

AFFORDABLE GROUP HOUSING COLONY FOR AN AREA MEASURING 7.5375 ACRES (LICENCE NO.34 OF 2020 DATED 30.10.2020 AND LICENCE NO. 160 OF 2022 DATED 04.10.2022) IN SECTOR-81, GURUGRAM, HARYANA

DEVELOPED BY M/S GLS INFRACON PVT LTD.

ESTIMATE FOR PROVIDING WATER SUPPLY,SEWERAGE, STORM WATER DRAINAGE, ROADS,STREET LIGHTING AND HORTICULTURE IN RESPECT OF 7.5375 ACRES AFFORDABLE GROUP HOUSING COLONY IN SECTOR-81, GURUGRAM, HARYANA.

Gurugram is situated in the southeastern part of the state Haryana and northern part of the country. It is a part of the National Capital Region (NCR) of Delhi. Its proximity to the burgeoning city of Gurgaon has in recent years caused its character and demographics to change dramatically. It has many factories, offices, hotels, IT parks and educational institutes. There are several sightseeing spots around the area, some overlapping with Gurugram.

PROJECT REPORT/ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 7.5375 ACRES AFFORDABLE GROUP HOUSING COLONY IN SECTOR-81, GURUGRAM, HARYANA.

The Haryana Government has prepared a master plan for development of Residential/Industrial/ Commercial Gurugram urban Manesar Complex. Project is developed by M/S GLS Infracon Pvt Ltd. They have decided to develop the area in this master plan as a Group Housing colony and has named this part as Proposed Affordable Group Housing Colony for an area measuring 7.5375 Acres in Sector-81 Gurugram, Haryana.

Water Supply

1

Source

The source of water supply in this area is from **HSVP** how ever tubewells shall be proposed for Emergency if permission will get from CGWA. At present water supply is from HSVP municipal supply and tanker supply is sweet and fit for human consumption. However in borewell water is available at reasonable depth. The average yield of tubewell with 40-45 ft strainers will be about 20,000 litre per hour. The recharging of underground water table in this belt is stated to be good. However still we shall resort to rain water harvesting system to keep up the recharging system. The number of tubewells required for the above area has been worked out and the tubewells will be bored after the permission from CGWA in tune with growth of demand. The ultimate requirement of tubewells includes provisions of 10% stand by. Ultimately, water shall be supplied to the Project by **HARYANA SHAHARI VIKAS PRADHIKARAN, GURUGRAM, HARYANA.**

2

Design

The scheme has been designed for approved population of **5200 persons in 7.5375 acres**. The rate of water supply per head per day has been taken as 172.5 litres (150+15%) as per NBC 2016 / HSVP norms. in addition to above necessary provision of water for community area, commercial area, parks etc. have been taken into account for calculating the maximum quantity of water requirement..



3 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. Generator will be provided separately or added to the capacity of main generator.

4 Under Ground Storage

Underground storage tank provision has been made for **800KL** capacity. in 6 compartments, which caters for the raw, domestic as well as for firefighting requirement. The water from fire compartment shall overflow to the raw water compartment so that the water in the fire compartment always remain fresh.

5 Boosting Station

A boosting station having monoblock centrifugal pump set is planned near under ground reservoir to pump water from domestic/ treated under ground water tank to over head water tank provided at individual plot terrace.

6 Distribution System

The distribution system for this development has been designed to supply @ 172.5 litre per head per day @ 2.5 times the average rate of flow on 'Hazen william' formula with C-140. Necessary provision for laying D.I. pipe K-7 conforming to relevant IS standards along with valves and specials has been made in the project. The minimum terminal head at any point will be more than 70 meters so that it can serve the stilt and fourteenth floors construction envisaged in the plan. Minimum pipe dia for distribution is kept as 100 mm dia for domestic water supply.

7 Rising Mains

Rising mains from HSVP water main or sector road to water works have also been designed and provision for 100 mm dia D.I. pipe line (dia as/ design) has been made in this estimate.

8 Sewerage

This scheme is designed for sewer connecting to the proposed sewage treatment plant. The sewage system has been marked on the respective plans.

The sewer lines have been designed for 3 times average DWF in relation to the water supply demand assuming that 80% of water supply shall find its way into the proposed sewer. DWC HDPE SN8 pipe sewers have been proposed and designed to run half full. The sewers have been designed on 0.75 M per second minimum velocity i.e. self cleansing velocity Necessary provision for laying DWC HDPE SN8 pipes and manholes etc. has been made in this estimate.

Size/ Shape of Manholes

As per IS 4111:1986 "Circular type of manholes are much stronger than rectangular and arch type manholes thus these type of manholes are preferred over rectangular as well as arch type manholes. However both rectangular and circular type of manholes are proposed to be provided. The brick masonry rectangular manhole is proposed to be provided for depth upto 0.9m.

The brick masonry/ concrete circular manholes are proposed to be provided for all depth exceeding 0.9 m upwards. Circular manholes are straight down in lower portion and slanting on top portion so as to narrow down the top opening equal to internal dia of manhole cover. Depending on the depth of manhole, brick circular manhole of dia 910, 1220, 1520, 1820 mm dia are proposed to be provided.



9 Storm Water Drainage

The storm water is designed to carry 6.25 mm rainfall per hour or 0.123 cusecs per acre as discharge. Also suitable provisions are contemplated in our scheme to ensure better recargung of underground water table in the area. Underground R.C.C. pipe drain with minimum 400 mm dia are proposed to be provided in this area with circular manhole.

Necessary design statement for entire storm water system has been prepared and attached with estiamte.

10 Rain Water Harvesting

The main emphasis on recharging the underground aquifers and safe disposal of storm water with flooding the site has been laid in designing/ planning of storm water drainage system. Modular Type rain water harvesting are proposed to be provided.

11 Roads

The roads are proposed to be provided in the plotted development in such a way that 6 m wide motorable fire tender road connects the colony with sector road. Internal service of the roads of the colony 6m wide motorable fire tender road provide approach for construction of roads to the Group Housing. Detailed calculation of the various item of works have been made on the basis of the detail design of the roads as approved by Chief Engineer HSVP, Gurugram.

12 Street Lighting

Street lighting system has been designed to provide illumination of 25 to 35 lux on roads. Street lights are provided on 6 m high steel tubular poles are located on one side of 6.0 m wide road. Luminaries with 60 watts LED Light are proposed to be provided for achieving the desired illumination.

13 Horticulture

Provision of road side plantation of trees with tree guards has been made for all roads. The parks shall be developed by providing lawns & ornamental trees with tree guards.

14 Specifications :

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

15 Rates

Estimate for providing services in this pocket has been prepared on the recent HSVP rates.



16 Cost

The total cost of development in this project including various P.H. and B & R services works out to **Rs. 1253.68 Lacs** which includes 3% contingency and PE charges and 49% departmental charges also.

The cost per gross acre for this phase works out to App. **Rs. 166.33 Lacs/acre** which covers the provision of services like water supply, sewerage, storm water drainage, roads, street lighting and plantations including plantations maintenance thereof as well as future expansion whatsoever indicated.

DESIGN CALCULATION

Daily water requirement

Total No. of Dwelling Unit

For 7.5375 Acres

Acres

1040

Unit

Nos

Population per Dwelling Unit

5

Person/Plot

1 Therefore population (General)

SAY

5200
5200

Persons
Persons

Total daily Water requirement for plots (150 LPCD + 15%)

@

172.5

LPCD

Domestic @ 65% Flushing @ 35%

583050.00

LPD

Or Say

583.10

KLD (1)

2 Non Residential building water requirement

a No. of commercial area

Daily water requirement

Area of commercial

Daily water requirement

Therefore daily water requirement

2

No.

Ltrs/Acre/day

32000

Acre

20800

11200

7815.01

14513.59

Or Say

14.51

7.82

Ltrs/Acre/day

lit/day

KLD

b No. of community hall and anganwadi cum creche

Area of community center

Daily water requirement

Daily water requirement

1

No.

Acre

lit/acre/day

25000

1568.04

844.33

1.57

Or Say

0.84

Total 2 (a+b)

16.08

8.66

KLD (2)



Ltrs/Acre/day
lit/day
KLD



lit/day

KLD

KLD (2)

Head of pump
i) Suction lifts
ii) Friction loss in M<main & specials
iii) Clear head
Say
BHP of motor (630x100)/(60x75x0.6)

= 4.0
= 12.0
= 83.2
= 99.2
= 100.0

= 23.33
Or Say 25.0

VII	Gen Set	Nos.	HP			
	Pumps for Domestic Tank	2	25.0		50	HP
	Main Fire Pump (Dead load)	1	100.0			
	Jockey Pump	2	15.0		30	HP
	Pumps for Flushing Tank	2	15.0		30	HP
	Garden Irrigation Pump	1	2.5		2.5	HP
	Tubewell	2	7.5		15	HP
	WTP	1	25.0		25	HP
	STP Plant	1	60.0		60	HP
	External light, Lift & common area				185	HP
					398	HP
					444.8	KVA

or 398 x 0.746 x 1.50
Say

250 KVA-2 no.

5 Sewage Treatment Plant capacity
Gross domestic + Flushing water requirement/day

Sewage flow will be 80% of total load

Add 5% margin

STP Capacity (Or Say)

VIII BOOSTING MACHINERY (Flushing water)

STP

Daily requirement for Flushing use
Assuming 8 hours running 2 pumps (with one standby)
Discharge/hour

Head of pump

= 921.8
= 737.5
= 774.35
= 780.00
= 322.66
= 20.17
= 336.10
Or Say 340.00



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- i) Suction lifts
- ii) Friction loss in M<main & specials
- iii) Clear head

= 4.0 m
 = 12.0 m
 = 83.2 m
 = 99.2 m
 = 100.0 m

Say

BHP of motor (340x100)/(60x75x0.6)

= 12.59 HP
 Or Say 15.0 HP

IX BOOSTING MACHINERY (Irrigation water)

STP

Daily requirement for Irrigation use
 Assuming 6 hours running 1 pumps (with one standby)
 Discharge/hour

= 28.85 KLD
 = 4.81 KL/HR
 = 80.13 LPM
 Or Say 100.00 LPM

Head of pump

- i) Suction lifts
- ii) Friction loss in M<main & specials
- iii) Clear head

= 4.0 m
 = 12.0 m
 = 15.0 m
 = 31.0 m
 = 35.0 m

Say

BHP of motor (100x35)/(60x75x0.6)

= 1.30 HP
 Or Say 2.5 HP



FINAL ABSTRACT OF COST

Amount (Lacs.)
For 7.5375 Ac
343.00

Sub Work 1- Water Supply

Sub Work 2- Sewerage

Sub Work 3- S.W. Drainage

Sub Work 4- Roads

Sub Work 5- Street Lighting

Sub Work 6- Horticulture

Sub Work 7- Maintenance of services for 10 years including resurfacing of roads after 1st 5 years &
II. Phase i.e. 10 years maintenance (as per HSVP norms)

TOTAL
COST / ACRE

238.70

103.46

270.74

28.92

6.19

262.67

1253.68
166.33



WATER SUPPLY HEAD

Sub Head 1- Head Works

Sub Head 2- Pumping Machinery

Sub Head 3- Distribution System

Sub Head 4- Irrigation scheme

Total

Add 3% Contingencies & PE Charge

Add 49% Departmental Charges

(CO to final abstract of cost)

**Amount (Lacs.)
For 7.5375 Ac**

79.00

100.10

34.58

10.04

223.72

6.71

230.43

112.91

343.34

TOTAL

343.00

SAY



Sub Head I

**Water Supply
Head Works
Rs.(lakhs)**

S. No.	Description	Unit	Qty	Rate	Amount
1	Boring and installing 510 mm i/d tubewells with reverse/direct rotary rig complete with pipe strainer to a depth of about 80m. complete.	Nos.	2	1000000.00	20.00
2	Constructing pump chambers as per standard design of PWD PH/HSVP of size 1.50x1.50 m.	Nos.	2	100000.00	2.00
3	Construction of boosting chambers of suitable size along with under ground tank pumping machinery and generating set etc. complete in all respects. Details of boosting station				
i)	construction of boosting chamber	LS		500000.00	5.00
ii)	construction of UG Tank	KL.	800	6000.00	48.00
4	Provision for carriage of material and other unforeseen	LS		200000.00	2.00
5	Provision for facilities staff for Maintenance.	LS		200000.00	2.00
(C.O. to abstract of cost of Sub-work No.I)				TOTAL	79.00
				SAY	79.00



Sub Work I
Sub Head No. II

Water Supply
Pumping Machinery
Amount (Rs.)
(in Lakhs)

S. No.	Description	Unit	Qty	Rate	
1	Providing and installing electricity driven electro or submersible pumping set capable of delivering about 20 KL water per hour against a total head of 60 M complete with motor and other accessories.	Nos.	3	200000.00	6.00
2	Provision for cheap pressure type chlorination plant complete.	LS		100000.00	1.00
3	Provision for making foundations & erection of pumping machinery.	LS		100000.00	1.00
4	Provision for pipes, valves & specials inside the pump chamber.	LS		100000.00	1.00
5	Provision for electric services connection including electric fittings for tubewells chambers complete. Including cost of trasfermer.	LS		200000.00	2.00
6	Providing and installing electricity driven domestic pumping set for transfer of water from UGT to OHT of all tower, capable of delivering 630 LPM of water at 100M head complete in all respects. (25HP) (2 working + 1 standby)	Nos.	3	350000.00	10.50
7	Providing and installing electricity driven flushing pumping set for transfer of water from UGT to OHT of all tower, capable of delivering 340 LPM of water at 80M head complete in all respects. (15HP) (2 working + 1 standby)	Nos.	3	220000.00	6.60

10.50

6.60

10.50

6.60

10.50



8	Providing and fixing fire pumps Electric operated pumps 2850 LPM-2 nos., Jockey Pump-2 nos., Diesel operated pumps 2850 LPM-2 nos. complete with all the accessories suction and delivery header etc	LS	2100000.00	21.00
9	Provision of diesel generator set of each for standby arrangements for services complete with gear head arrangements of following capacities 250 KVA- 2 nos.	Per KVA	500	50.00
10	Provision for carriage of materials and other unforeseen items.	LS	1000000.00	1.00
(C.O. to abstract of cost of Sub-work No.I)			TOTAL	100.10
			SAY	100.10

HP
Consultant

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Signature

011-40583830



Sub Work I
Sub Head No. III

Water Supply
Distribution System/Rising Main

S. No.	Description	Unit	Qty	Rate	IN LACS
1	Providing, laying, jointing & testing D.I. K-7 pipes including cost of excavation complete as per ISI marked. (For Domestic Tubewell water supply line)				
i)	100 mm dia	M	763	1475.00	11.25
2	Providing, laying, jointing & testing D.I. K-7 pipes including cost of excavation complete as per ISI marked. (For Tubewell water supply line)				
i)	100 mm dia	M	110	1475.00	1.62
3	Providing, laying, jointing & testing uPVC pipes SH-80 conforming to IS 4985 including cost of excavation complete as per ISI marked. (For Flushing supply line)				
i)	80 mm dia	M	762	800.00	6.10
4	Providing and fixing sluice valves including cost brick masonry chambers complete in all respects.				
i)	100 mm i/d	Nos.	7	25000.00	1.75
5	Providing, fixing and testing butterfly valves including cost of valve chambers complete in all respects.				
i)	80 mm i/d	Nos.	6	15000.00	0.90
6	Providing and fixing 100 mm dia NRV including cost of valve chambers complete in all respects.				
i)	80 mm dia	Nos.	1	20000.00	0.20
ii)	100 mm dia	Nos.	1	25000.00	0.25
7	Providing and fixing air valves and scour valves including cost of valve chambers complete in all respects.				
		Nos.	2	10000.00	0.20



8	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.	17	1000.00	0.17
8	Provision for carriage of material	LS		300000.00	3.00
9	Provision for cutting the roads and making to its original condition	LS		300000.00	3.00
10	Providing and fixing fire hydrants complete with masonry chambers.	Nos.	17	15000.00	2.55
11	Making water supply connection	LS		300000.00	3.00
12	Provision for rising main from HSVP water supply line to UG Tank				
i)	100 mm dia	M	40	1475.00	0.59
	(C.O. to abstract of cost of Sub-work No.I)			TOTAL	34.58
				SAY	34.58



HSP
Construction
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SHAL, NEW DELHI 110030

Signature



Sub Work I

Sub Head No. IV

**Water Supply
Irrigation**

S. No.	Description	Unit	Qty	Rate	IN LACS
1	Providing, laying, jointing & testing uPVC SH-80 pipe line conforming to IS 4985 including cost of excavation complete in all respect.				
i)	25 mm dia	M	20	400.00	0.080
ii)	65 mm dia	M	901	750.00	6.758
2	Providing and installing electricity driven Garden irrigation pumping set for transfer of water from STP to Green Area, capable of delivering 100 LPM of water at 35M head complete in all respects. (2.5HP) (1 working + 1 standby)	Nos.	2	120000.00	2.40
3	Providing & fixing 20 mm PVC Irrigation hydrant valve with PVC lid complete in all respect including cot of PVC keys	Nos.	20	3500.00	0.70
4	Provision for carriage of material	LS		10000.00	0.10
(C.O. to abstract of cost of Sub-work No.I)					
				TOTAL	10.04
				SAY	10.04



Sewerage Scheme

Sub Work II

S. No.	Description	Unit	Qty	Rate	in Lacs
1	Providing, lowering, jointing, cutting DWC HDPE SN8 pipes and specials into trenches including cost of excavation, bed concrete lot of manholes complete.				
i)	200 mm i/d				
a)	Average depth upto 1.5 m	M	365	2270.00	8.29
b)	Average depth 1.5 m to 4.5 m	M	131	2370.00	3.10
ii)	250 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	126	2700.00	3.40
iii)	300 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	15	2700.00	0.41
2	Provision for lighting, watching and temporary diversion traffic	LS		300000.00	3.00
3	Provision for timbering & shoring	LS		300000.00	3.00
4	Provision for cutting of roads and carriage of materials etc. and other unforeseen charges	LS		300000.00	3.00
5	Provision for connection with HSVP	LS		300000.00	3.00
6	Providing and installation of STP 780 KL including civil tanks and all electro mechanical works. It also includes flushing tank.	KL	780	16000.00	124.80



7 Provision for DI K-7 pipe from S.T.P. to HSVP main line

i) 100 mm dia pipe

M

240

1475.00

3.54
155.54

Add 3% contingencies & PE charges

4.67
160.20

Add 49% Deptt. Charges

78.50
238.70

(C.O. TO FINAL ABSTRACT OF COST SUB WORK - II)

TOTAL
SAY

238.70



Sub Work III

Storm water
drainage

In Lacs

S. No.	Description	Unit	Qty	Rate	
1	Providing, lowering, jointing, cutting RCC NP ² pipes with allround concrete and specials into trenches including cost of excavation cost of manholes, ventilating chambers etc. complete in all respects.				
i)	400 mm i/d				
a)	Average depth upto 1.5 m	M	837	2950.00	24.69
b)	Average depth 1.5 m to 4.5 m	M	30	3050.00	0.92
2	Provision for road gully and drain.	LS		1000000.00	10.00
3	Provision for lighting, watching and temporary diversion of traffic.	LS		300000.00	3.00
4	Provision for cutting of roads and carriage of materials etc. and other unforeseen items.	LS		300000.00	3.00
5	Construction of rain water harvesting pit of modular type as per details and specification given below and as per attached drawing including, cost of excavation of all ind soil foundation trenches of drain including dressing of sides of ramming and getting out excavation of soil.	Nos	5	450000.00	22.50
6	Provision for connection with HSVP.				
	400 mm i/d (Average depth 1.5 m to 4.5 m)	M	10	3050.00	0.31
7	Provision for connection with HSVP line	LS		300000.00	3.00
	Add 3% contingencies				67.41
					2.02
					69.43
	Add 49% Deptt. Charges				34.02
					103.46
					103.46



(C.O. TO FINAL ABSTRACT OF COST SUB WORK - III)

Road Work

S. No.	Description	Unit	Qty	Rate	In Lacs
1	Provision for levelling and earth filling as per site conditions.	Acre	7.5375	150000.00	11.306
2	Construction of road by- i) 300 mm GSB ii) 250 mm thick stone aggregate layer iii) 80 mm paver block iv) 20 mm th M.S.S. complete in all respect. Total	Sq. M	8490.415	1500.00	127.3562
3	Miscellaneous items (a) Providing for Kerbs & Channels for 7.5375 ACRES 6M wide road 772 x 2 = 1856 RM	RMT	1544	600.00	9.264
(b)	Provision of foot path of precast conc. for 7.5375 acres 6 wide road 928 x 1.2x 2 = 2227 SQM	Sq. M	1852.8	750.00	13.896
4	Provision for traffic lighting and guide map	LS		100000.00	1.00
5	Provision for carriage of material	LS		100000.00	1.00
6	Provision for tower indicator	LS		100000.00	1.00
7	Provision for demaracation & unflooreen items	LS		100000.00	1.00
8	Provision for Parking & Pavement for commercial area 50% of (1163.210+ 1660.562)	Sqm	1411.886	750.00	10.589
Add 3% contingencies					176.41
Add 49% Deptt. Charges					5.292
(C.O. TO FINAL ABSTRACT OF COST SUB WORK - IV)					181.704
					89.035
					270.74
					270.74



Street Lighting

Sub Work V

In Lacs

Rate

Qty

Unit

Description

S. No.

1 Providing street lighting on internal roads as per standard specification of HVPNL and CFL complete in all respect

Provision made on L.S. cost @ Rs.2,50,000.00 per acre

L.S.

250000.00

7.5375

18.84

18.84

0.57

Add 3% contingencies

19.41

9.51

Add 49% Deptt. Charges

TOTAL

28.92

(C.O. TO FINAL ABSTRACT OF COST SUB WORK - V)

SAY

28.92

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Horticulture

Sub Work VI

S. No.	Description	Unit	Qty	Rate	Amount In Lacs
1	Development of lawn area				
a)	Trenching the ordinary soil upto depth of 60 cm. including removal and apcking of servicable material and disposing at the lead of 50m and making upto the tranchred area to prope level by filling with earth mixed with manure before and after flooding trenches with water including cost of imported earth and manure.				
b)	Rough dressing of trenched area.				
c)	Grassing with including watering and maintenance of lawns free from weds and fit for moving in rows including for hedges, shrubs and green belt (as per HSVP Norms)	Per acre	1.154	150000.00	1.730876408
2	Planting of trees with tree guards on green at 12 m intervals along th roads Total length of Green = 772 mtr No of trees @ 12m c/c = $772 \times 2 / 12 = 128$ nos Say = 128 nos Cost of the tree @ 1800/- each	Nos.	128	1800.00	2.304
TOTAL					4.03
Add 3% contingencies					0.12
Add 49% Deptt. Charges					4.16
					2.04
					6.19
					6.19

TOTAL

(C.O. TO FINAL ABSTRACT OF COST SUB WORK - VI)



**PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES) SEC 81, GURUGRAM ,
HARYANA**

TITLE :- WATER SUPPLY QTY DOMESTIC WATER LINE

S.NO	Line No		Length of Pipe MTR.	Dia of Pipe MM	Sluice valve	
	From	To			Each	Each
1	UGT	D-01	37	100		1
2	D-01	D-02	25	100		1
3	D-02	D-03	48	100		0
4	D-02	D-04	59	100		1
5	D-04	D-05	44	100		0
6	D-01	D-05	76	100		1
7	D-05	D-06	23	100		0
8	D-06	D-07	82	100		1
9	D-07	D-08	44	100		0
10	D-06	D-08	122	100		0
11	D-08	D-09	23	100		1
12	D-09	D-10	88	100		0
13	D-10	D-11	42	100		0
14	D-09	D-11	52	100		1
	TOTAL	100 MM	763			7


 MEP
 Consultant
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**PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES) SEC 81,
GURUGRAM , HARYANA**

TITLE :- WATER SUPPLY QTY FLUSHING WATER LINE

S.NO	Line No		Length of Pipe MTR.	Dia of Pipe MM	Sluice valve	
	From	To			Each	Each
1	STP	F-01	32	80		1
2	F-01	F-02	45	80		1
3	F-02	F-03	22	80		0
4	F-03	F-04	89	80		0
5	F-04	F-05	42	80		1
6	F-03	F-05	53	80		0
7	F-02	F-06	123	80		1
8	F-01	F-06	82	80		1
9	F-06	F-07	22	80		0
10	F-07	F-08	44	80		0
11	F-08	F-09	59	80		0
12	F-07	F-09	101	80		1
13	F-09	F-10	48	80		
	TOTAL	80 MM	762			6

MEP
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9868550550
Raj Singh



for

PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES) SEC 61, GURUGRAM, HARYANA

TITLE :- SEWAGE QTY. SHEET

S.No.	Line No.	Length (mtr.)	Size of Pipe		Depth		Excavation				Total No. of Manhole	Manhole				Extra Depth				Rectangle Manhole (900x800)		
			(mm)	(M)	Start (mtr.)	End (mtr.)	Avg. (mtr.)	0.0-1.5mtr	1.5-3.0mtr	3.0-4.5mtr		4.5-6.0mtr	Type-A	Type-B	Type-C	Type-D	Type-A	Type-B	Type-C		Type-D	
1	S-01	S-02	40.5	200.00	200.00	0.90	1.18	1.04	40.5	0.0	0.0	0.0	3	3	0	0	0	0.390	0.000	0.000	0.000	
2	S-02	S-03	30.5	200.00	200.00	1.18	1.39	1.29	30.5	0.0	0.0	0.0	2	2	0	0	0	0.750	0.000	0.000	0.000	
3	S-03	S-04	47.5	200.00	200.00	1.39	1.72	1.56	0.0	47.5	0.0	0.0	4	4	0	0	0	2.580	0.000	0.000	0.000	
4	S-04	S-06	51.0	200.00	200.00	1.72	2.07	1.90	0.0	51.0	0.0	0.0	3	0	3	0	0	0.000	0.675	0.000	0.000	
5	S-05	S-06	74.0	200.00	200.00	0.90	1.41	1.16	74.0	0.0	0.0	0.0	5	5	0	0	0	1.225	0.000	0.000	0.000	
6	S-06	S-08	21.0	200.00	200.00	2.07	2.21	2.14	0.0	21.0	0.0	0.0	1	0	1	0	0	0.000	0.470	0.000	0.000	
7	S-07	S-08	30.0	200.00	200.00	0.90	1.11	1.01	30.0	0.0	0.0	0.0	3	3	0	0	0	0.285	0.000	0.000	0.000	
8	S-08	S-09	81.5	250.00	250.00	2.21	2.63	2.42	0.0	81.5	0.0	0.0	3	0	0	3	0	0.000	0.390	0.000	0.000	
9	S-09	S-11	44.0	250.00	250.00	2.63	2.86	2.75	0.0	44.0	0.0	0.0	2	0	0	2	0	0.000	0.000	0.940	0.000	
10	S-10	S-11	53.5	200.00	200.00	0.90	1.27	1.09	53.5	0.0	0.0	0.0	2	2	0	0	0	0.350	0.000	0.000	0.000	
11	S-11	S-15	9.0	300.00	300.00	2.86	2.89	2.88	0.0	9.0	0.0	0.0	1	0	0	1	0	0.000	0.585	0.000	0.000	
12	S-12	S-14	87.5	200.00	200.00	0.90	1.50	1.20	87.5	0.0	0.0	0.0	5	5	0	0	0	1.450	0.000	0.000	0.000	
13	S-13	S-14	48.5	200.00	200.00	0.90	1.23	1.07	48.5	0.0	0.0	0.0	2	2	0	0	0	0.310	0.000	0.000	0.000	
14	S-14	S-15	11.5	200.00	200.00	1.50	1.58	1.54	0.0	11.5	0.0	0.0	1	1	0	0	0	0.630	0.000	0.000	0.000	
15	S-15	STP	6.0	300.00	300.00	2.89	2.92	2.91	0.0	6.0	0.0	0.0	1	0	0	1	0	0.000	0.000	0.615	0.000	
Total		636							364.5	271.5	0.0	0.0	38.0	27.0	4.0	7.0	0.0	8.0	1.1	2.5	0.0	0.0

Excavation Depth	(0.0 - 1.5)	(1.5 - 3.0)	(3.0 - 4.5)	(4.5 - Above)
150 mm Dia pipe	0	0	0	0
200 mm Dia pipe	365	131	0	0
250 mm Dia pipe	0	126	0	0
300 mm Dia pipe	0	15	0	0
400 mm Dia pipe	0	0	0	0

Anat



Forum International Design
NEW DELHI
F622A, GROUND FLOOR, L-50
SARAI, NEW DELHI 110050
011-40556650
Rishi

PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES) SEC 81, GURUGRAM , HARYANA

TITLE :- STORM WATER QTY. SHEET

S.No.	Line No.	Length (mtr.)	Size of Pipe		Start (mtr.)	Depth End (mtr.)	Avg. (mtr.)	EXCAVATION				Total No. of Manhole	Manhole			Extra Depth		Catch Basin (600x600)
			(mm)	(M)				0-1.5mtr mtr	1.5-3.0 mtr	3.0-4.5 mtr	4.5- above		Type-A	Type-B	Type-C	Type-A	Type-B	
1	R-01	75.0	400	0.400	0.90	1.07	0.99	75.0	0.0	0.0	0.0	4	4	0	0	0.300	0.000	0.000
2	R-02	15.0	400	0.400	1.07	1.10	1.09	15.0	0.0	0.0	0.0	1	1	0	0	0.175	0.000	0.000
3	R-03	50.0	400	0.400	0.90	1.01	0.96	50.0	0.0	0.0	0.0	3	3	0	0	0.135	0.000	0.000
4	R-04	73.5	400	0.400	1.01	1.17	1.09	73.5	0.0	0.0	0.0	4	4	0	0	0.720	0.000	0.000
5	R-05	34.0	400	0.400	0.90	0.98	0.94	34.0	0.0	0.0	0.0	3	3	0	0	0.090	0.000	0.000
6	R-06	35.0	400	0.400	1.17	1.25	1.21	35.0	0.0	0.0	0.0	2	2	0	0	0.600	0.000	0.000
7	R-07	29.0	400	0.400	1.25	1.32	1.29	29.0	0.0	0.0	0.0	2	2	0	0	0.750	0.000	0.000
8	R-08	29.0	400	0.400	1.32	1.38	1.35	29.0	0.0	0.0	0.0	2	2	0	0	0.880	0.000	0.000
9	R-09	39.0	400	0.400	0.90	0.99	0.95	39.0	0.0	0.0	0.0	3	3	0	0	0.105	0.000	0.000
10	R-10	24.0	400	0.400	1.38	1.43	1.41	24.0	0.0	0.0	0.0	2	2	0	0	0.990	0.000	0.000
11	R-11	81.5	400	0.400	0.90	1.08	0.99	81.5	0.0	0.0	0.0	6	6	0	0	0.480	0.000	0.000
12	R-12	45.0	400	0.400	1.08	1.18	1.13	45.0	0.0	0.0	0.0	2	2	0	0	0.440	0.000	0.000
13	R-13	27.0	400	0.400	1.18	1.24	1.21	27.0	0.0	0.0	0.0	1	1	0	0	0.300	0.000	0.000
14	R-14	55.5	400	0.400	0.90	1.02	0.96	55.5	0.0	0.0	0.0	3	3	0	0	0.150	0.000	0.000
15	R-15	49.0	400	0.400	0.90	1.01	0.96	49.0	0.0	0.0	0.0	2	2	0	0	0.090	0.000	0.000
16	R-16	30.0	400	0.400	1.02	1.09	1.06	30.0	0.0	0.0	0.0	1	1	0	0	0.145	0.000	0.000
17	R-17	16.0	400	0.400	1.09	1.13	1.11	16.0	0.0	0.0	0.0	1	1	0	0	0.200	0.000	0.000
18	R-18	54.0	400	0.400	1.24	1.36	1.30	54.0	0.0	0.0	0.0	3	3	0	0	1.170	0.000	0.000
19	R-19	23.0	400	0.400	0.90	0.95	0.93	23.0	0.0	0.0	0.0	1	1	0	0	0.015	0.000	0.000
20	R-20	52.0	400	0.400	1.36	1.48	1.42	52.0	0.0	0.0	0.0	3	3	0	0	1.530	0.000	0.000
21	R-21	30.0	400	0.400	1.48	1.54	1.51	30.0	0.0	0.0	0.0	1	1	0	0	0.600	0.000	0.000
Total		867						837	30	0	0.0	50.0	50.0	0.0	0.0	9.9	0.0	0.0

Station	Depth	(0.0 - 1.5)	(1.5 - 3.0)	(3.0 - 4.5)	(4.5 - above)
200 mm Dia pipe	0	0	0	0	0
400 mm Dia pipe	837	30	0	0	0
450 mm Dia pipe	0	0	0	0	0
500 mm Dia pipe	0	0	0	0	0
600 mm Dia pipe	0	0	0	0	0
700 mm Dia pipe	0	0	0	0	0
800 mm Dia pipe	0	0	0	0	0

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PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES) SEC 81, GURUGRAM, HARYANA									
GARDEN IRRIGATION LINE			CITY WATER SUPPLY LINE			BOREWELL WATER SUPPLY LINE			
SL NO.	DIA OF PIPE IN MM	LENGTH IN M	GARDEN HYDRANT	SL NO.	PIPE DIA IN MM	LENGTH IN M	SL NO.	PIPE DIA IN MM	LENGTH IN M
1	25	20	20	1	100	40	1	100	110
2	65	901							
	TOTAL		20						

Mohara Associates Pvt Ltd
 E&P
 Consultant
 F623A, GROUND FLOOR, LADO
 SAGAR, NEW DELHI 110030
 91-11-40605505-10
 91-11-40605505-10



PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES), SECTOR 81, GURUGRAM, HARYANA

TITLE :- DOMESTIC WATER SUPPLY HYDRAULIC CHART FOR RING LINES.

S.NO	Line No		PLOTS (GENERAL)			Water Requirement for Non Residential Plots.				Gross Water Requirement (Load on Line)	Average Demand @ 2.5 Times	Peak Demand @ 2.5 Times	Flow Rate	Length of Pipe	Head Loss Mtr/Mtr	Total Head Loss	Velocity	Dia of Pipe	Road LVL at start	Hydraulic LVL at start	Head at start	Road LVL at End	Hydraulic LVL at End	Head at End
	From	To	Population @ 5 persons / DU.	Water Requirement @ 172.5 Ltr/head / day	Commercial Area in Acre	TYPE OF BUILDING	Basis of Water Requirement in commercial LPD	OCF	Total Water Requirement in LPD															
			5	112.13																				
1	UGT	D-01	1040	583050	0.698	COMMERCIAL	14514	1568	16082	599132	589	1498	1040	37	0.0460	1.70	2.206	100	229.00	329.00	100.00	234.00	327.30	93.30
2	D-01	D-02	520	291525	0.287	COMMERCIAL	5979	1568	7547	299072	299	748	519	25	0.0127	0.32	1.101	100	234.00	327.30	93.30	234.00	326.98	92.98
3	D-02	D-03	0	0	0.287	COMMERCIAL	5979	0	5979	5979	6	15	10	48	0.0000	0.00	0.022	100	234.00	326.98	92.98	234.00	326.98	92.98
4	D-02	D-04	520	291525			0	1568	1568	293083	293	733	509	59	0.0122	0.72	1.079	100	234.00	326.98	92.98	234.00	326.26	92.26
5	D-04	D-05	520	291525			0	1568	1568	293083	293	733	509	44	0.0122	0.53	1.079	100	234.00	326.26	92.26	234.00	325.73	91.73
6	D-01	D-05	520	291525	0.410	COMMERCIAL	8535		8535	300060	300	750	521	76	0.0128	0.97	1.105	100	234.00	327.30	93.30	234.00	326.33	92.33
7	D-05	D-06	360	403650	0.410	COMMERCIAL	8535		8535	412185	412	1030	716	23	0.0230	0.53	1.518	100	234.00	326.33	92.33	234.00	325.80	91.80
8	D-06	D-07	360	201825			0		0	201825	202	505	350	82	0.0061	0.50	0.743	100	234.00	325.80	91.80	234.00	325.30	91.30
9	D-07	D-08	360	201825			0		0	201825	202	505	350	44	0.0061	0.27	0.743	100	234.00	325.30	91.30	234.00	325.03	91.03
10	D-06	D-08	360	201825	0.410	COMMERCIAL	8535		8535	210360	210	526	365	122	0.0066	0.81	0.775	100	234.00	325.80	91.80	234.00	324.99	90.99
11	D-08	D-09	220	123338	0.410	COMMERCIAL	8535		8535	131872	132	330	229	23	0.0028	0.06	0.486	100	234.00	325.03	91.03	234.00	324.97	90.97
12	D-09	D-10	110	61669	0.410	COMMERCIAL	8535		8535	70204	70	176	122	88	0.0009	0.08	0.258	100	234.00	324.97	90.97	234.00	324.89	90.89
13	D-10	D-11	110	61669	0.410	COMMERCIAL	8535		8535	70204	70	176	122	42	0.0009	0.04	0.258	100	234.00	324.89	90.89	234.00	324.85	90.85
14	D-09	D-11	110	61669			0		0	61669	62	154	107	52	0.0007	0.04	0.227	100	234.00	324.97	90.97	234.00	324.93	90.93



PROJECT : AFFORDABLE GROUP HOUSING COLONY, LOAD ON SEWAGE LINES (7.5375 ACRES), SEC 81, GURUGRAM										
S. No.	Name of Sewer Line	DU			Water Requirement for Non Residential Plots					Sewage Flow (Self Load on Line)
		Number of DU	Population @ 5 persons / DU	Water Requirement @ 172.5 Ltr/ head / day	Type of Building	Basis of Water Requirement	Total Water Requirement.	Gross Water Requirement (Load on Line)	Sewage Flow (Self Load on Line)	
		Nos.	Nos.	lpd.		lpd.	lpd.	lpd.	lpd.	kld.
	From To		5	172.5		Lumpsum			80%	1000
1	S-01		0	0	COMMERCIAL-1	9198	9198	9198	7358	7.36
2	S-02		0	0			0	0	0	0.00
3	S-03		0	0			0	0	0	0.00
4	S-04	160	800	138000			0	138000	110400	110.40
5	S-05	160	800	138000	COMMUNITY CENTRE	2412	2412	140412	112330	112.33
6	S-06		0	0			0	0	0	0.00
7	S-07	81	405	69863			0	69863	55890	55.89
8	S-08	253	1265	218213			0	218213	174570	174.57
9	S-09		0	0			0	0	0	0.00
10	S-10	166	830	143175			0	143175	114540	114.54
11	S-11		0	0			0	0	0	0.00
12	S-12	110	550	94875	COMMERCIAL-2	13131	13131	108006	86405	86.40
13	S-13	110	550	94875			0	94875	75900	75.90
14	S-14		0	0			0	0	0	0.00
15	S-15		0	0			0	0	0	0.00
	STP									




 21-5-21

Debra Associates PwC Ltd
MP
Contaminant
F673A, GROUND FLOOR, L200
STAG, NEW DELHI-110030
Fig 21
Dl-40503088



PROJECT :- AFFORDABLE GROUP HOUSING COLONY (7.5375 ACRES) SEC 81, GURUGRAM, HARYANA

TITLE :- STORM WATER DRAINAGE - HYDRAULIC DESIGN CHART.

S.No	Line No.	Length in mtr.	self area in sqmtr.	Self Area (Hec)	previous area in hec.	Total Area (Hec)	Rain Fall mm/hr	Discharge @12.15 lps/Hec	Pipe dia (mm)	Slope (mm) 1 in	Velocity m/sec.	Cap of pipe in lps.	Fall in line mtr.	Road level at Start	Invert Level at Start	Road level at End	Invert Level at End	Depth at Start	Depth at End	Average Depth	No. of Manhole	Manhole Type			
																						910 Dia upto 1.67m Type-A	1220 Dia upto 2.29m Type-B	1520 Dia From 2.29 to 4.18m	1520 Dia Above 4.18m
1	R-01	75.0	2414	0.241	0.000	0.241	6.25	2.93	400	450	0.923	116.07	0.17	234.00	233.10	234.00	232.93	0.90	1.07	0.98	4	0	0	0	0
2	R-02	15.0	151	0.015	0.241	0.257	6.25	3.12	400	450	0.923	116.07	0.03	234.00	232.93	234.00	232.90	1.07	1.10	1.08	1	0	0	0	0
3	R-03	50.0	911	0.091	0.000	0.091	6.25	1.11	400	450	0.923	116.07	0.11	234.00	233.10	234.00	232.99	0.90	1.01	0.96	3	0	0	0	0
4	R-04	73.5	2879	0.288	0.091	0.379	6.25	4.61	400	450	0.923	116.07	0.16	234.00	232.99	234.00	232.83	1.01	1.17	1.09	4	0	0	0	0
5	R-05	34.0	1040	0.104	0.000	0.104	6.25	1.26	400	450	0.923	116.07	0.08	234.00	233.10	234.00	233.02	0.90	0.98	0.94	3	0	0	0	0
6	R-06	35.0	817	0.082	0.483	0.565	6.25	6.86	400	450	0.923	116.07	0.08	234.00	232.83	234.00	232.75	1.17	1.25	1.21	2	0	0	0	0
7	R-07	29.0	1121	0.112	0.565	0.677	6.25	8.23	400	450	0.923	116.07	0.06	234.00	232.75	234.00	232.68	1.25	1.32	1.28	2	0	0	0	0
8	R-08	29.0	547	0.055	0.933	0.988	6.25	12.01	400	450	0.923	116.07	0.06	234.00	232.68	234.00	232.62	1.32	1.38	1.35	2	0	0	0	0
9	R-09	39.0	2132	0.213	0.000	0.213	6.25	2.59	400	450	0.923	116.07	0.09	234.00	233.10	234.00	233.01	0.90	0.99	0.94	3	0	0	0	0
10	R-10	24.0	531	0.053	1.201	1.254	6.25	15.24	400	450	0.923	116.07	0.05	234.00	232.62	234.00	232.57	1.38	1.43	1.41	2	0	0	0	0
11	R-11	81.5	3122	0.312	0.000	0.312	6.25	3.79	400	450	0.923	116.07	0.18	234.00	233.10	234.00	232.92	0.90	1.08	0.99	6	0	0	0	0
12	R-12	45.0	1028	0.103	0.312	0.415	6.25	5.04	400	450	0.923	116.07	0.10	234.00	232.92	234.00	232.82	1.08	1.18	1.13	2	0	0	0	0
13	R-13	27.0	652	0.065	0.415	0.480	6.25	5.84	400	450	0.923	116.07	0.06	234.00	232.82	234.00	232.76	1.18	1.24	1.21	1	0	0	0	0
14	R-14	55.5	2428	0.243	0.000	0.243	6.25	2.95	400	450	0.923	116.07	0.12	234.00	233.10	234.00	232.98	0.90	1.02	0.96	3	0	0	0	0
15	R-15	49.0	2846	0.285	0.000	0.285	6.25	3.46	400	450	0.923	116.07	0.11	234.00	233.10	234.00	232.99	0.90	1.01	0.95	2	0	0	0	0
16	R-16	30.0	1594	0.159	0.527	0.687	6.25	8.35	400	450	0.923	116.07	0.07	234.00	232.98	234.00	232.91	1.02	1.09	1.06	1	0	0	0	0
17	R-17	16.0	345	0.035	0.687	0.721	6.25	8.77	400	450	0.923	116.07	0.04	234.00	232.91	234.00	232.87	1.09	1.13	1.11	1	0	0	0	0
18	R-18	54.0	939	0.094	1.202	1.295	6.25	15.74	400	450	0.923	116.07	0.12	234.00	232.76	234.00	232.64	1.24	1.36	1.30	3	0	0	0	0
19	R-19	23.0	2328	0.233	0.000	0.233	6.25	2.83	400	450	0.923	116.07	0.05	234.00	233.10	234.00	233.05	0.90	0.95	0.93	1	0	0	0	0
20	R-20	52.0	1936	0.194	1.528	1.722	6.25	20.92	400	450	0.923	116.07	0.12	234.00	232.64	234.00	232.52	1.36	1.48	1.42	3	0	0	0	0
21	R-21	30.0	342	0.034	2.976	3.010	6.25	36.58	400	450	0.923	116.07	0.07	234.00	232.52	234.00	232.46	1.48	1.54	1.51	1	0	0	0	0



PROJECT- GLS INFRACON PVT. LTD.

SL NO.	ROAD NO.	ROAD LENGTH (MTR)	WIDTH IN MTR	QUANTITY	AREA IN SQMTR
1	ROAD A	AS PER POLYLINE		1.00	90.55
2	ROAD B	AS PER POLYLINE		1.00	73.08
3	ROAD C	AS PER POLYLINE		1.00	425.70
4	ROAD C1	18.50	6.00	1.00	110.99
5	ROAD C2	18.89	6.00	1.00	113.35
6	ROAD C3	AS PER POLYLINE		1.00	201.82
7	ROAD C4	AS PER POLYLINE		1.00	111.47
8	ROAD C5	29.72	6.00	1.00	178.32
9	ROAD D	AS PER POLYLINE		1.00	52.10
10	ROAD D1	19.03	6.00	1.00	114.18
11	ROAD D2	28.59	6.00	1.00	171.55
12	ROAD D3	AS PER POLYLINE		1.00	109.49
13	ROAD D4	AS PER POLYLINE		1.00	101.14
14	ROAD D5	29.75	6.00	1.00	178.51
15	ROAD E	AS PER POLYLINE		1.00	67.60
16	ROAD E1	20.40	7.50	1.00	153.00
17	ROAD E2	40.00	7.50	1.00	300.00
18	ROAD E3	30.30	7.50	1.00	227.25
19	ROAD E4	43.00	7.50	1.00	322.50
20	ROAD E5	7.50	6.00	1.00	45.00
21	ROAD F	AS PER POLYLINE		1.00	233.48
22	ROAD F1	12.66	6.00	1.00	75.93
23	ROAD F2	AS PER POLYLINE		1.00	43.09
24	ROAD F3	14.50	6.00	1.00	87.01
25	ROAD F4	AS PER POLYLINE		1.00	284.47
26	ROAD F5	15.95	6.00	2.00	191.40
27	ROAD G	AS PER POLYLINE		1.00	243.43
28	ROAD G1	52.73	6.00	1.00	316.39
29	ROAD G2	18.06	6.00	1.00	108.36
30	ROAD G3	AS PER POLYLINE		1.00	66.21
31	ROAD G4	29.00	6.00	1.00	174.00
32	ROAD H	8.38	6.30	1.00	52.79
33	ROAD H1	AS PER POLYLINE		1.00	177.43
34	ROAD H2	38.62	4.50	1.00	173.80
35	ROAD H3	39.57	6.00	1.00	237.40
36	ROAD H4	22.61	6.00	1.00	135.68
37	ROAD H5	AS PER POLYLINE		1.00	220.88
38	ROAD I	22.41	6.00	1.00	134.46
39	ROAD I1	AS PER POLYLINE		1.00	18.72
40	ROAD I2	14.74	6.00	1.00	88.44
41	ROAD I3	AS PER POLYLINE		1.00	70.08
42	ROAD I4	21.10	6.00	1.00	126.60
43	ROAD I5	AS PER POLYLINE		1.00	37.85
44	ROAD J	20.85	6.00	1.00	125.10
45	ROAD J1	AS PER POLYLINE		1.00	123.75
46	ROAD J2	9.36	3.00	1.00	28.08
47	ROAD J3	AS PER POLYLINE		1.00	179.53
48	ROAD J4	15.47	4.50	1.00	69.61
49	ROAD J5	8.29	3.00	1.00	24.87
50	ROAD K	AS PER POLYLINE		1.00	135.75
51	ROAD K1	29.87	6.00	1.00	179.24
52	ROAD K2	AS PER POLYLINE		1.00	209.36
53	ROAD K3	40.58	6.00	2.00	486.96
54	ROAD K4	AS PER POLYLINE		1.00	174.57
55	ROAD K5	37.85	6.00	1.00	227.10
56	ROAD K6	13.50	6.00	1.00	81.00
TOTAL					8490.42