

**SERVICE ESTIMATE, DESIGN REPORT AND
CALCULATIONS OF
INTERNAL DEVELOPMENT WORKS

FOR**

**APPROVAL OF REVISED BUILDING PLAN OF
COMMERCIAL COLONY MEASURING 4.418 ACRES
(LICENCE NO. 197 OF 2008 DATED 05-12-2008) IN SECTOR 66,
GURGAON MANESAR URBAN COMPLEX**

OWNER

**M/S R. C. SOOD & CO. C/O ADVANCE INDIA PROJECTS LIMITED,
THE MASTER PIECE, GOLF COURSE ROAD, SECTOR 54,
GURUGRAM - 122002, HARYANA, INDIA**



Abhishek Jain
B. Arch.
CA/2019/114661

For Advance India Projects Limited

Aswini F

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- **BUILDING PLAN OF COMMERCIAL COLONY MEASURING 4.418 ACRES (LICENCE NO. 197 OF 2008 DATED 05-12-2008) IN SECTOR 66, GURGAON MANESAR URBAN COMPLEX, BEING DEVELOPED BY M/S R. C. SOOD & CO. C/O ADVANCE INDIA PROJECTS LIMITED, THE MASTERPIECE, GOLF COURSE ROAD, SECTOR 54, GURUGRAM - 122002, HARYANA, INDIA**

REPORT

Gurgaon town of Haryana State is situated on Delhi - Jaipur national Highway No.8 at a distance of 30 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. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Government to establish various Commercial Colony sectors along with infrastructure facilities in Gurgaon. It is now proposed to develop a commercial building in approx 4.418 ACRES acre in sector 66 Gurugram .

WATER SUPPLY

At present the source of water supply in this area is HSVP/GMADA supply. It has been proposed to construct underground tanks of capacity as per attached details for domestic purpose. The underground tanks will be filled from the HSVP/GMADA water supply line and the water will be fed through gravity system directly to the fixture & user point from domestic and flushing O.H tank proposed on the roof of the building.

DESIGN

The scheme has been designed for population as given in attached sheets.

PUMPING EQUIPMENTS

It has been proposed to install pumping set as described with standby of equal capacity. The provision for standby generating set has been provided in case of any electricity failure. Power Backup will be provided separately or added to the capacity of main generator.

SEWERAGE SCHEME

This scheme is designed for sewer connecting to STP & over flow passing in HSVP/GMDA existing line on sector road. The sewerage system has been marked on the respective plans.

The sewer line has been designed for 3.0 times average D.W.F in relation to water supply demand. It has been assumed that about 80 % of the domestic water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft/sec self cleaning velocity. Necessary provision for laying S.W/RCC pipe sewer line.

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

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STORM WATER DRAINAGE

We proposed to lay underground pipe drains with required number of catch basins for disposal of storm water which will be connecting rain water harvesting system to recharge the aquifer and surplus storm water will be allowed to flow to the HSVP/GMDA drain along the sector road/service road. The intensity of rainfall has been taken as 50 mm/hr and storm water line will be designed as per Manning's formula.

SPECIFICATIONS

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

Roads :

Road with soling coat 100 mm thick complete to 75 mm thick and wear coat 100 mm thick to 75 mm thick and 25 mm thick pre-mix carpet with seal coat. Cost of road has been taken in the estimate.

200 mm GSB
250 mm stone aggregate
50 mm thick DBM
25 mm thick BC

Street Lighting

Provision for lighting on surrounding area has been made.

Horticulture

Estimates and details of plantation, landscaping, signage, etc., has been included.

Rates

The estimate has been based on the present market rates.

Cost:

The total cost of the scheme, including cost of all services works out to be ~~354.51~~ (Rupees Three Fifty Four Lakhs Fifty one Thousand only) including 3% contingencies @ 49% departmental charges. , price escalation, unforseen, Belmn.

For Advance India Projects Limited

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- BUILDING PLAN OF COMMERCIAL COLONY MEASURING 4.418 ACRES (LICENCE NO. 197 OF 2008 DATED 05-12-2008) IN SECTOR 66, GURGAON MANESAR URBAN COMPLEX, BEING DEVELOPED BY M/S R. C. SOOD & CO. C/O ADVANCE INDIA PROJECTS LIMITED, THE MASTERPIECE, GOLF COURSE ROAD, SECTOR 54, GURUGRAM - 122002, HARYANA, INDIA**

1. DESIGN CALCULATION: Approx. area of site 4.418 Acres

ANNEXURE - A

S. No.	Description	FAR Area	Population Basis	Population	LPCD	Total Water Requirement	Flushing Water Requirement	Domestic Water Requirement
	Daily Water Requirement	sqm.	sqm. / Person	Person.	ltrs. / person / day	ltrs. / person / day	ltrs. / person / day	ltrs. / person / day
1.0	OFFICE FLOOR DAILY WATER REQUIREMENT :							
1.1	Office Staff (3rd to 26th Floor)	43629.00	10	4370.00	45	1,96,650.00	87,400.00	1,09,250.00
1.2	Office Visitors (10%)	-	-	440.00	15	6,600.00	4,400.00	2,200.00
	TOTAL OFFICE AREA DAILY WATER REQUIREMENT	-	-	-	-	2,03,250.00	91,800.00	1,11,450.00
2.0	RETAIL & SHOP AREA WATER REQUIREMENT :							
2.1	Retail + Shops (Ground Floor)	5136.00	3.00	1715.00	-	-	-	-
2.2	Retail + Shops (First & Second Floor)	5370.00	6.00	900.00	-	-	-	-
2.3	Total Population	-	-	2615.00	-	-	-	-
2.4	Fixed Population (10% of Total Population)	-	-	265.00	45.00	11,925.00	5,300.00	6,625.00
	Floating Population (90% of Total Population)	-	-	2350.00	15.00	35,250.00	23,500.00	11,750.00
	TOTAL RETAIL & SHOPS AREA DAILY WATER REQUIREMENT	-	-	-	-	47,175.00	28,800.00	18,375.00
3.0	F & B AREA WATER REQUIREMENT :							
3.1	F & B (Second Floor + Third Floor)	3015.0	1.80	1680.00	-	-	-	-
3.3	Fixed Population (10% of Total Population)	-	-	170.00	45.00 70	11900 7,650.00	4165 3,400.00	7735 4,250.00
3.4	Floating Population (90% of Total Population)	-	-	1510.00	35.00 15	22850 52,850.00	7928 15,100.00	14722 37,750.00
	TOTAL F & B AREA DAILY WATER REQUIREMENT					60,500.00 34880	18,500.00 12093	42,000.00 23457

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4.0	KIOSK & FOOD COURT SEATING AREA WATER REQUIREMENT :							
4.1	Kiosk Seats 462 Seats Floating Population (Second Floor)	-	-	462.00	~~35.00~~ 15	~~16,170.00~~ 6930	~~4,620.00~~ 3080	~~14,550.00~~ 3850
4.2	Fixed Population (10%)	-	-	47.00	~~45.00~~ 70	~~2,115.00~~ 3290	~~940.00~~ 1462	~~1,175.00~~ 1828
	TOTAL KIOSK AREA DAILY WATER REQUIREMENT					~~18,285.00~~ 10220	~~5,560.00~~ 4542	~~12,725.00~~ 5678
5.0	GAMING ZONE WATER REQUIREMENT :							
5.1	Gaming Zone (Third Floor)	1775.00	1.40	1270.00	-	-	-	-
5.2	Fixed Population (10% of Total Population)	-	-	130.00	45.00	5,850.00	2,600.00	3,250.00
5.3	Floating Population (90% of Total Population)	-	-	1140.00	15.00	17,100.00	11,400.00	5,700.00
	TOTAL GAMING ZONE DAILY WATER REQUIREMENT	-	-	-	-	22,950.00	14,000.00	8,950.00
6.0	EVENT SPACE	557	0.65	860.00	15	12,900.00	8,600.00	4,300.00
	TOTAL WATER REQUIREMENT FOR OFFICE AREA, RETAIL, GAMING ZONE, F & B & KIOSK	-	-	-	-	~~3,65,060.00~~ 331045	~~1,67,260.00~~ 159835	~~1,97,800.00~~ 171210
	SAY (KLD)					~~366.00~~ 335.0	~~168.00~~ 160.0	~~198.00~~ 172.0

Flushing water requirement including horticulture and soft water

$$= 168 + 176 + 16 \text{ KL.}$$

$$= 360 \text{ KL.}$$

352 say 360 KL

STP CAPACITY @ 80 % of domestic and 100% flushing

Sewage generated from building ¹⁷² (198x0.8) + (168)

Extra sewage from other source

Total ^{5% for margin factor}

Proposed STP Capacity

$$= 297.60$$

$$= 326.4 \text{ KL}$$

$$= 74.0 \text{ KL } 14.88$$

$$= 400.4 \text{ KL } 312.48$$

400.0 KL say 320 KL

Proposed 400 KL

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2. Type Of water

2.1 FROM HSVP/GMDA

- a) For domestic purpose from HSVP/GMDA = 198 KL
b) For firefighting purpose as per NBC = 560 KL
TOTAL = 758 KL

172
732

2.2 FROM STP

- a) For Flushing purpose from STP = 168 KL
b) For Soft water purpose from STP = 176 KL
c) For Landscape purpose from STP = 16 KL
TOTAL = 360 KL

352

3.	HSVP/GMDA Main water Supply Calculation		
		172	
a	Required Fresh Water per Day	198	KL
b	Supply Duration	8	Hrs
c	Line Flow Rate	0.358 0.4125	(Cum/Min)
d	Proposed line dia.	100	mm
e	Flow Velocity.	1.37	(m/sec)
f	Friction Head Loss /1000m	10.81	Mtr
g	Length of line	19	Mtr
h	Total Head Loss	0.24	Mtr

4. Underground Tank

Fire water tank

$$= (200\text{KL} \times 2\text{nos} + 160 \text{KL}) = 560\text{KL}$$

Raw water tank

$$= (110 \text{KL} + 110 \text{KL}) = 220 \text{KL}$$

Domestic water tank

$$= (110 \text{KL} + 110 \text{KL}) = 220 \text{KL}$$

TOTAL

$$= 1000 \text{KL}$$

760

5. Over head Tank

Domestic over head tank

$$= 100 \text{KL} \times 1 \text{Nos.}$$

Fire water over head tank

$$= 20\text{KL} \times 1 \text{Nos.}$$

Flushing over head tank

$$= 85 \text{KL} \times 1 \text{Nos.}$$

TOTAL

$$= 205 \text{KL}$$



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6. BOOSTING MACHINERY

A. Domestic

- Daily Domestic water demand
- Discharge per hour @ 8 hr. pumping / day
- Proposed Pump discharges
- Proposed pumping for domestic (1 working + 1 stand)
Gross Working Head
- Suction lift – positive suction
- Frictional Loss in Mains & S
- Residual head
- Max Clear Head required
- Basement ht. to Road Level

SAY

- HP of each pump required

$$\text{Pump - HP} = \frac{412.5 \times 150}{60 \times 75 \times 0.6}$$

172
 198 M³/day
 21.50
 24.75 M³/Hr
 412.5 LPM
 358.33
 412.5 LPM
 412.5 LPM Each
 360
 0 Mtrs.
 10 Mtrs.
 5 Mtrs.
 121.9 Mtrs.
 12.15 Mtrs.
 149.05 Mtrs
 150.0 Mtrs

$$= \frac{20.0}{22.91}$$

Say 23 HP Each

B. Flushing

- Daily Flushing water demand
- Discharge per hour @ 8 hr. pumping / day
- Proposed Pump discharges
- Proposed pumping for flushing (1 working + 1 stand)
Gross Working Head
- Suction lift – positive suction
- Frictional Loss in Mains & Specials
- Residual head
- Max Clear Head required
- Basement ht.

SAY

- HP of each pump required

$$\text{Pump - HP} = \frac{350 \times 155}{60 \times 75 \times 0.6}$$

168 M³/day

20 M³/hr
 333.33 350 LPM

350 LPM
 350 LPM Each

0 Mtrs.
 7 Mtrs.
 5 Mtrs.
 121.9 Mtrs.
 19.69 Mtrs.
 153.69 Mtrs
 155 M

$$= 20.09$$

Say 20 HP Each

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C. Irrigation purpose

- b. Daily irrigation water demand 16 M³/day
- b. Discharge per hour @2 hr. pumping / day 8 M³/hr
133.33 LPM
Say 135 LPM
- c. Proposed Pump discharges 135 LPM
- d. Proposed pumping for flushing (1 working + 1 stand) 135 LPM Each
- Gross Working Head
- e. Suction lift – positive suction 0 Mtrs.
- f. Frictional Loss in Mains & Specials 5 Mtrs.
- g. Residual head 20 Mtrs.
- h. Max Clear Head required 20 Mtrs.
45 Mtrs
50 M
- SAY
- j. HP of each pump required

$$\text{Pump - HP} = \frac{135 \times 50}{60 \times 75 \times 0.6} = 2.5$$

Say 2.5 HP Each

8. PUMPS FOR FIRE PROTECTION

S. No.	Parameters	Location	Pump Sets		
			Jockey	Main	Diesel
a)	Discharge in lpm	Pump Room	180 lpm	2850 lpm	2850 lpm
b)	Head in meters		110/180	110/180	110/180
c)	HP		7.5 / 12.5	175	175
d)	Quantity in Nos.		4	2	2

VII. GENERATING SETS:

- HP of Domestic Pump = 23 x 1 = 23
- HP of Flushing Pump = 20 x 1 = 20
- HP of Irrigation Pump = 2.5 x 1 = 2.5
- HP of Jockey pump = 2(7.5 + 12.5) = 29.5 - 40
- HP of Provision for lighting = 15 x 1 = 15

Total HP

= 90.0 HP

SAY

= 90.0 HP

IN KW

90 X 0.746 = 48.49 KW

IN KVA

= 83.92 72.73 X 1.5 = 109.10 KVA

SAY

= 85.0 KVA

Say 110 KVA

85 KVA capacity required for the plumbing fire equipment will be added on to the main DG.

For Advance India Projects Limited

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**APPROVAL OF REVISED BUILDING PLANS OF COMMERCIAL COLONY THE AREA
MEASURING 4.418 ACRES IN SEC-66 -GURUGRAM MANESAR URBAN COMPLEX.**

FINAL ABSTRACT OF COST

		Amount in Rs. Lacs
SUB WORK NO. I	WATER SUPPLY SCHEME	~~114.45~~ ~~135.45~~ 193.55
SUB WORK NO. II	SEWERAGE SCHEME	~~29.48~~ ~~69.98~~ 83.52
SUB WORK NO. III	STORM WATER DRAINAGE	~~10.625~~ ~~26.12~~ 41.05
SUB WORK NO. IV	ROADS & FOOT PATHS	~~13.38~~ ~~18.73~~ 74.97
SUB WORK NO. V	STREET LIGHTING	~~4.418~~ ~~5.52~~ 16.94
SUB WORK NO. VI	PLANTATION & ROAD SIDE TREES	~~0.46~~ ~~0.98~~ 1.92
SUB WORK NO. VII	MAINTENANCE CHARGES & SURFACING OF ROAD for 10 years.	~~49.18~~ ~~61.37~~ 105.37
	TOTAL 10.58 km ² 570.94 2nd Phase after 5 years 8 mths. (As per norms)	517.32 ~~347.34~~ 231.0
	Checked subject to comments in forwarding letter No. 1114.418 Dt. 29/07/2020 and notes attached with the estimate	

AUTHORISED SIGNATORY

Superintending Engineer (HQ)
for Chief Engineer 1 HSVP
Panchkula



Director
Town & Country Planning
Haryana, Chandigarh

For Advance India Projects Limited

Abhishek Jain
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2019/11-1661

Rate Per Acre 117.09
~~533.08~~ / 4.418 = ~~120.65~~ Lacs
517.32

Recorded for

Adtl. Chief Engineer
HSVP, Gurugram

Executive Engineer
HSVP Division No. IV
Gurugram

Superintending Engineer,
HSVP Circle-II, Gurugram

**APPROVAL OF REVISED BUILDING PLANS OF COMMERCIAL COLONY THE AREA
MEASURING 4.418 ACRES IN SEC-66 –GURUGRAM MANESAR URBAN COMPLEX.**

SUB WORK No. 1

**Water Supply &
Fire Fighting**

1	Sub Head No. 01	Pumping Machinery	104.10	~~100.60~~ 8,880,000.00
2	Sub Head No. 02	HSVP/GMDA Rising Main	2.85	~~4.60~~ 335,600.00
3	Sub Head No. 03	Distribution System domestic	4.45	~~10.21~~ 763,700.00
4	Sub Head No. 04	Fire rising Main	6.93	~~8.00~~ 520,600.00
5	Sub Head No. 05	Recycling water riser (irrigation and flushing)	7.79	~~12.05~~ 945,200.00
		TOTAL	126.12	11,445,100.00
		SAY IN LAKHS		114.45

Add 3% Contingency & P&B charges 3.78 lacs
129.90 lacs

Add 49% depl't, price escalation
unforeseen, return. 63.65 lacs

193.55 lacs

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CA/2019/114661



Sub -Work No. 1
Sub -Head No. 01

Water Supply & Fire Fighting
Pumping Machinery

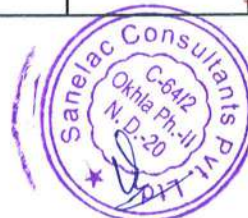
SL . NO	Description	Unit	Qty	Rate	Amount	
1	Providing and installing electricity driven pumping set for domestic and flushing supply complete with motor and other accessories					
	Domestic 412.5 LPM at 150 M Head 23 HP	Each	(1+1) 2	250000.00	4.00 lacs ~~500,000.00~~	
	Flushing 350 LPM at 155 M Head 20 HP	Each	(1+1) 2	250000.00	4.00 lacs ~~500,000.00~~	
	Irrigation 135 LPM at 50 M Head 2.5 HP	Each	2	100000.00	200,000.00	
2	Providing and installing pumping set of following capacities for Fire protection.					
	180 lpm at 110/180 M head (2 x 7.5 HP & 2 x 12 HP)					
		Each	4	100,000.00	400,000.00	
	2850 lpm at 110/180 M head (175 HP)					
		Each	2	800000.00	1,600,000.00	
	2850 lpm at 110/180 M head DG pump (175 HP)					
		Each	2	1000000.00	2,000,000.00	
3	Provision for chlorination plant complete					
		Each	2	100000.00	200,000.00	
4	Provision for making foundations and erection of Pumping Machinery.					
		LS		~~150000.00~~	300000	
5	Provision for carriage of material and other unforeseen Items etc.					
		LS		~~100000.00~~	250000	
6	Provision for pipes, valves and specially inside the pump chamber and boosting chamber					
		LS		~~150000.00~~	350000	
7	Provision for electric service connection including electrical fitting for pump					
		LS		~~150000.00~~	300000	
8	Construction of U.G Tanks & over head tank 560 KL @ Rs.3500 /KL incl. 560 KL for fire fighting					
		KL	560	3000.00	1,680,000.00	
9	Provision for Gen. set of 65 KVA capacity					
		LS		~~1250000.00~~	10.00 lacs	
	(C/O To Abstract of cost for subwork No.1)				8,880,000.00	
	SAY				~~100.60~~ 104.10 lacs	

For Advance India Projects Limited

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Sub -Work No. 1
Sub -Head No. 02

Water Supply Rising Main from HSVP/GMDA

SL .NO	Description	Unit	Qty	Rate	Amount
1	Providing , laying, jointing and testing pipe lines including Cost of excavation etc. complete in all respects .				
	100 mm dia. pipe	Each	38	1,200.00	~~45,600.00~~ 0.42 lak
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. completed in all respects.			12000	0.12 lak
	100 mm i/d	Each	2	~~20,000.00~~	~~40,000.00~~
3	Providing and fixing indicating plates for sluice valve and air Valves .				
		Each	2	5,000.00	10,000.00
4	Providing and fixing air release valve and scour valve. .				
		Each	2	7,500.00	15,000.00
5	Provision for carriage for materials and other unforeseen items .			(L.S)	0.25
		LS		~~75,000.00~~	~~75,000.00~~
6	Making water supply connection from HSVP/GMDA .			(L.S)	1.60 lak
		Each	1	~~75,000.00~~	~~75,000.00~~
7	Provision for cutting of roads and making good to In its original condition.			~~200000~~	0.75
		LS		~~75,000.00~~	~~75,000.00~~
	(C/O To Abstract of cost for subwork No.1)				~~335,600.00~~
	SAY				~~460600~~ 3.36

Lakhs

4.60285 lak

Material statement of HSVP/GMDA Rising Main

Line Name	Dia in MM	Length
GMDA LINE	100	19
TANKER LINE	100	19

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Sub -Work No. 1
Sub -Head No. 03

Water supply Distributing System Domestic

Sl.No	Description	Unit	Qty	Rate	Amount
1	Providing , Laying, jointing and testing ~~G.I.~~ pipe line including Fittings, valves, cost of excavation etc. complete in all respect.			1250/	3.18 lacs
	~~G.I~~ Pipe 80 mm	M	254	~~1,000.00~~	254,000.00
2	Provision for carriage of materials and other unforeseen items and cutting of roads.	L.S.		~~500,000.00~~	~~500,000.00~~
3	Providing and fixing valve.			12000/	0.12-2,200.00
	80 mm dia	Each	1	~~2200.00~~	
4	Providing and fixing air release valve			15000	15000
		Each	1	~~7500.00~~	~~7,500.00~~
					~~10,212.00~~
	(C/O To Abstract of cost for subwork No.1)				~~763,700.00~~
	SAY				~~10.21~~ 7.64

Lakhs

For domestic material refer Annexure -1

4.45 lacs

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PROJECT : AIPL

DOMESTIC WATER SUPPLY DESIGN STATEMENT - DOMESTIC LINE

Sr. No.	DESCRIPTION	SELF	BRANCH	TOTAL	PEAK	DIA	PIPE LENGTH		VELOCITY	HEAD LOSS	PUMPING HEAD	
							IN meter	Equivalent Pipe & Fittings 15%			TERMINAL HEAD + Residual Pressure	TOTAL PUMPING HEAD (SAY)
		DOMESTIC WATER DEMAND LTR./DAY	DOMESTIC WATER DEMAND LTR./DAY	DOMESTIC WATER DEMAND IN LTR./DAY	DISCHARGE @8 HRS. IN LPM	IN mm			IN m/sec.	(IN m)		
	DOMESTIC WATER SUPPLY LINE											
1	Plumbing Pump Room / WTP to Domestic OHT Tank Inlet	198000.000	-	198000.000	412.500	80.00	254	38.1	1.37	9.39	148.39	150

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PROJECT : AIPL			
ANNEXURE - 1			
DOMESTIC MATERIAL SHEET			
Sr. No.	DESCRIPTION	DIA	PIPE LENGTH
		IN mm	IN meter
	DOMESTIC WATER SUPPLY LINE		
1	Plumbing Pump Room / WTP to Domestic OHT Tank Inlet	80.00	254

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Sub -Work No. 1
Sub -Head No. 04

Fire fighting Rising Main

SL . NO	Description	Unit	qty	Rate	Amount
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	150 mm m.s. pipe line	M	120	1575/- ~~1200.00~~	1.89 lacs ~~144,000.00~~
i	100 mm m.s. pipe line	M	0	1100.00	
iii	80 mm i/d	M	174	1900.00	1.74 lacs 156,600.00
2	Providing & fixing valve 150 mm dia			(L.S.)	
		Each	0	~~3000.00~~	0.30
3	Providing and fixing fire Hydrant .				
		Each	10	15000/- ~~7000.00~~	150000 ~~70,000.00~~
4	Providing for carriage of material as other unforeseen items .			(L.S.)	300000
		LS		~~150000.00~~	150,000.00
					1.50 lacs
					~~800600~~
	(C/O To Abstract of cost for subwork No.1)				~~520,600.00~~
	SAY			~~8.00~~	5.21

Lakhs

For Fire fighting Rising Main material refer Annexure-2

6.93 lacs

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ANNEXURE - 2

(AIPL)-MATERIAL SHEET FOR EXTERNAL FIRE HYDRANT SYSTEM

S.No	LINE NO		PIPE IN METER	SIZE OF PIPE IN MM
	FROM	TO	LENGTH	DIA
1	Pump room	1	23 mtr	80mm DIA
2	BASEMENT (RW)	EFH-1	23 mtr	80mm DIA
3	BASEMENT (RW)	EFH-2	7 mtr	80mm DIA
4	BASEMENT (RW)	EFH-3	11 mtr	80mm DIA
5	BASEMENT (RW)	EFH-4	18 mtr	80mm DIA
6	BASEMENT (RW)	EFH-5	19 mtr	80mm DIA
7	BASEMENT (RW)	EFH-6	12 mtr	80mm DIA
8	BASEMENT (RW)	EFH-7	9 mtr	80mm DIA
9	BASEMENT (RW)	EFH-8	28 mtr	80mm DIA
10	BASEMENT (RW)	EFH-9	12 mtr	80mm DIA
11	BASEMENT (RW)	EFH-10	12 mtr	80mm DIA
		TOTAL LENGTH 80 MM DIA	174 mtr	
		TOTAL LENGTH 100MM DIA		
		TOTAL LENGTH 150MM DIA	120 mtr	
	TOTAL EXTERNAL FIRE HYDRANT =			10 Nos
	80 DIA Vertical length = 10 x 1 = 10 mtr			

For Advance India Projects Limited

Arjun

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Abhishek Jain
B. Arch.

CA/2019/14361



Sub -Work No. 1
Sub -Head No. 05

Recycling of water (Irrigation and flushing riser)

water supply

SL. NO	Description	Unit	Qty	Rate	Amount
1	Providing , Laying, jointing and testing G.I. pipe line including Fittings, valves, cost of excavation etc. complete in all respect.			<i>1200</i>	<i>2.83 las</i>
	G.I Pipe ~~80~~ mm	M	226.5	~~1,000.00~~	~~226,500.00~~
2	Providing and fixing valve.				<i>0.12 las</i>
	~~80~~ mm dia	Each	1	~~3000.00~~	~~3,000.00~~
3	Providing and fixing air release valve				
		Each	1	~~15000.00~~	~~15,000.00~~
4	Providing , Laying, jointing and testing Upvc pipe line including Fittings, valves, cost of excavation etc. complete in all respect.			<i>3500</i>	<i>3500</i>
a	25 mm dia	M	10	~~220.00~~	~~2,200.00~~
b	65 mm dia	M	533	~~1000.00~~	~~533,000.00~~
5	Providing and fixing 20 mm dia irrigation hydrant Valve complete in all respect.			<i>675</i>	<i>3.60 las</i>
		Each	17	~~5000~~ ~~1500.00~~	~~25,500.00~~
6	Provision for carriage of materials and other unforeseen items and cutting of roads.			<i>350000</i>	<i>350000</i>
		L.S.		~~150000.00~~	~~150,000.00~~
(C/O To Abstract of cost for subwork No.1)					~~945,200.00~~
SAY					~~9.45~~

Lakhs

For flushing Rising Main material refer Annexure-3a

For irrigation material refer Annexure-3 b

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B. Eng.
CA/2019/114661



PROJECT : AIPL													
FLUSHING WATER SUPPLY DESIGN STATEMENT - FLUSHING LINE													
Sr. No.	DESCRIPTION	SELF	BRANCH	TOTAL	PEAK	DIA	PIPE LENGTH	Equivalent Pipe & Fittings 15%	TOTAL LENGTH	VELOCITY	HEAD LOSS	PUMPING HEAD	TOTAL PUMPING HEAD (SAY)
		FLUSHING WATER DEMAND LTR./DAY	FLUSHING WATER DEMAND LTR./DAY	FLUSHING WATER DEMAND IN LTR./DAY	DISCHARGE @8 HRS. IN LPM	IN mm	IN meter			IN m/sec.	(IN m)	TERMINAL HEAD + Residual Pressure	
1	FLUSHING WATER SUPPLY LINE Plumbing Pump Room / STP to Flushing OHT Tank Inlet	168000.000	-	168000.000	350.000	100.00	226.5	33.975	261	1.16	6.17	153.17	155

For Advance India Projects Limited

Arundel

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B. Arch
CA/2019/114661

PROJECT : AIPL			
ANNEXURE - 3a			
FLUSHING MATERIAL SHEET			
Sr. No.	DESCRIPTION	DIA	PIPE LENGTH
		IN mm	IN meter
	FLUSHING WATER SUPPLY LINE		
1	Plumbing Pump Room / STP to Flushing OHT Tank Inlet	80.00	226.5

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B. Arch.
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ANNEXURE - 3b

(AIPL) MATERIAL SHEET FOR IRRIGATION SYSTEM

S.No	LINE NO		PIPE IN METER	SIZE OF PIPE IN MM
	FROM	TO	LENGTH	DIA
1	STP	A	40 mtr	63mm OD
2	A	GH-1	20 mtr	63mm OD
3	GH-1	GH-2	30 mtr	63mm OD
4	GH-2	GH-3	28 mtr	63mm OD
5	GH-3	GH-4	35 mtr	63mm OD
6	GH-4	GH-5	25 mtr	63mm OD
7	GH-5	GH-6	25 mtr	63mm OD
8	GH-6	GH-7	30 mtr	63mm OD
9	GH-7	GH-8	30 mtr	63mm OD
10	GH-8	GH-9	30 mtr	63mm OD
11	GH-9	GH-10	29 mtr	63mm OD
12	GH-10	GH-11	30 mtr	63mm OD
13	GH-11	GH-12	30 mtr	63mm OD
14	GH-12	GH-13	30 mtr	63mm OD
15	GH-13	GH-14	30 mtr	63mm OD
16	GH-14	GH-15	35 mtr	63mm OD
17	GH-15	GH-16	24 mtr	63mm OD
18	GH-16	GH-17	22 mtr	63mm OD
19	GH-17	A	10 mtr	63mm OD
		TOTAL LENGTH 63mm OD	533 mtr	
TOTAL GARDEN HYDRANT = 17 Nos				
25MM DIA VERTICAL LENGTH = 17x1 = 17 mtr				

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B. Arch
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Axina

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Sub -Work No. II

Sewerage Scheme

SL. NO	Description	Unit	Qty	Rate	Amount
1	Providing , jointing, cutting & testing S.W. pipe Class 'A' and lowering into trenches including cost of excavation, bed concrete cost of manholes etc. complete in all respects				
a	200 mm dia i/d S.W. pipes	M	0	1250.00	0
2	Providing and fixing spun cast iron soil, waste and vent pipes (IS:3989), including painting & cutting holes in walls and floors and making good where required, excluding cost of fittings and drip seal joint For STP overflow. <i>PIPE Running along basement ceiling</i>				<i>1.42 /as</i>
a	C.I. pipe 150 mm	M	90	~~2200.00~~	~~198,000.00~~
3	Provision for cartage of material and other unforeseen items. <i>as cutting of roads, making good & its in original</i>			~~1575~~	~~350000~~
		LS		~~150000.00~~	~~150,000.00~~
4	Provision for making HSVP/GMDA connection. <i>on master frame</i>	LS		~~200000.00~~	~~200,000.00~~
5	STP capacity 400 KLD <i>up to tertiary level</i>			~~450000~~	~~450000~~
		KLD	400	~~6000.00~~	~~2,400,000.00~~
					<i>50.00 /a</i>
					~~400000~~
	<i>final</i> (C/O To Abstract of cost for subwork No. II)				~~2,948,000.00~~
	SAY				~~29.48~~

Add 3% Contingency & PE charges

Add 4% depth price escalation, unshown
Adm. chargesAbhishek Jain
B. Arch
CA/2019/114661

For Advance India Projects Limited

Arunot F

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Rs. 1.63 la
 Rs. 56.05 la
 Rs. 27.43 la
 Rs. 83.52 la

SL .NO	Description	Unit	Qty	Rate	Amount
1	Providing, Laying R.C.C. pipes drain class NP-2 with cement joint manholes excavation, etc. complete in all respects.				
a	400 mm dia.	M	290	~~1250.00~~	~~362,500.00~~
2	Provision for road gully including pipe connection				
				LS	~~50,000.00~~
3	Provision for roof top rain harvesting arrangement - Recharge pit .				
		Each	4	150000.00	600,000.00
4	Provision for carriage of material and unforeseen items				
		LS		~~150000.00~~	~~150,000.00~~
5	Provision for making HSVP/GMDA connection.				
		LS		~~200000.00~~	~~200,000.00~~
		LS			~~500,000.00~~
6	Provision for cutting of roads and making good to its original condition				
		LS			~~400,000.00~~
	(C/O To Abstract of cost for subwork No.III)				~~1,962,500.00~~ Lakhs
	SAY				~~19.63~~
	For Storm material refer Annexure-4				~~26.75~~

Add 3% Contingency & Recharge
Add 4% deflt - price escalation
unforeseen

Abhishek Jain
Engr.
CA/2019/114661

C-64/2
Okhla Ph.-II
N.D. 20

26.75 lakhs
0.80 lakhs
27.55 lakhs
13.50 lakhs

41.05 lakhs

For Advance India Projects Limited

Arushi

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PROJECT : AIPL																					
STORM WATER DESIGN CHART																					
Formula used - Rational																					
Q = 10 C I A																					
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For Advance India Projects Limited
 Authorized Signatory
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 B. Archt.
 CA/2019/114661

ANNEXURE - 4			
PROJECT : AIPL			
Sr.No	NODE NO.	Water Section Pipe Dia	Pipe Length (m)
1	MH-1 to MH-2	400	10.000
2	MH-2 to MH-3	400	12.000
3	MH-3 to MH-4	400	10.000
4	MH-4 to MH-5	400	17.500
5	MH-5 to MH-6	400	8.000
6	MH-6 to MH-7	400	9.000
7	MH-7 to MH-8	400	14.000
8	MH-8 to MH-9	400	8.500
9	MH-9 to MH-10	400	10.000
10	MH-10 to MH-11	400	10.000
11	MH-11 to MH-12	400	12.000
12	MH-12 to MH-13	400	10.500
13	MH-13 to MH-14	400	16.000
14	MH-14 to RWH - 1	400	2.000
15	MH-15 to MH-16	400	10.000
16	MH-16 to RWH - 1	400	2.000
17	MH-17 to MH-18	400	15.000
18	MH-18 to MH-19	400	23.000
19	MH-19 to MH-20	400	7.000
20	MH-20 to RWH - 2 to MH-21	400	5.400
21	MH-21 to MH-22	400	17.000
22	MH-22 to RWH - 3 to MH-23	400	5.000
23	MH-23 to MH-24	400	12.000
24	MH-24 to MH - 25	400	13.000
25	MH-25 to RWH - 4	400	3.000
26	MH-26 to MH-27	400	3.000
27	MH-27 to MH-28	400	21.000
28	MH-28 to RWH - 4	400	2.000
	TOTAL LENGTH		287.900
	SAY		290 <i>ml</i>

Abhishek Jain
B. Archt
CA/2019/114661



For Advance India Projects Limited

Arul F

Authorized Signatry

Sub -Work No.IV

Roads and Footpaths

SL.NO	Description	Unit	Qty	Rate	Amount
1	Provision for leveling and earth filling as Per site condition 4.418 acres				
		Acre	4.418	100000.00	441,800.00
2 (i)	Soling Coat 100mm thick (63-45mm) gauge Completed to 75mm thick WBM confirming to MOT specification (Table 400-6 grading No.2)				
(ii)	Wearing coat (Top Coat) 100mm thick (53 to 22.4mm gauge compacted to 75mm thick Conforming to MOT specification (Table 400-6 Grading No.2)				
(iii)	25mm thick pre-mix carpet with seal coat				
		sqmt.	2709	180.00	487,620.00
3	Provision for kerb and channels of CC (1:1.5:3) (430x2)				
		M	860	400.00	344,000.00
4	Provision for making approach to each block and Pavement LS				
		LS		10000.00	10,000.00
5	Provision for guide map and other unforeseen items and Indicating board etc. LS				
		LS		5000.00	5,000.00
6	Provision for cartage of material an other unforeseen items.				
		LS		50000.00	50,000.00
	(C/O To Abstract of cost for subwork No.IV)				1,338,420.00
	SAY				13.38
For Storm material refer Annexure-5					

Add 3% Contingency & PE charges

Abhishek Jain
B. Arch.
CN/2015/114661

Add 49% Depn. & provision

unfurnished



For Advance India Projects Limited

Author

Authorized Signatry

48.85 lakhs

1.47 lakhs

50.32 lakhs

24.65 lakhs

74.97 lakhs

SL.NO	Description	Unit	Qty	Rate	Amount
1	Providing Street lighting on roads as per standard specification of HVPN <i>with cpi</i>			~~125000~~	~~552250~~
		Acre	4.418	100000.00	441,800.00
				~~2.50/las~~	
	<i>final</i> (C/O To Abstract of cost for subwork No.V)			~~552250~~	~~441,800.00~~
	SAY			~~5.52~~	~~4.42~~

Lakhs

Add 3% Contingency & PE charges

Add 49% depth price
unproven, *Delhi* *Cham*Abhishek Jain
B. Arch.
CA/2019/114661

Rs

0.33 las

\$ 11.37 las

Rs 5.57 las

Rs 16.94 las

For Advance India Projects Limited

Arumel F

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Sub -Work No.VI

Plantation and road side trees

SL.NO	Description	Unit	Qty	Rate	Amount
1	Development of lawn area (organised green	0.18 Acres)		~~250000~~	~~45000~~
		Acre	0.18	100000.00	18,000.00
a	Trenching the ordinary soil up to dept of 60cm including removal and stacking serviceable material and disposing of by spreading and leveling within a lead of 50m and making up the trenches area to proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure.			1.50 /a	0.27 /a
b	Rough dressing of turfed area				
c	Grassing with "Doob Grass" including watering and IV. Maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in rows 7.5 m Apart in either direction 8 Acres @ 100000 per acre				
2	2. Providing tress, guards and planting trees along road at 15 m interval both side Total road length = $(16.5 \times 2) = 33$ No of Tress = $33 \times 71.66 = 2364.78$ say = 2365 Cost Analysis of Planting Trees Excavation = 50 each 60.00 Manure = 50 each 90.00 Tree plants = 200 each 150.00 Tree guards = 500 each = Rs.800 per tree 10000 13000 75			1500	0.98 /a
		Each	35	800	28,000.00
				1300	99500
	(C/O To Abstract of cost for subwork No.VI)				46,000.00
	SAY				0.98 0.46

Lakhs

Add 3% Contingency & PE charges

Add 49% deff, power, escalator, unsm, & other charges

1.25 /a

0.04 /a

1.29 /a

0.63 /a

1.92 /a

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Sub -Work No.VII		Maintenance Charges & Resurfacing of Road				
SL.NO	Description	Unit	Qty	Rate	Amount	
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation and establishment charges as per HSVP/GMDA norms after completion and resurfacing of roads after 10 years 4.418 Acres @ ~~5.00~~ lacs per acre.					
		Acre	4.418	~~500000.00~~ 7.50	~~2,209,000.00~~ 33.14	
2	Provision for resurfacing of roads after 1st 5 years of maintenance by provision by providing 50mm thick B.M. & 25 mm thick Premix Carpet.					
		Sq. Mtr.	~~2709~~ 2630	~~400.00~~ 500	~~1,083,600.00~~ 1,318,000	
					15.78 lacs	
3	Provision for resurfacing of roads after 10 years by providing 50mm thick B.M. & 25 mm thick Premix Carpet.					
		Sq. Mtr.	~~2709~~ 2630	~~600.00~~ 950	~~1,625,400.00~~ 2,500,000	
					19.73	
					4,918,000.00	Lakhs
	(C/O To ~~Abstract of cost for subwork No.VII~~)				~~4,918,000.00~~	
	SAY				~~61.37~~ 49.18	68.65 lacs

Add 3% Contingency & P&C charges 2.05 lacs

Add 49% depld price of material 70.70 lacs

under sum, Adm. Abhishek Jain 34.65 lacs

B. Arora
CA/2019/114661

105.35 lacs

Finance India Projects Limited

Arulraj

Authorized Signatry

ANNEXURE - 5

MATERIAL STATEMENT OF ROAD

S.NO	NODE		WIDE	LENGTH	6	7.5
	From	To	METER	METER	M (WIDE)	M (WIDE)
1	1	2	6	430	430	0
					430	0
					AREA in SQM.	2580
					Add 5 % CURVE	129
					TOTAL AREA	2709
					TOTAL LENGTH	430
					CHANNEL	860

Abhishek Jain
B. A.
CA/2019/114661



For Advance India Projects Limited

Arvind E

Authorized Signatry