

To

Date: 02.03.2019

The Executive Engineer,

HSVP, Division No. - 4

Gurugram.

Subject:- Approval of the Service Plan Estimate of the Affordable Group Housing Colony on the land measuring 5.5625 Acres (License No. 109 of 2019) in Sector- 70, Gurugram Manesar Urban Complex being developed by Sh. Ram Avtar and Others.

Dear Sir,

With reference to the above mentioned subject, we hereby submitting Six sets of the service plan estimate for your consideration please.

Kindly do the needful and oblige.

Thanking you,

Yours truly,

For Sh. Ram Avtar

Ram Avtar

Authorized Signatory

Cc:- Director, Town & Country Planning, Haryana, Chandigarh



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

FOR

**PROPOSED “AFFORDABLE GROUP HOUSING COLONY”
AREA MEASURING 5.5625 ACRES (LICENSE NO. 109 OF 2019
DATED 11.09.2019) IN SECTOR – 70, GURUGRAM –
MANESAR URBAN COMPLEX BEING DEVELOPED BY SH.
RAM AVTAR AND OTHERS.**

SERVICE ESTIMATE, DESIGN REPORT AND CALCULATIONS OF INTERNAL DEVELOPMENT WORKS FOR PROPOSED "AFFORDABLE GROUP HOUSING COLONY" AREA MEASURING 5.5625 ACRES (LICENSE No. 109 of 2019 Dated 11.09.2019) IN SECTOR – 70, GURUGRAM – MANESAR URBAN COMPLEX BEING DEVELOPED BY SH. RAM AVTAR AND OTHERS.

Gurugram town of Haryana State situated on N.H. –48 road at a distance of 35 Km from Delhi. Being in the national capital region, the town has fast developing tendency and potential. Further, it has also started sharing the growing residential, commercial and Industrial load of Delhi. In order to review the growing pressure of population in National Capital of Delhi, It has been decided by the Haryana Government to develop various infrastructure facilities in Gurugram Manesar Urban Complex. This report is for a part of service estimate for proposed "Affordable Group Housing Colony" measuring 5.5625 acres (License No. 109 of 2019 dated 11.09.2019) in Sector – 70, Gurugram – Manesar urban complex being developed by Sh. Ram Avtar and others. has been prepared with the following provisions which are as under :-

1. WATER SUPPLY

The source of water supply in this area is by HSVP Mains. It has been proposed to construct underground tanks of capacity as per attached details and to location for domestic purpose and for fire protection. The underground tanks will be fed from the HSVP based supply, which will feed O.H. tanks on the roof of the Building and has been designed as per the Hazen Williams formula. Presently there is proposed / under execution HSVP W/S in this area. However the provision of tube well have been taken due to non availability of water but after getting the approval from the competent authority through tube wells / tankers / any other approved source till HSVP W/S will be made available. The proposed tube wells shall be 510mm bore drilled with reverse rotary rig and installed with 80mm i/d housing pipe and 50mm i/d slotted tube as strainer, hence the provision of One No. Tube Wells have been taken in this estimate.

DESIGN

The scheme has been designed for population of 4090 persons considering @ 5 persons / units for Affordable Group Housing and other provision etc. The combined quantum of water supply (domestic + flushing) per head / day has been taken as 172.50 Liters per head per day as per design calculation.

PUMPING EQUIPMENTS

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

2. SEWERAGE

The scheme is designed for sewer connecting to the STP and bypass connection to HSVP sewer scheme. The sewer lines have designed for three times average D.W.F in relation to water supply demand. It has assumed that about 80% of the domestic and flushing water supply shall find its way into the proposed sewer. Sewer lines shall be running by gravity and discharge to STP proposed. Treated water will be used for Irrigation & Flushing purpose (through recycling) under the pipe line system.

3. STORM WATER DRAINAGE

It has been proposed to lay R.C.C pipes with required number of manholes for disposal of storm water, which will be connected to the HSVP drain. The intensity of rain fall has been taken as 6.00mm per hour. A minimum size of 400mm i/d R.C.C pipe for storm water drain will be provided and designed as per Manning's formula. Necessary provision of rainwater harvesting arrangement has also been taken in this estimate.

4. ROADS

Road, Parking and Pavement have been provided to above areas and estimate is prepared as revised specifications adopted by HSVP.

5. STREET LIGHTING AND ELECTRIFICATION :-

Provision for external lighting and electrification of proposed area has been made.

6. HORTICULTURE :-

Estimate and details of plantation, landscaping, signage etc. have been included.

7. FIRE FIGHTING :-

Provision of Fire Fighting system has been made.

8. Provision of construction of ESS Shed has been taken in this estimate.

9. SPECIFICATIONS

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

10. RATES

The estimate has been based on the present market rates.

11. COST

The total cost of the scheme including cost of all services works out to Rs. 453.99 Lacs (Rupees Four Crore Fifty Three Lacs Ninety Nine Thousand only) including 3% contingencies and 49% departmental charges + Price escalation and cost per acre comes out to Rs. 81.62 Lacs.

(Authorized Signatory)

1. DESIGN CALCULATION :-

Total Area of plot (commercial)	= 5.5625 Acres or 22510.603 Sqm
Permissible Ground Coverage 50%	= 11255.302 Sqm
Proposed Ground Floor	= 11255.302 Sqm
Permissible F.A.R. @ 2.25% (Resi.)	= 48622.903 Sqm
Proposed F.A.R Achieved (Resi.)	= 48470.063 Sqm
Proposed area of commercial	= 1547.595 Sqm
Community Building	= 198.60 Sqm
Anganwari	= 198.60 Sqm

2. Detail of Units

No. of Units	No. of Floors	No. of Block	Unit / Block	Total Unit	Density
Tower -1	G + 14	1	118	118	590
Tower -2	G + 14	1	118	118	590
Tower -3	G + 14	1	118	118	590
Tower -4	G + 14	1	118	118	590
Tower -5	G + 14	1	118	118	590
Tower -6	G + 14	1	118	118	590
Tower -7	G + 13	1	110	110	550
Total Density				818	4090

3. Water Requirement :-

Total Population	= 4090 Persons
@ 172.50 LPCD	= 705525.00 LPD
Commercial & Community Buildings :-	
• Commercial	= 1547.595 Sqm
@ 3 Sqm / person = 516 Persons @ 45 LPCD	= 23220.00 LPD
• Community Building (Area 198.60 Sqm) L.S	= 10000.00 LPD
• Anganwari (Area 198.60 Sqm) L.S	= 10000.00 LPD
• Other staff i.e. mtc staff & Guard's etc. (L.S.)	= 5,000.00 LPD
Total	= 753745.00 LPD Or 754 KLD
	Say 760 KLD

II. FIRE DEMAND

(i) Population	= 4090 Persons
(p) $\frac{1}{2} \times 100/1000 = (4.09) \frac{1}{2} \times 100$	= 202.23 KLD Say 210 KLD

III. Garden Irrigation Requirement (For Total Area) = 50.00 KLD**IV. Total Water Requirement for UGT**

(Excluding Fire Demand)

Hence Domestic Water Requirement (67%) = 760 x 67% = 509.00 KLD

Hence Flushing Water Requirement (33%) = 760 x 33% = 251.00 KLD

Half Day Requirement = 260 K.L. for Domestic

= 130 K.L. for Flushing

But it is proposed to construct an underground tank i.e. 260 K.L. in two compartment for domestic use and 130 K.L. for non potable water in two compartment (at STP) and 210 K.L. for fire fighting purposes for UGT in two compartment in UGT as shown location in the plan.

Total Capacity of UGT	= 260 + 210	= 470.00 KLD
Total Requirement for Flushing and Irrigation at STP	= 251+50	= 301.00 KLD
VI. Tube Well		For UGT
a) Yield		= 15 K.L. / Hr.
b) Working Hour per day		= 16 Hr. / Per Day
c) Total water demand (Domestic)		= 509 M3/Day
d) Number of tube well required		= 2.12 Nos
(Water Demand / Discharge / Hr. working Per day)		
e) Add 5% extra		= 0.10
	Total	= 2.22 Nos
	Say	= 2 Nos

(Water to the proposed development is to be supplied by HSVP. However consider 50% T.W.'s it is proposed to install only one no. tube wells for augmentation / standby purposes and provision has also been taken in the estimates due to non availability of water but after getting the approval from the competent authority.

I) Pumping Machinery for Tube wells	
a) Gross Working Head	= 80 Mtr
b) Average fall in S.L	= 2 Mtr
c) Depression Head	= 6 Mtr
d) Friction loss in main	= 10 Mtr
Total	= 98 Mtr
e) Discharge	= 15000 LPH (Or 4.17 LPS Say 4.50 LPS)
f) Horse Power	= 9.80 H.P.
HP = $(4.50 \times 98) / (75 \times 0.60)$	
	Say = 10.00 H.P.

It is proposed to provide 1 No. pumping set of 4.50 LPS discharge at 98 Mtr head (1W)

II) Boosting Machinery for domestic water For UGT	
Total Water Requirement	= 509.00 KLD
Pumping per hour @ 8 hr. pumping / day	= 509 / 8 KL / hr.
	= 63.625 KL / hr.
	= 1060.41 lpm = 17.67 lps
	Say 2 No. 9.00 lps each
Gross working head	For UGT
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 5.00 mts.
- Clear Head required	= 65.00 mts.
Total	= 75.00 mts.
Say	= 75.00 mts.
Pump HP	= $(9.00 \times 75) / (75 \times 0.60) = 15.00$ H.P.
	Say = 15.00 HP

It is proposed to provide 3 Nos of pumping set of 9.00 lps discharge at 75mts Head each (2W + 1S) for UGT

III) Boosting Machinery for flushing water at STP

Total Water Requirement	= 251 K.L.D
Pumping per hour @ 8 hr. pumping / day	= 251 /8 KL / hr.
	= 31.375 KL / hr.
	= 522.92 lpm = 8.72 lps,
	Say 2 No.5.00 lps each
Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 5.00 mts.
- Clear Head required	= 65.00 mts.
Total	= 75.00 mts.
Say	= 75.00 mts.
Pump HP	= (5.00 x 75) / (75 x 0.60)
	= 8.33 HP
	Say = 10.00 HP

It is proposed to provide 3 Nos of pumping set of 5.00 lps discharge at 75 mts Head each (2W + 1S)

IV) Boosting Machinery for Irrigation water

Total Water Requirement	= 50 KLD
Pumping per hour @ 5 hr. pumping / day	= 50 /5 KL / hr.
	= 10.00 KL / hr.
	= 166.66 lpm = 2.77 lps
	Say = 5.00 LPS
Gross working head	
- Suction lift	= 3.00 mts.
- Frictional loss in mains & specials	= 3.00 mts.
- Clear Head required	= 20.00 mts.
Total	= 26.00 mts.
Say	= 26.00 mts.
Pump HP	= (5.00 x 26) / (75 x 0.60)
	= 2.88 HP
	Say = 3.00 HP

It is proposed to provide 2 No. of pumping set of 5.00 lps discharge at 26 mts Head each (1W + 1S)

V) Boosting Machinery for Fire water**Total Water Requirement**

Hydrant pump as per CFO Directive	= 2280 LPM, 95M Head and 80 H.P = 1 Nos
Jockey pump (Hydrant) as per NBC table No. 23	= 180 LPM, 95M Head and 7.50 H.P = 1 Nos
Diesel pump as per CFO Directive	= 2280 LPM, 95 M Head and 80 H.P = 1 Nos
Gross working head	
- Suction lift	= 5.00 mts.
- Frictional loss in mains & specials	= 5.00 mts.
- Clear Head required	= 85.00 mts.
Total	= 95.00 mts.
Jockey Pump HP (Fire)	= (3 x 95) / (75 x 0.60)
	= 6.33HP
Say	= 7.50 HP (1W)

VI) DG Set for plumbing**DG Set Requirement**

Submersible Pump (1 x 10)	= 10 HP
Domestic Pump (2 x 15)	= 30 HP
Flushing Pump (2 x 10)	= 20 HP
Street Light and other etc.	= 5 HP
Fire Jockey pump	= 7.5 HP
Total pump load	= 72.50 HP
	= 72.50 x 0.746 x 1.50
	= 81.12 K.W
Total DG capacity	= 1 No. 100 KVA

Hence it is proposed to provide 1 No. D.G. Set of 100 KVA capacity

FLOW TO SEWAGE TREATMENT PLANT

Total Water Requirement = 509 KLD for domestic & 251 KLD for flushing

i) 80% of total Domestic Water Demand = 80% of 509 KLD	= 407.20 KLD
ii) 80% of total Flushing Water Demand = 80% of 251 KLD	= 200.80 KLD
Total	= 608.00 KLD
Considering 5% marginal factor	= 30.40 KLD
G. Total	= 638.40 KLD

Say 640 KLD

Proposed STP Capacity = 640KLD Or 0.64 MLD

(Authorized Signatory)

FINAL ABSTRACT OF COST

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	SUB WORK NO. I	WATER SUPPLY SCHEME	141.22
2	SUB WORK NO. II	SEWERAGE SCHEME	127.42
3	SUB WORK NO. III	STORM WATER DRAINAGE	51.03
4	SUB WORK NO. IV	ROAD AND FOOTPATH	66.83
5	SUB WORK NO. V	STREET LIGHTING	8.11
6	SUB WORK NO. VI	HORTICULTURE (PLANTATION & ROAD SIDE TREES)	4.83
7	SUB WORK NO. VII	MTC. OF SERVICES & RESURFACING OF ROADS (After 1st 5 years of 1st Phase & Next 5 years in 2nd Phase)	54.55
		TOTAL	453.99
TOTAL : (Rupees Four Crore Fifty Lacs Seventy Three Thousand only)			

Cost Per Acre = Rs.453.99 Lacs / 5.5625 = 81.62 Lacs Per Acre

AUTHORISED SIGNATORY

SUB WORK NO. 1 (Abstract of cost)

WATER SUPPLY SCHEME

SR. NO.	SUB WORK	DESCRIPTION	AMOUNT (Rs. In Lacs)
1	Sub Head No. 01	Head Works	24.90
2	Sub Head No. 02	Pumping Machinery	29.90
3	Sub Head No. 03	Water Supply Distribution & Rising main pipe	22.22
4	Sub Head No. 04	External Fire Hydrants	12.57
6	Sub Head No. 05	Irrigation	2.43
		TOTAL	92.02
		Add 3% contingency & P.H. Services	2.76
		Total	94.78
		Add 49% Department charges + Price Escalation	46.44
		G. Total	141.22
		Say in Lacs	141.22

(C.O. to Final Abstract Of Cost)

SUB WORK NO. I
Sub Head No. 01

WATER SUPPLY
Head Works

Sr. NO.	Description	Amount in Rs.
1	Construction of U.G. tanks and Fire Tank Including pipes, valve & Specials. 470 KLD @ Rs. 3000/- per K.L.D	1410000
2	Provision for construction of Boosting Station 1 Nos @ Rs. 250000/- each	250000.00
3	Boring and installing tube well reverse rotary rig complete with pipes and strainer to a depth of about 98 Mtr complete in all respect. 1 Nos @ Rs. 700000/- each	700000.00
4	Provision for construction of tube well chamber size 1.50m x 1.50m complete in all respect. 1 Nos @ Rs. 80000/- each	80000.00
5	Provision for carriage of material and unforeseen items L.S.	20000.00
6	Provision of specials for tube well & rising main to UGT L.S.	30000.00
	Total	2490000.00
	Say in Lacs	24.90

(C.O. to Abstract of cost of Sub Work No. I)

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SUB WORK NO. 1
Sub Head No. 02

WATER SUPPLY
Pumping Machinery

Sr. NO.	Description	Amount in Rs.
1	Providing and installing Hydro pneumatic pumping set of following capacities for domestic water Supply with specials	
	9.00 lps at 75 mts head - 3 No. (2W+1SB) - @ Rs. 2,00,000/- each Set (15.00HP)	600000.00
2	Providing and installing Hydro Pneumatic pumping set of following capacities for Flushing water supply & Irrigation	
	5.00 lps at 75 mts head - 3 No. (2W+1SB) @ Rs. 1,00,000/- 1 Set (10 HP each)	300000.00
	5.00 lps at 26 mts head - 2 Nos (1W+1SB) @ Rs. 15,000/- 1 Set (3 HP each)	30000.00
3	Providing and installing Submersible pump for tube wells with specials	
	4.50 lps at 98 mts head - 1 Nos (1W) @ Rs. 80,000/- 1 Set (10HP each)	80000.00
4	Provision for construction of ESS Shed 1 Nos @ Rs. 60,000/- each	60000.00
5	Providing and installing pumping sets of following capacities for Fire Protection etc. with foundation complete	
	- 180 lpm at 95 M head 1 No. @ Rs. 80,000/- (7.50 HP each)	80000.00
	- 2280 lpm at 95 M head 1 No. @ Rs. 3,50,000/- (80 HP each) (Hydrant)	350000.00
	- 2280 lpm at 95 M head 1 No. @ Rs. 4,50,000/- (80 HP) (Diesel Engine)	450000.00
6	Provision for D.G. Set for stand by arrangement for all machinery = 1 No. 100 KVA @ Rs. 7,00,000/- each	700000.00
7	Provision for making foundations & erection of pumping machinery	40000.00
8	Provision for pipes, valve & specials inside boosting chamber	150000.00
9	Provision for electric services connection including electric fittings for boosting chambers and pump chamber etc.	100000.00
10	Provision for carriage of materials and other unforeseen items I.S.	50000.00
	Total	2990000.00
	Say in Lacs	29.90

(C.O. to Abstract of cost of Sub Work No. 1)

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SUB WORK NO. 1
Sub Head No. 03

WATER SUPPLY
Water Supply Distribution & Rising Main Pipe

Sr. NO.	Description	Amount in Rs.
1	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respects	
i)	100mm dia D.I. Pipe 655 Mtr @ Rs. 700/- Per Mtr	458500.00
ii)	150mm i/d D.I. Pipes - 1130 Mtr @ Rs. 1000/- Per Mtr	1130000.00
iii)	200mm i/d D.I. Pipes 20 Mtr @ Rs. 1200/- per mtr	24000.00
2	Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respect	
a)	100mm i/d 15 No. @ Rs. 7500/- each	112500.00
b)	150mm i/d 25 No. @ Rs. 10000/- each	250000.00
c)	200mm i/d 2 No. @ Rs. 15000/- each	30000.00
3	Providing and fixing indicating plates for sluice valve 42 No. @ Rs. 1000/-	42000.00
4	Provision for carriage of materials and other unforeseen items	25000.00
5	Provision for making connection with HUDA Pipe & T.W's etc.	100000.00
6	Provision for cutting the road and making good the same	50000.00
	Total	2222000.00
	Say in Lacs	22.22

(C.O. to Abstract of cost of Sub Work No. I)

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SUB WORK NO. 01

WATER SUPPLY

SUB HEAD NO. 04

EXTERNAL FIRE HYDRANTS

Sr. NO.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing Heavy Class M.S. Pipes for fire rising main including cost of fittings, valves, connection etc. complete in all respect	
a)	100mm dia - 168 M @ Rs. 600/- Per Mtr	100800.00
b)	150mm dia - 970 M @ Rs. 900/- Per Mtr	873000.00
2	Providing and fixing fire Hydrant with accessories 28 No. @ Rs. 7500/- each	210000
3	Provision for Security Services for Fire Arrangement L.S.	20000.00
4	Providing and fixing indicating plate -28 No, @ Rs. 1000/- each	28000.00
6	Provision for carriage of material L.S.	25000.00
	Total	1256800.00
	Say In Lacs	12.57

(C.O. to Abstract of cost of Sub Work No. I)

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SUB WORK NO. 01

WATER SUPPLY

SUB HEAD NO. 05

IRRIGATION

Sr. NO.	Description	Amount in Rs.
1	Providing, Laying, jointing and testing UPVC pipe lines suitable for 6 kg pressure including cost of fittings, valves, connection etc. complete in all respect	
a)	25mm dia - 180 M @ Rs. 350/- Per Mtr	63000.00
2	Providing and fixing 25mm dia, Irrigation hydrant valve complete in all respect 30 Nos @ Rs. 3000/- each	90000.00
3	Provision for carriage of materials and other unforeseen items L.S.	25000.00
4	Provision for indicating plate with safety box etc. complet in all respect 30 Nos @ Rs. 1500/- each	45000.00
6	Provision for road cutting and making it condition as original L.S.	20000.00
	Total	243000.00
	Say in Lacs	2.43

(C.O. to Abstract of cost of Sub Work No. 1)

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SUB WORK NO. II

SEWERAGE SCHEME

Sr. NO.	Description	Amount in Rs.
1	Providing, jointing, cutting and testing stoneware pipe grade A and lowering into trenches including cost of excavation, bed concrete, cost of manholes etc. complete	
	a) SW Pipe 200mm i/d avg. depths 0 - 2.00M 120 M @ Rs. 1200/- per Mtr	144000.00
	b) SW Pipe 250mm i/d avg. depth 2.00 M 514 M @ Rs. 1300/- per Mtr	668200.00
	c) SW Pipe 300mm i/d avg. depth 2.75 M 20 M @ Rs. 1500/- per Mtr	30000.00
2	Providing, laying, jointing & testing pipe lines including cost of excavation etc. complete in all respect - 150mm dia Heavy Class D1 pipes (overflow for STP)	
	a) 150MM i/d D.I. Pipe - 210 M @ Rs. 1000/- Per Mtr	210000.00
3	Provision of lighting and watching etc.	30000.00
4	Provision for cartage of material	20000.00
5	Provision for making connection with HUDA	200000.00
6	Provision for construction of Sewerage Treatment Plant (STP) including the cost of tertiary treatment level with recycling storage tank and machinery with all arrangement etc. complete in all respect. 640 KLD or (0.64 MLD) Capacity L.S.	7000000.00
		8302200.00
	Add 3% contingency & P.H. Services	249066
	Total	8551266
	Add 49% Department charges + Price Escalation	4190120
	G. Total	12741386
	Say in Lacs	127.42

(C.O. to Final Abstract of Cost)

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SUB WORK NO. III

STORM WATER DRAINAGE SCHEME

Sr. NO.	Description	Amount in Rs.
1	Providing, lowering, laying, jointing RCC pipe class Np3 with cement joint, a) RCC Np3 pipe 400mm i/d = 8.10 M @ Rs. 1500/- Per Mtr	1215000.00
2	Provision for Rain Water Harvesting arrangement including the cost of screening chamber and pit with all type of pipes and other material etc. complete in all respect as per standard drawing and bore upto requirement of site etc. 6 Nos RWH @ Rs. 2,50,000/- each	1500000.00
2	Provision for road gulley & pipe with connection	400000.00
3	Provision for lighting and watching	20000.00
4	Provision for timbering and shoring	20000.00
5	Provision for cartage of material	20000.00
6	Provision for making connection with HUDA storm water drain	150000.00
	Total	3325000.00
	Add 3% contingency & P.H. Services	99750.00
	Total	3424750.00
	Add 49% Department charges + Price Escalation	1678127.50
	G. Total	5102877.50
	Say in Lacs	51.03

(C.O. to Final Abstract of Cost)

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Sub Work No. IV

ROAD AND FOOTPATH

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for leveling & earth filling as per site conditions	Per Acre	5.5625	80000	445000
2	i) Providing and laying 100mm thick PCC under pavement, cement concrete of specified grade 1:4:8 and 150mm thick RMC grade M-40 ii) Providing and laying Bituminous road (250mm GSB, 300mm WMM, 50mm DBM, 40mm BC).	Sqm	5440	300	1632000
3	Provision for kerbs & channels of C.C. 1.2:4	Metre	750	400	300000
4	Provision for arrangement of guide map and indicating board etc.	LS			30000
5	Provision for parking arrangement with 100mm thick PCC under pavement cement concrete of specified grade 1:4:8 and 150mm thick RMC Grade M-40 or Bituminous road with 250mm GSB, 300mm WMM, 50mm thick DBM & 40mm thick BC etc. as per requirement of site for surface car parking and approach to Tower / Blocke etc. complete in all respect	Sqm	6390	300	1917000
5	Provision for carriage of material	LS			30000
	Sub Total				4354000
	Add 3% contingencies & PH Services				130620
	Sub Total				4484620
	Add 49% Departmental Charges + Price Escalation				2197464
	Total				6682084
	Say Rs. In Lacs				66.83

(C.O. to Final Abstract of cost)

Sub Work No. V

STREET LIGHTING

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Provision for Street Lighting at surrounding area as per standard specifications of HVPN etc. complete	Acre	5.5625	95000	528438
	Add 3% contingencies & PH Services				15853
	Total				544291
	Add 49% Departmental Charges + Price Escalation				266702
	Total				810993
	Say Rs. In Lacs				8.11

(C.O. to Final Abstract of cost)

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Sub Work No. VI

HORTICULTURE

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Development of Lawn Areas				
a.	Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure with all fitting and valve etc. complete				
b.	Rough dressing of turfed area				
c	Grassing with "Cynadon dactylon" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for moving in row 7.5 cm part in either direction				
d	organized green 5757.588 Sqm Or 1.43 Acres (As per detail given in green park area calculation)	Acre	1.43	100000	143000
2	Providing and planting trees along boundary @ 6 m interval (Length appx 738M) = 738/6 = 123 Nos Say No. of trees = 130 Nos Cost details : Excavation = Rs. 120 Manure = Rs. 300 Tree Plant = Rs. 900 Total Rs. = Rs. 1320				
		Each	130	1320	171600
	Total				314600
	Add 3% contingencies & PH Services				9438
	Total				324038
	Add 49% Departmental Charges + Price Escalation				158779
	Total				482817
	Say Rs. In Lacs				4.83

(C.O. to Final abstract of cost)

Sub Work No. VII

Mtc. Of services & Resurfacing of Road

S. No.	Description	Unit	Qty	Rate (In Rs.)	Amount (In Rs.)
1	Mtc. Of water supply, sewer, storm water drain, roads, street light, hort. Etc. for period of 10 years including operation charges full establishment etc. complete in all respects	Acre	5.5625	150000	834375
2	Provision for resurfacing of roads after 5 years of 1st phase with provision of 50mm thick BM including leveling coarse and 25mm BC as per crust design whichever is safer	Sqm	5440	200	1088000
3	2nd phase after next five years of 1st phase (50mm DBM & 25mm BC or as per crust design whichever is safer.	Sqm	5440	300	1632000
	Sub Total				3554375
	Add 3% contingencies & PH Services				106631
	Sub Total				3661006
	Add 49% Departmental Charges				1793893
	Total				5454899
	Say Rs. In Lacs				54.55

(C.O. to Final abstract of cost)

SUMMARY OF DESIGN REQUIREMENT

S. No.	Description	Qty	Unit
1	Total Population	4090	Persons
2	Total Water Requirement (Domestic)	509	KLD
3	Total Water Requirement (Flushing)	251	KLD
4	Total Water Requirement (Horticulture)	50	KLD
5	U. G Tank (Domestic - 260 KLD)	1	No.
6	U.G.T Fire Tank 210 KLD	1	No.
7	No. of Domestic WS pumps UGT	2+1	Set
8	STP (Capacity 640 KLD)	1	No.
9	No. of Flushing pumps	2+1	No.
10	No. of submersible pumps	1	No.
11	Main Fire Hydrant electrical pumps	1	No.
12	Diesel fire pumps	1	No.
13	Jockey fir pumps	1	No.
14	Generating sets (100 KVA)	1	100 KVA

TOTAL MATERIAL STATEMENT FOR WATER SUPPLY I.e. DOMESTIC, FLUSHING & RISING MAIN ETC.

22

S. No.	Description	Size of pipe upto valve in 100mm	Size of pipe upto valve in 150mm	Size of pipe upto valve in 200mm	Size of pipe upto valve in 250mm
1	Domestic	125 M	570 M	20 M	-
2	Flushing	160 M	560 M	-	-
3	Rising Main	370 M	-	-	-
	Total	655M	1130 M	20 M	-

23

MATERIAL STATEMENT (DOMESTIC WATER SUPPLY)

S. No.	Line Designation		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr			
	From	To			250MM	200MM	150MM	100MM
1	UGT	A	200	20	-	20	-	-
2	A	B	150	110	-	-	110	-
3	B	C	150	105	-	-	105	-
4	C	D	150	35	-	-	35	-
5	A	E	150	35	-	-	35	-
6	E	F	150	35	-	-	35	-
7	F	D	150	250	-	-	250	-
8	B	B1	100	125	-	-	-	125
	Total			715	0	20	570	125

200mm i/d Pipe Length

20 Mtr

150mm i/d Pipe Length

570 Mtr

100mm i/d Pipe Length

125 Mtr

24

MATERIAL STATEMENT (FLUSHING WATER SUPPLY)

S. No.	Line Designation		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr		
	From	To			200MM	150MM	100MM
1	STP	a	150	15	-	15	-
2	a	b	150	8	-	8	-
3	b	c	150	105	-	105	-
4	c	d	150	150	-	150	-
5	d	e	100	35	-	-	35
6	a	f	150	27	-	27	-
7	f	e	150	255	-	255	-
8	c	c1	100	125	-	-	125
	Total			720	0	560	160

150mm i/d Pipe Length

560 Mtr

100mm i/d Pipe Length

160 Mtr

25

MATERIAL STATEMENT FOR BOREWELL RISING MAINS AND HUDA MAIN

S. No.	Name of Line		Size of Pipe Provided	Length of Pipe (Mtr)	Length in Mtr	
	From	To			100mm	150mm
1	T.W.	UGT	100	60	60	-
2	Govt. Line	UGT	100	310	310	-
	Total			370	370	0

MATERIAL STATEMENT FOR SEWERAGE SCHEME

26

S. No.	Line No.		Length (In Mtr)	Pipe Dia	Av. Depth	Length in Mtr			
	From	To				200mm i/d 0 to 2.00 Mtr	250mm i/d 0 to 2.00 Mtr	300mm i/d 0 to 2.75 Mtr	400mm i/d 0 to 3.00 Mtr
1	A	B	132	250	1.49	-	132	-	-
2	B1	B	120	200	1.32	120	-	-	-
3	B	C	122	250	2.03	-	122	-	-
4	C1	C	260	250	1.48	-	260	-	-
5	C	STP	20	300	2.36	-	-	20	-
6	STP - Govt. / Sewer By Pumping 150mm i/d D.I. Pipe = 210 Mtr								
Total			654			120	514	20	0

200mm i/d Pipe Length 120 Mtr

250mm i/d Pipe Length 514 Mtr

300mm i/d Pipe Length 20 Mtr

150mm i/d D.I. Pipe (By Pumping) = 210 Mtr

27

MATERIAL STATEMENT OF STORM WATER DRAINAGE SCHEME

Sr. No.	Line Reference		400mm i/d RCC Np3 Pipe Length in Mtr
	From	To	
1	A	B	40
2	B	C	135
3	C4	C3	95
4	C3	C2	135
5	C2	C1	45
6	C1	C	110
7	C	D	75
8	D1	D1	70
9	D	Govt. SWD (HSVP)	105
	Total Length		810

Total Length 400mm i/d RCC Np3 pipe = 810 Mtr

Total Rain Water Harvesting (RWH) = 6 Nos

Material Statement of Road Works

Sr. No.	Road No.	Road Width	Length	Width	Area	
1	1	6.00	240.00	6.00	1440.00	Sqm
2	2	6.00	42.00	6.00	252.00	Sqm
3	3	6.00	240.00	6.00	1440.00	Sqm
4	4	6.00	42.00	6.00	252.00	Sqm
5	5	6.00	126.00	6.00	756.00	Sqm
6	6	12.00	23.00	5.50	126.50	Sqm
7	7	3.36	17.00	3.36	57.12	Sqm
	G. Total		730.00		4323.62	Sqm
Add 5% extra for curves					216	Sqm
Total					4539.80	Sqm
					Say 5440	Sqm

ii) Kerbs & Channels

6 Mtr wide Road	690 Mtr
12 Mtr wide Road	23 Mtr
Total	713 Mtr
Add 5% for curves	36 Mtr
G. Total	749 Mtr
Say	750 Mtr

II) PARKING :-

(i) Surface Car Parking = 511 Nos
 Area = 511 Nos x 2.50 Mtr x 5.00 Mtr = 6387.50 Sqm

Say 6390 Sqm

29

MATERIAL STATEMENT (FIRE FIGHTING)

S. No.	Line Reference		Length in Mtr	Size of M.S. Pipe 150mm i/d Fire Rising	Remarks
	From	To			
				150mm	
1	UGT	A	20	20	
2	A	B	75	75	
3	B	C	270	270	
4	C	D	55	55	
5	A	E	105	105	
6	E	F	130	130	
7	F	G	23	23	
8	G	H	52	52	
9	H	D	100	100	
10	E	C	140	140	
	Total		970	970	

- i) Length of 150mm i/d M.S. Pipe = 970 Mtr
ii) Length of 100mm i/d F.H. = 28 X 6 = 168 Mtr
iii) Nos of F.H. = 28 Nos

SUBHEAD : IRRIGATION WATER SUPPLY SCHEME - DESIGN CALCULATION (HORTICULTURE)

HYDRAULIC STATEMENT OF IRRIGATION WATER SUPPLY

S. No.	Line Reference	Population	Peak Flow in LPH	Velocity (m/s)	Size of the pipe required (in mm)	Size of the Pipe Recommend (mm)	Hydraulic Radius	Total Friction Loss (in m/m)	Length (M)	Loss of Head in Line (M)	Formation Level	Available head (M)
1	From Flushing Water Supply line	50000	-	-	25.00	25	-	-	180	-	-	-

Note :- 30 Nos connections are to be done from flushing water supply line i.e. 30 Nos x 8 Mtr/each = 180 Mtr for 25mm I/d

HYDRAULIC STATEMENT OF WATER SUPPLY (DOMESTIC)

SUBHEAD : DOMESTIC WATER SUPPLY SCHEME - DESIGN CALCULATION

Sl. No.	Tie Reference	Tower No.	Tie / Line			Population @ 5 Person per flat	Water Requirement @ 172.50 LPCD	Other Water Requirement i.e. Commercial / Community Centre and Anganwadi in LPD	Total Water Requirement in LPD	Water Requirement @ 67% of total water requirement	Peak Flow in LPH	Velocity (m/s)	Size of the pipe in (mm)	Total Friction Loss in m/m	Length in (M)	Loss of Head in (M)	Furnishing Level at Lower End	Available Head at Lower end (M)	Terminal Head (M)	Remarks
			3rd	5	7															
1	2	4				8	8	8	12	13	0.24	15	1.6	17	18	19	20	21	22	
1	1027 A	1 to 77 Common etc.		818	818	4090	705225	48270	753515	509008	118388	0.78	200	0.005	20	0.04	228.50	303.45	74.95	Friction Loss in Water Works i.e. LGT = 230.55 M Floating Head = 75.00 M Hydraulic head = 305.55 M
2	A	1 to 6 Common etc.		118	118	594	102525	68720	171245	115875	48570	0.62	100	0.005	10	0.52	230.30	304.00	74.00	
3	B	5, 7, Common etc.			118	594	102525	75000	177525	118518	48570	0.78	150	0.005	10	0.58	230.40	304.02	74.20	
4	C	Common etc.					20000	20000	20000	8225	0.29	150	0.001	15	0.29	218.50	304.05	74.15		
5	A	1 to 7 Common etc.		818	818	4090	705225	48270	753515	509008	118388	0.78	200	0.005	20	0.40	230.50	305.27	74.72	
6	E	1 to 7 Common etc.		818	818	4090	705225	48270	753515	509008	118388	0.78	200	0.005	20	0.40	230.70	305.09	74.39	
7	F	1 to 7 Common etc.		818	818	4090	705225	48270	753515	509008	118388	0.78	200	0.005	20	0.37	230.50	303.94	73.34	
8	G	Common etc.					20000	20000	20000	8225	0.28	100	0.003	12.5	0.22	230.28	304.52	74.32		

**HYDRAULIC STATEMENT OF WATER SUPPLY (FLUSHING) RECYCLING OF TREATED SEWAGE WATER
SUBHEAD : FLUSHING WATER SUPPLY SCHEME - DESIGN CALCULATION**

S. No.	Unit Reference No.	Tower No.	Unit / Fltr				Population @ 5 Person per Hl.	Water Requirement @ 177.50 LPCD	Other Water Requirement i.e. Commercial, Community Centre / Anganwadi In LPD	Total Water Requirement in LPD	Water Requirement @ 33% of total water requirement	Peak Flow in LPH	Velocity (m/s)	Size of pipe in (mm)	Total Friction Loss in (M/M)	Length in (M)	Loss of Head in Line (M)	Formation Level at Lower End	Available Head at Lower end (M)	Terminal Head (M)	Remarks
			Sdfl	Branch	Total	Fltr															
1	A	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
1	51P	1 to 7* column + other	0	818	818	8000	701525	48220	74745	24756	9372	0.62	130	0.105	15	0.01	230.40	355.37	74.37	Formation Level at 31P = 236.45 M Roosting Head = 25.00 M	
2	A	1 to 7 column + other	0	409	409	2045	852763	48220	110982	325724	97106	0.43	150	0.003	8	0.02	230.40	165.33	74.01	Flushing hydraulic Head at 51P = 315.15 M	
3	B	1 to 7 column + other	118	291	409	2045	352763	48220	300983	325724	47146	0.43	150	0.003	105	0.22	230.30	165.00	74.73		
4	C	1 to 7	291	0	291	1463	300988	0	325888	101036	31319	0.44	140	0.002	100	0.30	230.35	164.73	74.18		
5	D	-	0	0	0	0	0	0	0	0	0	0.33	300	0.002	35	0.07	230.70	304.66	72.56		
6	F	1 to 7 column + Avg	0	409	409	2045	852763	20000	122763	122572	48129	0.43	150	0.003	27	0.08	230.50	305.29	76.78		
7	E	1 to 7 column	409	0	409	2045	352763	0	352763	118412	48628	0.43	150	0.003	245	0.78	230.70	304.33	73.83		
8	C1	column	0	0	0	0	0	21220	23220	7683	2875	0.31	300	0.002	125	0.25	230.30	304.78	74.58		

DESIGN STATEMENT OF SEWERAGE SCHEME

Sl. No.	Line Reference	Flower No.	Units / Flat	Population @ 5 person per flat	Water Requirement (lit @ 372.56 LPCD)	Other Requirements (La. comm. / community building / Argarhaus)	Total Water Requirement	Sew. Quantity after treatment in liters @ 1000 l/pcd	Sewerage Discharge Peak flow (m ³ /hr)	Dia of pipe in (mm)	Slope in (in 100)	Velocity (m/sec)	Carrying capacity of pipe (m ³ /hr)	Length in Meter	FOS = Extra Fall in line due to slope (m)	Ground level		Formation Level		Invert Level		Depth		
																Start	End	Start	End	Start	End	Start	End	Start
1	2	1	5	25	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	A	1 to 7	251	1255	205887	0	205887	201750	0.0020	250	0.02	0.76	0.015	112	45.40 (0.03)	210.20	229.30	230.55	230.30	228.53	228.53	229	1.78	1.08
2	B1	#	-	-	0	23220	23220	16576	0.0006	200	0.20	0.76	0.012	120	0.53	229.85	229.85	230.20	231.30	229.30	228.67	1.60	1.63	1.32
3	B	1 to 7	251	1255	352763	28220	380982	304786	0.0166	250	0.05	0.76	0.015	122	0.46	229.80	236.10	230.30	230.60	228.52	228.12	1.78	2.28	2.08
4	C1	1 to 7	409	2045	352763	10000	372762	298710	0.0189	250	0.05	0.76	0.015	200	0.85	230.30	230.10	230.70	230.60	228.50	228.55	1.20	1.25	1.48
5	C	1 to 2	408	2040	205225	48200	253425	101276	0.0289	300	0.05	0.76	0.022	20	0.50	230.10	230.15	230.40	230.05	228.09	228.04	2.31	2.41	2.16
W	STP	GOVT Sewage Unit.												210	1.10	230.15	229.75	230.45	229.50	228.35	227.65	1.50	1.50	1.33

150mm (d) Dia. Pipe (for pumping) From STP to G.O. Sewer line

DESIGN CALCULATION OF STORM WATER DRAINAGE SCHEME
 INTENSITY OF RAIN FALL = 0.106 MTR /HR
 IMPERMEABILITY FACTOR = 0.6

Name of Note	Area (Self) SQM	Area (Self) In Acre	Branch Area In Acre	Total Area In Acre	Total Area Hectoz	Rain fall mm / hr.	Discharge @ 17.36 LPS/Hectoz	Length In Mtr	Pipe dia In mm	Slope In Mtr	Velocity In m/sec	Cap. of drain IN LPS	Fall + Extra Fall IN Mtr	Ground Level		Formation Level		Invert Level		Depth of M.H.'s		Average depth	Remarks
														Start	End	Start	End	Start	End	Start	End		
1	4	5	0	9	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
A	822	0.20	0	0.20	0.08	6.00	1.38	60	400	5/70	0.76	98.57	0.07	230.30	230.20	230.70	230.55	229.70	229.13	1.50	1.42	1.46	
B	5000	1.24	0.2	1.44	0.58	6.00	10.06	135	400	5/70	0.76	98.57	0.24	230.70	229.80	230.55	230.30	229.13	228.52	1.42	1.41	1.42	RWH-4
C	2400	0.59	0	0.59	0.24	6.00	4.17	95	400	5/70	0.76	98.57	0.17	230.30	230.40	230.70	230.60	229.30	229.01	1.50	1.57	1.54	RWH-1
D	4100	1.06	0.59	1.65	0.67	6.00	11.38	133	400	5/70	0.76	98.57	0.34	230.40	230.30	230.60	230.50	229.45	228.79	1.57	1.71	1.64	RWH-2
E	3352	0.83	1.85	1.98	0.80	6.00	13.91	45	400	5/70	0.76	98.57	0.08	230.30	230.05	230.40	230.40	228.79	228.71	1.71	1.85	1.70	
F	3300	0.82	1.98	2.80	1.13	6.00	19.87	110	400	5/70	0.75	98.57	0.19	230.05	229.80	230.40	230.30	228.71	228.52	1.68	1.78	1.74	RWH-3
G	1500	0.37	4.74	4.61	1.87	6.00	32.39	75	400	5/70	0.76	98.57	5-0.83	229.80	229.85	230.30	230.25	228.52	227.89	1.78	2.36	2.07	RWH-5
H	2800	0.69	0	0.69	0.28	6.00	4.85	70	400	5/70	0.76	98.57	0.12	230.05	229.85	230.35	230.25	229.85	228.73	1.50	1.52	1.51	
I	2050	0.52	5.3	5.56	2.25	6.00	39.06	105	400	5/70	0.76	98.57	0.18	229.85	229.75	230.25	229.65	227.89	227.71	2.36	1.89	2.13	RWH-6

DETAIL OF AREA STATEMENT table with columns: Part, Area, Sqm to 1 Acre, Area in Sqm, Sqm, Total P.P., Total HWT, Total Prop. Covd. Area of P.A.R., Total Prop. Covd. Area of P.A.R. + STAIR, COMM. + ANGAHWARI, Total Prop. Covd. Area of P.A.R. + STAIR, COMM. + ANGAHWARI + STAIR WELL. Includes sub-sections for COMMERCIAL, RESIDENTIAL, ANGAHWARI, STAIR, and PARKING.

AREA CALCULATION OF MUMITYS & MACH ROOM 3BHK TOWER-1 TO 5 table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF MUMITYS/MACH. RM., TOTAL AREA.

AREA CALCULATION OF MUMITYS & MACH ROOM-1 BHK TOWER-6 TO 7 table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF MUMITYS/MACH. RM., TOTAL AREA.

AREA CALCULATION OF STAIR WELLS TOWERS-1 TO 5 table with columns: L, B, AREA IN SQM, TOTAL NOS. OF STAIR WELLS, TOTAL AREA.

AREA CALCULATION OF STAIR WELLS TOWERS-6 TO 7 table with columns: L, B, AREA IN SQM, TOTAL NOS. OF STAIR WELLS, TOTAL AREA.

AREA CALCULATION OF MUMITYS & MACH ROOM (ANGAHWARI & COMMUNITY CENTRE) table with columns: RECT. NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF MUMITYS/MACH. RM., TOTAL AREA.

AREA CALCULATION OF MUMITYS & MACH ROOM (COMMERCIAL) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF MUMITYS/MACH. RM., TOTAL AREA.

AREA CALCULATION OF STAIR WELLS (COMMERCIAL) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF STAIR WELLS, TOTAL AREA.

AREA CALCULATION OF BALCONY (UNIT-A, B & C) (BHK) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF BALCONYS, TOTAL AREA.

AREA CALCULATION OF BALCONY (UNIT-D) (BHK) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF BALCONYS, TOTAL AREA.

AREA CALCULATION OF STAIR WELLS TOWERS-1 TO 5 table with columns: L, B, AREA IN SQM, TOTAL NOS. OF STAIR WELLS, TOTAL AREA.

AREA CALCULATION OF STAIR WELLS TOWERS-6 TO 7 table with columns: L, B, AREA IN SQM, TOTAL NOS. OF STAIR WELLS, TOTAL AREA.

AREA CALCULATION OF BALCONY (UNIT-D) (BHK) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF BALCONYS, TOTAL AREA.

AREA CALCULATION OF BALCONY (UNIT-E) (BHK) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF BALCONYS, TOTAL AREA.

AREA CALCULATION OF STAIR WELLS (COMMERCIAL) table with columns: NOS., NOS., L, B, AREA IN SQM, TOTAL NOS. OF STAIR WELLS, TOTAL AREA.

DETAIL OF FLOOR LEVELS table with columns: FLOOR, AREA IN SQM, TOTAL AREA. Lists floors from GROUND to ROOF.

DETAIL OF FLOOR LEVELS table with columns: FLOOR, AREA IN SQM, TOTAL AREA. Lists floors from GROUND to ROOF.

DETAIL OF FLOOR LEVELS table with columns: FLOOR, AREA IN SQM, TOTAL AREA. Lists floors from GROUND to ROOF.

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DETAIL OF FLOOR LEVELS table with columns: FLOOR, AREA IN SQM, TOTAL AREA. Lists floors from GROUND to ROOF.

ROADS

PROPOSED BUILDING PLAN OF AFFORDABLE GROUP HOUSING COLONY OVER AN AREA MEASURING 5.5625 ACRES... ROAD NO. 5 = 12.6 m... ROAD NO. 1 = 12.6 m... ROAD NO. 2 = 240 m... ROAD NO. 3 = 240 m...

DETAIL OF TOWER COVERAGE AREA FOR EACH table with columns: TOWER, TYPE, TYPE A, TYPE B, TYPE C, TYPE D, TYPE E, TYPE F, TYPE G, TYPE H, TOTAL NO. OF FLATS. Includes towers 1 through 7.

DETAIL OF CARPET AREA FLOOR/TOWER/WELL table with columns: SL. NO., FLOOR, NO., AREA, TOTAL, NO., AREA, TOTAL, NO., AREA, TOTAL, NO. OF COVERS, CARPET AREA. Includes towers 1 through 7.

DETAIL OF CARPET AREA FLOOR/TOWER/WELL table with columns: SL. NO., FLOOR, NO., AREA, TOTAL, NO., AREA, TOTAL, NO., AREA, TOTAL, NO. OF COVERS, CARPET AREA. Includes towers 1 through 7.

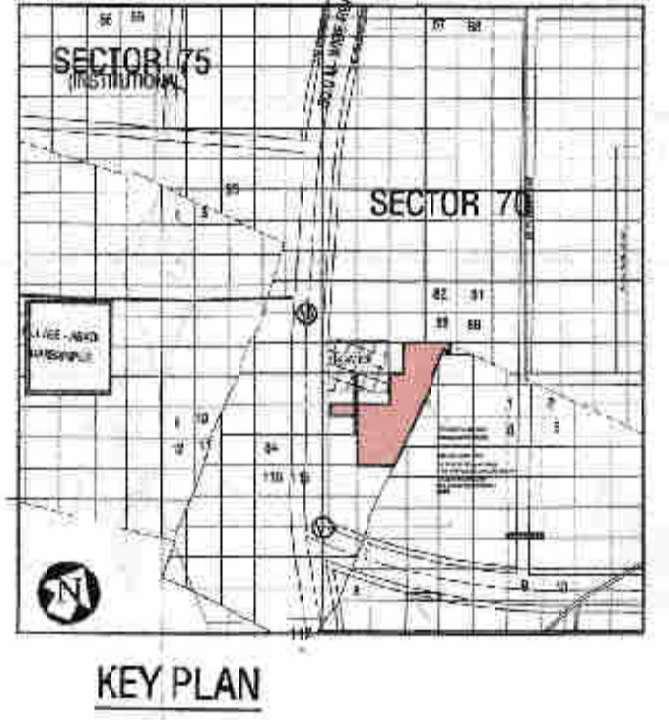
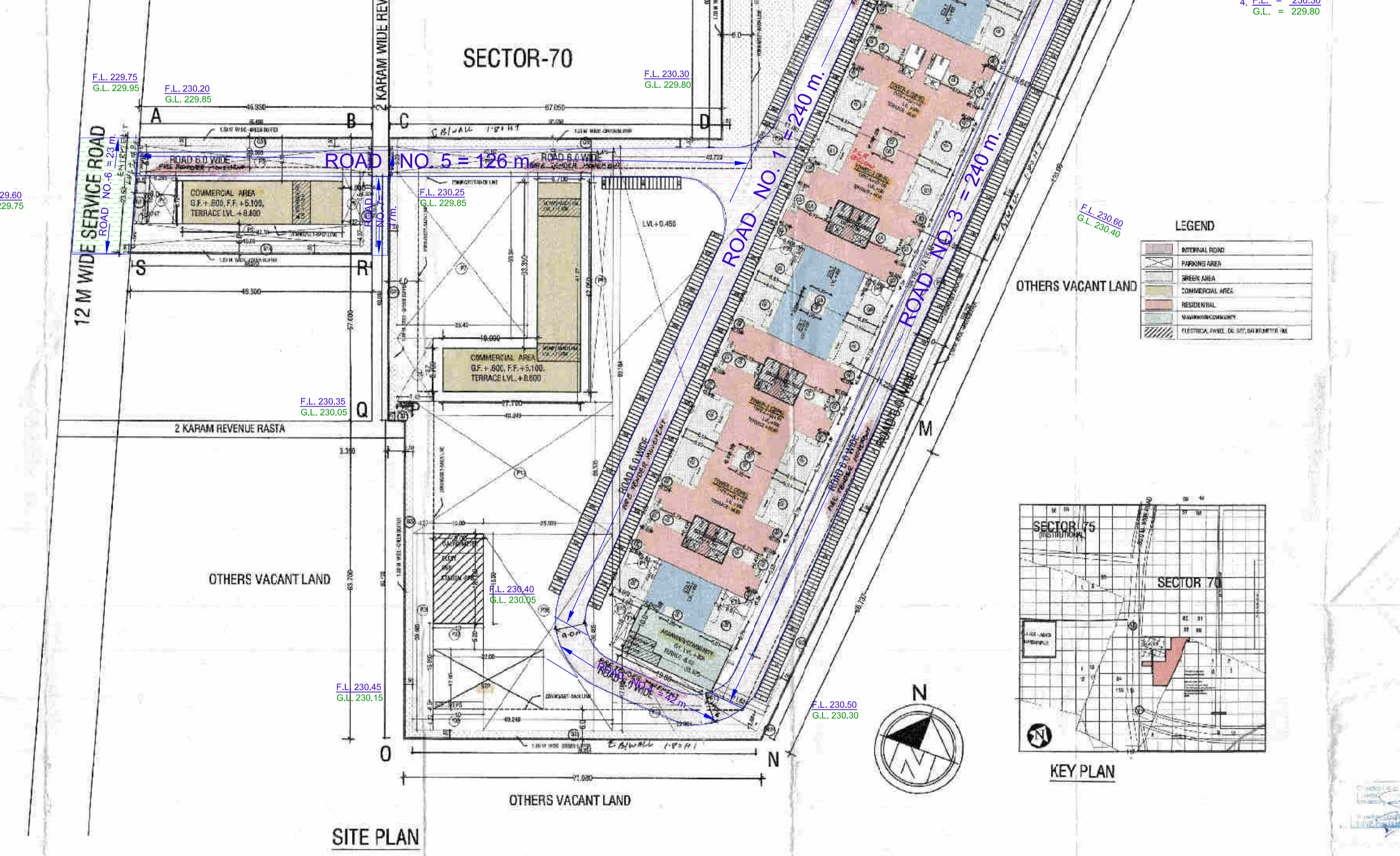
DETAIL OF CARPET AREA FLOOR/TOWER/WELL table with columns: SL. NO., FLOOR, NO., AREA, TOTAL, NO., AREA, TOTAL, NO., AREA, TOTAL, NO. OF COVERS, CARPET AREA. Includes towers 1 through 7.

DETAIL OF PLATS TOWER & FLOORWISE table with columns: SL. NO., FLOOR, TOWER-1, TOWER-2, TOWER-3, TOWER-4, TOWER-5, TOWER-6, TOWER-7, TOTAL PLATS. Includes towers 1 through 7.

NOTE:- THE RESPONSIBILITY TO THE STRUCTURAL DESIGN AND STRUCTURAL STABILITY OF THE BUILDING BLOCK SHALL BE SOLELY OF THE ARCHITECT/STRUCTURE ENGINEER'S/OWNER.

SECTOR-75 60 MT. WIDE SECTOR ROAD

SECTOR-70



- LEGEND:- 1. 12.00 M. WIDE SERVICE ROAD 2. 6.00 M. WIDE SERVICE ROAD 3. 3.38 M. WIDE REVENUE RASTA 4. F.L. = 230.30 G.L. = 228.80

PROPOSED BUILDING PLAN OF AFFORDABLE GROUP HOUSING COLONY OVER AN AREA MEASURING 5.5625 ACRES (LIC. No.109 Of 2019, Dated 11.09.2019) IN THE REVENUE ESTATE OF VILLAGE BAADSHAH PUR, SECTOR-70, GURUGRAM BEING DEVELOPED BY RAM AVTAR & OTHERS

SITE PLAN, DETAIL OF AREA, ENGINEER SIGNATURE, OWNER'S SIGNATURE, ARCHITECT'S SIGNATURE

PROJECT NO. RA-5023, SCALE: 1:400, DATE: SEPT-2019, ARCHITECTS: RAO AND ASSOCIATE

