	17	243.00	243.00	433.000	432.635	189.64	189.64
3	2-1-TOWER D	34500	36	36	0	71	71	8841	50	4.11	1.25	66	5.838	88	243.00	243.00	432.635	426.797	183.80	183.80
4	2-3		0	0	36	0	36	4328	40	3.14	0.96	52	0.521	10	243.00	243.00	426.276	426.276	183.28	183.28
5	3-TOWER B	36225	36	36	0	36	36	4328	40	3.29	1.00	57	0.570	10	243.00	243.00	422.398	422.398	179.40	179.40
6	1-7		0	0	146	0	146	18241	80	3.32	1.01	26	1.166	45	243.00	243.00	432.635	421.827	178.83	178.83
7	7-4		0	0	126	0	126	15741	65	4.33	1.32	54	2.687	50	243.00	243.00	431.479	428.792	185.79	185.79
8	4-TOWER E	44850	45	45	0	45	45	5606	40	4.08	1.24	85	0.847	10	243.00	243.00	428.792	427.945	184.95	184.95
9	4-5		0	0	81	0	81	10134	65	2.79	0.85	24	2.666	112	243.00	243.00	429.969	429.969	186.45	186.45
10	5-TOWER C	34500	35	35	0	35	35	4313	40	3.14	0.96	52	0.521	10	243.00	243.00	427.945	424.448	181.58	181.58
11	5-6		0	0	47	0	47	5822	50	2.71	0.83	31	3.369	110	243.00	243.00	424.576	424.270	181.27	181.27
12	6-TOWER A	48575	47	47	0	47	47	5822	50	2.71	0.83	31	3.369	110	243.00	243.00	431.479	424.436	181.44	181.44
13	7-8		0	0	20	0	20	2500	32	2.84	0.87	56	7.043	125	243.00	243.00	424.436	423.916	180.92	180.92
14	8-EWS	10000	10	10	0	10	10	1250	25	2.33	0.71	52	0.520	10	243.00	243.00	424.436	420.640	177.64	177.64
15	8-9		0	0	10	0	10	1250	25	2.33	0.71	52	0.520	10	243.00	243.00	424.436	420.640	177.64	177.64
16	9-EWS	10000	10	10	0	10	10	1250	25	2.33	0.71	52	0.520	10	243.00	243.00	420.640	420.120	177.12	177.12


M.K. Gupta
 MIE No. 045780/3
 MKG Consultants
 A-8, Paryavaran Complex
 IGNOU Road
 New Delhi-110 030

For Pioneer Urban Land & Infrastructure Limited


Authorised Signatory

ANURAAG CHOWFLA

 Partner
 Mani Chowfla
 CA Registration No. 79/5125

Material Statement- Water Supply

Annexure 6

S.No.	Line Designation	Size of Pipe Provided	Length of pipe(in metres)
		mm	
1	8-EWS	25 100	10
2	8-9	25 100	75
3	9-EWS	25 100	10
	Total for 25 mm dia		95
4	7-8	32 100	125
	Total for 32 mm dia		125
5	2-TOWER D	40 100	10
6	2-3	40 100	70
7	3-TOWER B	40 100	10
8	4-TOWER E	40 100	10
9	5-TOWER C	40 100	10
	Total for 40 mm dia		110
10	1-2	50 100	90
11	5-6	50 100	110
12	6- TOWER A	50 100	10
	Total for 50 mm dia		210
13	7-4	65 100	50
14	4-5	65 100	110
	Total for 65 mm dia		160
15	1-7	80 100	45
	Total for 80 mm dia		45
16	UGT-1	100	20
	Total for 100 mm dia		20
17	TUBE WELL 1 - TUBEWELL 2	100	120
18	TUBE WELL 2 - PUMP ROOM	150	100
	MUNICIPAL LINE		
1	1-2	80	320
2	2-FUTURE CONNECTION	50	60
3	2-PUMP ROOM	40	40

M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030

ANURAAG CHOWFLA
Partner
Mani Chowfla
CA Registration No. 79/5125

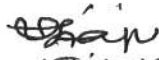
For Pioneer Urban Land & Infrastructure Limited

Authorised Signatory

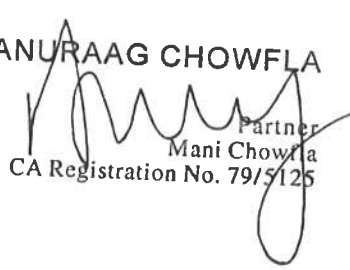
MATERIAL OF FIRE FIGHTING ANNEXTURE-7

S.no	Node NO		Dia of Pipe	Length
PHASE 1				
	Pump Room 1			
1	1	1	150	35
2	1	2	150	70
3	2	3	150	90
4	3	4	150	145
5	1	5	150	90
6	5	6	150	130
7	6	7	150	55
8	2	8	150	90
9	8	9	150	45
10	9	10	150	50
11	10	11	150	85
12	7	11	150	40
TOTAL				925

For Pioneer Urban Land & Infrastructure Limited


Authorised Signatory


M.K. Gupta
MIE No. 045780/3
MKG Consultants
A-8, Paryavaran Complex
IGNOU Road
New Delhi-110 030


ANURAAG CHOWFLA
Partner
Mani Chowfla
CA Registration No. 79/5125