

**EXTERNAL DEVELOPMENT WORKS DESIGN
AND COST ESTIMATES**

FOR

**APPROVAL OF SERVICE ESTIMATE OF PROPOSED
BUILDING PLAN OF COMMERCIAL COLONY AREA
MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED
18/04/2022) IN SECTOR-89, GURUGRAM BEING
DEVELOPED BY SMART ARENA HOMETOWN LLP IN
COLLABORATION WITH PEERRAGE BUILDWELL
PVT. LTD.**

DEVELOPED BY:

**SMART ARENA HOMETOWN LLP IN
COLLABORATION WITH PEERRAGE
BUILDWELL PVT. LTD.**

COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION WITH PEERRAGE BUILDWELL PVT. LTD.

REPORT

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT REVISED BUILDING PLAN FOR PROPOSED BUILDING PLAN OF COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION WITH PEERRAGE BUILDWELL PVT. LTD.

Gurgaon Manesar Urban Complex of Haryana State situated on N.H.- 8 Highway at a distance of 50 Kms from Delhi. Being the National Capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing residential load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, it has been decided by the Haryana Govt. to establish various residential, and other infrastructure sectors in Gurgaon Manesar Urban Complex Being Developed by SMART ARENA HOMETOWN LLP IN COLLABORATION WITH PEERRAGE BUILDWELL PVT. LTD.

WATER SUPPLY

At present the source of water supply in this area is water Tankes/ Boosting station/ HSVP Water Supply. It has been proposed to construct the under ground tanks of capacity as per attached details, and at location for domestic purpose and for fire protection. The underground tanks will be fed from the tankers and HSVP supply, which will feed overhead tanks on the roof of the buildings. The water supply system has been designed as per Hazen Williams formula.

DESIGN

The scheme has been designed for population of approx 9350 persons for Commercial Building. The rate of water supply per head / day has been taken as (Staff = 45 liters , Visitor = 15 liters , Restaurant = 70Litre) as per HSVP norms in addition to above necessary provision of water for club and parks etc. have been taken into account for calculating the maximum quantity of water requirement.

PUMPING REQUIREMENTS

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 electricity failure.

UNDERGROUND STORATE TANK

Underground storage tank provision has been made in two compartments, which cater for the domestic as well as for fire fighting requirement. The water for fire water compartment shall overflow to the domestic compartment so that the water in the fire compartment also remain full & fresh and will not contaminate.

For Peerage Buildwell Pvt Ltd

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BOOSTING STATION

The boosting station is being planned near underground storage tank catering to above requirement.

DISTRIBUTION SYSTEM

The distribution system for this development has been designed to supply @ (Staff = 45 liters, Visitor=15Litre, Restaurant = 70Litre , Food court = 35liters) per head per day @ 3 times the average rate of flow on Hazen William formula. Necessary provision for laying CI/DI pipes confirming to relevant IS standard along with valves and special has been made in the project. The minimum terminal head at any point will be more than 50 so that it can be serve the B+G + 4 floors construction envisaged in the plan. Minimum pipe dia. for distribution is kept as 80 mm dia.

RISING MAIN

Raising main from HSVP water main or sector road to water work have also been proposed as provision has been made in this estimate.

SEWERAGE SCHEME

This scheme has been designed for sewer connecting to STP & over flow of STP connected to HSVP sewer main. The sewerage system has been marked on respective plans.

The sewer lines have been designed for three 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 design statement for entire sewerage system has been prepared and attached with estimate. Manning's formula has been used for the design of sewerage system.

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STORM WATER DRAINAGE

Since the Master Scheme has been proposed with pipe drain with rain water harvesting pit, we proposed to lay pipe drains with required number of catch basins for disposal of storm water to harvesting pit. The intensity of rain fall has been taken as 40 mm per hour. A minimum size of 400 mm dia pipe storm water pipe will be provided and designed as per Manning's formula.

FIRE

As per N.B.C. (National Building Code), fire tanks & required capacity pumps have been provided the plan as shown on the plan. Similarly irrigation pumps of required capacity provided as shown on the plan.

SPECIFICATIONS

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

ROADS

Cost of Road has been taken in the estimate.

STREETLIGHTING

Provision of lighting on surrounding area has been made.

HORTICULTURE

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

RATES

The estimate has been prepared based on the present market rates.

COST

The total cost of the scheme, including cost of all services works out to be Rs ~~413.97~~ ^{765.93} Lacs Including 3% contingencies and 49% departmental charges, price escalation & other unforeseen charges. Cost of per Acres Rs ~~109.48~~ ^{193.30} Lacs.

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(I) DAILY WATER REQUIREMENT			
A) Commercial			
a)	Shops at Lower Ground Floor 7557.16 sqm @ 3 sqmt/ person	=	2519 Persons
b)	Shops at Ground Floor 8342.33 sqm @ 3 sqmt/ person	=	2781 Persons
c)	Shops at Mezzanine Floor 363.65 sqm @ 3 sqmt/ person	=	121 Persons
d)	Shops at First Floor 7228.00 sqm @ 6 sqmt/ person	=	1205 Persons
e)	Total	=	6626 Persons
f)	Shopkeepers @ 10% of Population @ 45 LPCD	=	663 Persons 29835 Liters/ Day
g)	Visitors @ 90% of Population @ 15 LPCD	=	5963 Persons 89445 Liters/ Day
h)	2nd Floor (Commercial/Restaurant Bar) total area = 2764.1 sqm @ 1.8 sqm per person Visitors @ 90% of Population @ 70 LPCD Restaurant staff @ 10 % of Population @ 45 LPCD	=	1536 person 96743.50 Liters/ Day 6910.25 Liters/ Day
i)	Auditorium Auditorium no. of seats - 814 nos. Visitors @ 15 LPCD Staff (30 nos) @ 45 LPCD	=	814 person 12210.00 Liters/ Day 1350.00 Liters/ Day
k)	Maintenance staff @ 45 LPCD	=	35 Persons 1575 Liters/ Day
l)	Back Wash Filters - L.S.	=	4035 Liters/day
	Total water demand	=	242104 Liters/day
	SAY	=	242 KLD
B) Horticulture & Road Work			
a)	Area under Green area 970 sqmt @ 5 Ltrs./Sqmt	=	970 SQMT -5820 Liters
	6.17		5985

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b)	Area under road + Paved area = 5965 sqm	=	1.47430	Acres
	@ 5 K.L./Acre	=	7371.48	Liters
	Total Water Demand (a + b)	=	13191	Liters 13356.44
	Say	=	13000	Liters
			134000	
	The demand of horticulture & road work will met from recirculates water after treatment at S.T.P.			
	Total water demand	=	242104	Liters/day
		=	242.104	KLD
	Say	=	242	KLD
	Domestic water demand			
	60% of AV/WD of (A)	=	145262	Liters/day
	Domestic water demand (KLD)	=	145.26	KLD
	Or Say	=	145.00	KLD
	Flushing water demand			
	40% of AV/WD	=	96842	Liters/day
	Flushing water demand (KLD)	=	96.84	KLD
	Or Say	=	95.00	KLD
	Sewage Treatment Plant Capacity			
	Average Sewerage Contribution Considering 80% of AV domestic water demand & 100% of AV/Flushing demand	=	211000	Liter / Day
	Sewage Treatment Plant Capacity (KLD)	=	211.00	KLD
	Say		210	KLD
	Sewage scheme			
	Peak discharge @3 times of sewage discharge plus sub soil infiltration @ 10% of total water demand	=	654200	Liters
		=	145378	GPD
		=	0.269	Cusces

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(I) BOOSTING STATION		
Approx. discharge of borewells @ 18 KL/hour and working 16 hours/day		
(a)	Total domestic water demand = KLD	= 145.00
(b)	No. of tube wells Required for total demand	= 0.50
	Add 10% extra	= 0.05
	Total	= 0.55
	Say	= 1.00
So, it is proposed to provide Two No. (1W+1S) (One working & One standby). Moreover, the water demand for horticulture purposes is to met from recirculated water after treatment at STP and ultimate water supply is to provided by HUDA.		



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(I) Pumping Machinery for Boosting Station			
Gross working Head	=	28.0	Meters
Average Fall in S.L.	=	5.0	Meters
Depression Head	=	5.0	Meters
Friction loss in main + Positive head	=	10.0	Meters
Total	=	48.0	Meters
Or Say	=	50.0	Meters
Pump HP = $\frac{28000 \times 50 \times 100}{60 \times 60 \times 75 \times 70}$	=	5.56 7.41	H.P.
Or Say	=	7.50	H.P.
It is proposed to provide 2 Nos. of 7.5HP motors 50 Mtr head (1 Working & 1 standby)			
(II) Plumbing Machinery for Domestic & Flushing Tank			
a) Total Domestic Water Demand	=	145262	Liters
Day Storage (Equal to one day)	=	145.26	KLD
Or Say	=	145.0	KLD
Fire Tank provided as per N.B.C. Norms	=	700.00	KLD
Hence it is proposed to construct an underground tank of 200 KLD having 150 KLD for treated water, 50 KLD as raw water, and 700 KLD for fire fighting purpose as per location shown on plan i.e. Total 900 K.L.D.			
(III) Boosting Machinery (Drinking water)			
a) For Under Ground Tank			
Total water demand (Domestic)	=	145.00	KLD
L.P.M. for 6 hour pumping	=	402.78	LPM
Or Say	=	405.00	LPM
Gross Working Head			
- Suction lift	=	5.00	Meters
- Delivery head	=	5.00	Meters
- Frictional loss in Mains & Specials+ Positive head	=	9.50	Meters
- Clear head required	=	28.0	Meters
Total	=	47.5	Meters
Or Say	=	50.0	Meters
Pump HP = $\frac{405 \times 50 \times 100}{60 \times 75 \times 70}$	=	7.50 6.43	H.P.
Or Say	=	7.50	H.P.
It is proposed to provide 2 nos. of motors of 7.5 HP sets of 405 LPM discharge at 50 M head (One pumps working and One as standby for domestic supply & generator set of same capacity in case of electric failure) for domestic purpose.			

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b)	Flushing water supply requirement			
(i)	AV water demand	=	242104	liters/day
(ii)	Flushing water supply demand @40%	=	96842	liters/day
	Flushing water demand (KLD)	=	96.84	KLD
	Or Say	=	95.00	KLD
	L.P.M. for @ 6 hour pumping			
			$95/6 = 15.83 \text{ KLD}$	
		=	263.89	LPM
	Say	=	265.00	LPM
	Pump HP = $\frac{265 \times 50 \times 100}{60 \times 75 \times 70}$	=	4.21	H.P.
			4.96	
	Or Say	=	5.00	H.P.
	It is proposed to provide 2 nos. of motors 5 HP sets of 265 LPM discharge at 50 m head (One pump working & one pump stand by & generator set of same capacity in case of electric failure.)			
(V)	Irrigation Pumping			
a)	Plot Area	=	3.9625	Acres
		=	16035.67	Sqmt
	Water Demand of Horticulture + Road Area	=	13400	LPD
	8 Hours Pumping	=	27.08	LPM
	Say	=	30	LPM
	Head	=	35	Mtr.
	Pump HP = $\frac{30 \times 35 \times 100}{60 \times 75 \times 70}$	=	0.33	H.P.
			0.77	
	Or Say	=	1.00	H.P.
	It is proposed to provide 2 Nos. of motors of 1 HP sets of 30 LPM discharge at 35 M head (One pump are working and one as standby & generator set of same capacity in case of electric failure.)			



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(VI) PUMPS FOR FIRE PROTECTION						
S. No.	Parameters	Location	Pump sets			
			Water curtain	Jockey	Main	Diesel
1	Discharge in lpm	Pump Room	4550 lpm	180 lpm	2850 lpm	2850 lpm
2	Head in metre		45	80	80	80
3	HP		75.5	5.3*2=10.6HP	84.5x2 =169HP	
4	Quantity in nos.		1	2	2	1
(VII) GENERATING SETS						
S. No	Equipment	QTY	HP	Total HP		
1	Boosting Station	1	7.5	7.5		
2	For Jockey Pump	2	5.3	10.6		
3	Booster Pump (for domestic) + Flushing+ irrigation pump	1 + 1 + 1	7.5+5+1	13.5		
	Total			31.6		
				23.12		KW
	Disversity 0.8 & Power factor 0.8		23.12 x 1.5 = 34.69	36.83		KVA
	Or Say			41.70		KVA
				35.0		
It is proposed to add 62.50 KVA capacity for above said machinery to the main DG set.						



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Sub Work No.1							Water Supply	
Sub Head	Description						Amount (Rs.). In lacs	
1	Head Works						63.08	
2	Pumping Machinery						109.73	
3	Rising Main						14.58	
4	Distribution System						18.03	
5	Fire Fighting						8.59	
6	Irrigation						9.30	
	Say (In Lacs)						19.00	
							18.28	
							139.41	
							135.85	
							8.88	11.79
							253.54	

302.97 lacs

C.O. to final abstract of cost



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Sub Work No-1

Water Supply

Sub Head No-01

Head Works

SI No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs.)
1	Providing Boosting arrangement with chamber by pumps (7.5 HP) at 50 M head, 2 Nos. @ Rs. 80,000/- each	2	80000 2.0	1.60 2.0
2	Providing Boosting arrangement by pumps 7.5 HP, capacity 405 LPM at 50 M head, 2 Nos. each & @ Rs. 150,000/- each (For Domestic) complete with panel, foundation etc.	(1+1) 2	150000	3.00
3	Provision for carriage of materials and other unforeseen items (LS)			0.50
4	Construction of U.G. tanks of total cap. 900 KL @ Rs. 4000/KL (200+700 KL) (Domestic)	900	4000 3600	36.00
TOTAL (5+7 & 9 in below)				41.10
Add 3% contingencies				1.23
TOTAL				42.33
Add 49% Department charges, Price Esciation & other unforeseen Charges.				20.74
TOTAL COST				63.08

- 5) Boring and installing T.W. with remote rotary rig complete with pipes and strainer to a depth about 120m complete in all respects (only for drinking purpose with permission) 1 No @ Rs 15.00 lacs
- 6) Prov. for T.W. chamber size 1.50m x 1.50m x 1.50m complete in all respects (Housing Board) Rs 1.00 lacs
- 7) Prov. for special for T.W. & Rigging main (W)



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Sub Work No-1						Water Supply	
Sub Work No-02						Pumping Machinery	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs.)	
1	Provision for diesel engine genset each for standby arrangements for T.W. of booster pump complete with gear head arrangement. - 1 No. 41.70 KVA @ 650000 /-.	1	x	650000 5.25	Rs.	6.50 5.25	
2	Providing for disinfection plant complete. 1 No. @ 50,000/-	1	x	50000 (6.3)	Rs.	1.00 0.50	
3	Provision for making foundations and erection of Pumping machinery @ Rs. 50000/-	1	x	50000 (1.3)	Rs.	0.50	
4	Provision for pipes, valves and specials inside boosting chamber - 1 Set (L.S.) for Rs. 50000/-	1	x	50000 (1.1)	Rs.	0.50 1.1	
5	Provision for electric services connection including electric fitting for tube wells & boosting chamber etc. 1 set (L.S.) Rs. 100000/-	1	x	100000 (1.3)	Rs.	1.00 2.50	
6	Provision for carriage of material and unforeseen item. L.S. for Building Rs. 50000/-	1	x	50000 (1.3)	Rs.	0.50	
TOTAL						Rs.	11.75 9.50
Add 3% contingencies <i>as per charges</i>						Rs.	0.35 0.29
TOTAL						Rs.	12.10 9.79
Add 49% Department charges, Price Escalation & other unforeseen Charges.						Rs.	5.93 4.79
TOTAL COST						Rs.	14.58 16.03



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Sub Work No-1

Water Supply

Sub Work No-03

Rising Main from HSVP

SI No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)
1	Providing, laying, jointing & testing 80 mm dia. HDPE pipe lines including cost of excavation complete in all respects.	200 @	1460/- 1000	Rs. 2.00 2.92
2	Providing and fixing 80 mm dia. sluice valves including cost of surface boxes and masonry chambers etc., complete in all respects.	1 @	75000 12000	Rs. 0.75 0.12
3	Providing and Fixing indicating plates for sluice valves, Air valves & fire hydrant.	1 @	10000 2000/-	Rs. 0.10 0.02
4	Provision for carriage of material & other foreseen items etc., L.S.	1 @	50000	Rs. 0.50 ✓
5	Provision for making connection with HUDA main (L.S.) 1 job1 complete in all respect	1 @	175000	Rs. 1.75 2.00
6	Provision for cutting road and making good the same (L.S.) 1 job	1 @	50000	Rs. 0.50 ✓
TOTAL				Rs. 6.06 5.60
Add 3% contingencies				Rs. 0.18 0.17
TOTAL				Rs. 6.24 5.77
Add 49% Department charges, Price Escalation & other unforeseen Charges.				Rs. 3.06 2.83
TOTAL COST				Rs. 9.30 8.59

Material Statement and design statement of HUDA Rising Mains

S. No.	Name of line	Dia. in mm	Length in m from municipal to U.G.T.
1	Municiple Main To UGT	80	200



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Sub Work No-1

Water Supply

Sub Head No-04

Distribution system

SI No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)
1	Providing, laying, jointing & testing Cpvc pipes including cost of excavation complete as per ISI marked.			
1.1	25 mm I/D	1300 @	350	Rs. 4.55
1.2	32 mm I/D	133 @	400	Rs. 0.53
1.3	40 mm I/D	185 @	450	Rs. 0.83
1.4	50 mm I/D	82 @	575	Rs. 0.47
1.5	65 mm I/D	116 @	765	Rs. 0.90
1.6	80 mm I/D	142 @	825	Rs. 3.05
1.7	100 mm I/D	386 + 204 = 590 @	1460	Rs. 8.61
1.8	150 mm I/D	0 @	1225	Rs. 0.00
2	Providing and Fixing sluice valves including cost of brick masonry chamber complete in all respect.			
2.1	100 mm I/D	5 @	12000	Rs. 0.60
2.2	150 mm I/D	1 @	40000	Rs. 0.10
3	Providing and Fixing air valves and scour valves including cost of brick masonry chamber complete.	1 @	10000	Rs. 0.10
4	Providing and Fixing indicating plates for sluice valves	5 @	2000	Rs. 0.05
5	Provision for carriage of material & other foreseen items etc., (L.S). 1 Job including cutting of road and making the same.	1 @	50000	Rs. 0.50
	TOTAL			Rs. 12.38
	Add 3% contingencies			Rs. 0.37
	TOTAL			Rs. 12.75
	Add 49% Department charges, Price Escalation & other unforeseen Charges.			Rs. 6.25
	TOTAL COST			Rs. 19.00



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S. No.	Description	150 mm	100 mm	80 mm	65 mm	50 mm	40 mm	32 mm	25 mm
(A)	Domestic								
1	UGT-Domestic water supply line	-	-	15	0	-	-	-	-
2	Domestic water supply piping in basement ceiling	-	-	371	0	22	100	133	1300
	TOTAL	0	0	386	0	22	100	133	1300
(A)	Flushing								
1	STP-Flushing water supply line	-	10	0		-	-	-	-
2	Flushing water supply piping in basement ceiling & Vertical	-	20	56	118	60	85		
	TOTAL	0	30	56	118	60	85	0	0
	GRAND TOTAL	0	30	442	118	82	185	133	1300

Domestic line ~ 386 ml
Flushing line ~ 204 ml



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DOMESTIC WATER SUPPLY - HYDRAULIC DESIGN																			
S. No	Ref. of line	Length in mts	Self		Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD	Shop & Audi Visitor & Vendor @ 15 LPCD	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD	Shop & Audi Visitor & Vendor @ 15 LPCD	KLD	Domestic Water demand @ commercial @ 60% KLD	Peak Demand @ 3 time of AWWD	Dia of Pipe (mm)	Velocity m/sec	Loss of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start			Remarks
			Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD	Shop & Audi Visitor & Vendor @ 15 LPCD												HL (Mts)	DL (Mts)	TH (Mts)	
1	AT - UGT	-	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	-	-	-	-	340.00	300.00	40.00	Ground Level = +200 U.G.T. Bed Level=203 Add Building Head 8'-0"=2440 mts Add Suction Head=3.0 mts Delivery Head=5.0 Friction Head=3.0 mts Friction Loss=4.0 mts Head Level=350
2	UGT-W/S1	15	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	80	0.75	2.3968	0.3595	339.64	300.00	39.64	
3	(DWS1 -DWS2)	2.6	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	80	0.75	2.3968	0.0923	339.58	300.00	39.58	
4	(DWS2A -DWS2B)	21	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	25	0.75	644.7763	135.4030	204.18	300.00	-85.82	
5	(DWS2B -DWS2)	10	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	32	0.75	196.6659	18.6806	184.51	300.00	-115.49	
6	(DWS2 -DWS3)	8.5	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	80	0.75	2.3968	0.2037	184.20	300.00	-115.70	
7	(DWS3A -DWS3B)	21	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	25	0.75	644.7763	135.4030	48.90	300.00	-28.10	
8	(DWS3B -DWS3)	10	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	32	0.75	196.6659	18.6806	29.24	300.00	-270.76	
9	(DWS3 -DWS4)	8.5	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	80	0.75	2.3968	0.2037	29.03	300.00	-270.97	
10	(DWS4A -DWS4B)	21	-	-	-	-	Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 45 LPCD = 1120 persons = 78400 ltrs	Shop & Audi Visitor & Vendor @ 15 LPCD = 109960 ltrs	7332 persons = 109960 ltrs	140.27	420.82	25	0.75	644.7763	135.4030	-106.37	300.00	-406.37	

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11	(DWS4B-DWS4)	10	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	32	0.75	196.6658	18.6696	-126.04	300.00	-420.04	
12	(DWS4-DWS5)	23	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	0.5513	-126.59	300.00	-426.59	
13	(DWS5A-DWS5)	31	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	196.6606	-326.47	300.00	-526.47	
14	(DWS5-DWS6)	9	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	0.2157	-326.69	300.00	-526.69	
15	(DWS6A-DWS6)	31	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	196.6606	-326.57	300.00	-526.57	
16	(DWS6-DWS7)	6.8	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	0.1630	-526.73	300.00	-826.73	
17	(DWS7A-DWS7)	31	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	196.6606	-726.81	300.00	-1026.81	
18	(DWS7-DWS8)	26.7	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	60	0.75	2.3968	0.5400	-727.25	300.00	-1027.25	
19	(DWS8A-DWS8)	31	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	196.6606	-827.13	300.00	-1227.13	
20	(DWS8-DWS9)	15.8	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	0.3787	-927.51	300.00	-1227.51	
21	(DWS9A-DWS9)	47	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	303.0449	-1230.56	300.00	-1530.56	
22	(DWS9-DWS10)	50.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	1.2104	-1231.76	300.00	-1531.76	
23	(DWS10A-DWS10)	37.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	241.7911	-1473.56	300.00	-1773.56	

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24	(DWS10-DWS11)	0.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3958	0.0120	-1472.37	300.00	-1773.37	
25	(DWS11A-DWS11C)	28.7	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	185.0508	-1658.62	300.00	-1858.62	
26	(DWS11B-DWS11C)	21.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	136.6289	-1797.25	300.00	-2097.25	
27	(DWS11C-DWS11D)	1.7	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	32	0.75	196.6669	3.3433	-1800.59	300.00	-2100.59	
28	(DWS11E-DWS11D)	24.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	157.3702	-1958.56	300.00	-2258.56	
29	(DWS11D-DWS11)	11.3	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	40	0.75	87.2345	7.5975	-1886.16	300.00	-2286.16	
30	(DWS11-DWS12)	9.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3958	8.2277	-1966.38	300.00	-2266.38	
31	(DWS12A-DWS12D)	33.8	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	217.9344	-2184.32	300.00	-2484.32	
32	(DWS12B-DWS12D)	24.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	157.3702	-2342.29	300.00	-2642.29	
33	(DWS12C-DWS12D)	25.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7763	170.8657	-2513.15	300.00	-2813.15	
34	(DWS12D-DWS12)	11	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	40	0.75	87.2345	7.3958	-2520.55	300.00	-2820.55	
35	(DWS12-DWS13)	19	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3958	8.4054	-2531.61	300.00	-2831.61	
36	(DWS13-DWS14)	14.5	-	-	-	-	Shopkeepers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3958	8.3475	-2521.35	300.00	-2821.35	

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37	(DWS14A -DWS14)	28	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	180.5374	-2701.89	300.00	-3001.89	
38	(DWS14 -DWS15)	6.8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	80	0.75	2.3968	0.4930	-2702.05	300.00	-3002.05	
39	(DWS15A -DWS15)	27.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	177.5135	-3876.57	300.00	-3176.57	
40	(DWS15 -DWS16)	8.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	90	0.75	2.3968	0.2037	-3876.57	300.00	-3176.57	
41	(DWS16A -DWS16)	27.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	177.5135	-3056.86	300.00	-3356.86	
42	(DWS16 -DWS17)	8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	80	0.75	2.3968	0.1517	-3057.06	300.00	-3357.06	
43	(DWS17A -DWS17C)	22.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	145.5747	-3202.15	300.00	-3502.15	
44	(DWS17B -DWS17C)	22	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	141.3509	-3344.00	300.00	-3644.00	
45	(DWS17C -DWS17)	6.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	32	0.75	196.6669	16.7166	-3360.72	300.00	-3660.72	
46	(DWS17 -DWS18)	9	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	80	0.75	2.3968	0.2157	-3361.23	500.00	-3861.23	
47	(DWS18A -DWS18C)	39.2	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	185.2747	-3549.21	300.00	-3849.21	
48	(DWS18B -DWS18C)	21	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	25	0.75	644.7763	135.4020	-3684.61	300.00	-3984.61	
49	(DWS18C -DWS18)	8.7	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.786	140.27	420.82	32	0.75	196.6669	11.2100	-3695.82	300.00	-3995.82	

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50	(DWS18 -DWS19)	13.8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	90	0.75	2.3988	0.3308	-3016.15	300.00	-3566.15	
51	(DWS19A -DWS19C)	21	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	135.4030	-3831.56	300.00	-4131.56	
52	(DWS19B -DWS19C)	23.8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	153.4568	-3985.01	300.00	-4285.01	
53	(DWS19C -DWS19D)	5.6	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	32	0.75	196.6659	11.0133	-5996.03	300.00	-4296.03	
54	(DWS19E -DWS19D)	23.8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	153.4568	-4148.48	300.00	-4449.48	
55	(DWS19D -DWS19F)	6.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	32	0.75	196.6659	12.7633	-4163.27	300.00	-4463.27	
56	(DWS19G -DWS19F)	23.6	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	153.4568	-4315.72	300.00	-4615.72	
57	(DWS19F -DWS19H)	8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	40	0.75	67.2345	6.6511	-4321.77	300.00	-4621.77	
58	(DWS19H -DWS19H)	22.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	145.0747	-4465.85	300.00	-4766.85	
59	(DWS19H -DWS19Q)	4.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	40	0.75	67.2345	3.0256	-4469.87	300.00	-4769.87	
60	(DWS19J -DWS19K)	21	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	135.4030	-4605.28	300.00	-4905.28	
61	(DWS19L -DWS19K)	21	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	25	0.75	644.7763	135.4030	-4740.68	300.00	-5040.68	
62	(DWS19K -DWS19M)	13	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.768	140.27	420.82	32	0.75	196.6659	25.5666	-4786.35	300.00	-5086.35	

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76	(DWS20I-DWS20J)	21	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7783	135.4030	-5843.65	300.00	-4143.65	
77	(DWS20K-DWS20L)	21	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7783	135.4030	-5975.06	300.00	-4279.06	
78	(DWS20M-DWS20N)	1	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	32	0.75	196.6559	1.9667	-5981.52	300.00	-6281.52	
79	(DWS20H-DWS20I)	40	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	40	0.75	87.2345	26.8938	-6007.52	300.00	-6307.52	
80	(DWS20-DWS21)	18.9	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	3.3968	0.4530	-6008.27	300.00	-6308.27	
81	(DWS21A-DWS21C)	27.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7783	179.3478	-6187.52	300.00	-6487.52	
82	(DWS21B-DWS21C)	32.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7783	145.5747	-6332.59	300.00	-6632.59	
83	(DWS21C-DWS21)	21.3	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	32	0.75	196.6559	41.8698	-6374.59	300.00	-6674.59	
84	(DWS21-DWS22)	6.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	0.1558	-6374.74	300.00	-6674.74	
85	(DWS22A-DWS22C)	24	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7783	154.7463	-6525.48	300.00	-6825.48	
86	(DWS22B-DWS22C)	21.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	25	0.75	644.7783	135.5269	-6665.11	300.00	-6965.11	
87	(DWS22C-DWS22)	6.8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	22	0.75	196.6558	13.3733	-6681.48	300.00	-6981.48	
88	(DWS22-DWS23)	8.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litres	233.788	140.27	420.82	80	0.75	2.3968	0.2037	-6681.59	300.00	-6981.59	

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89	(DWS23A-DWS23)	30	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	193.4329	-4875.32	300.00	-7175.32	
90	(DWS23-DWS24)	8.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	80	0.75	2.3968	0.2037	-4875.32	300.00	-7175.32	
91	(DWS24A-DWS24)	35	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	193.4329	-7068.75	300.00	-7368.75	
92	(DWS24-DWS25)	6	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	80	0.75	2.3968	0.1438	-7068.80	300.00	-7368.90	
93	(DWS25A-DWS25)	30	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	193.4329	-7263.53	300.00	-7563.33	
94	(DWS25-DWS26)	2.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	80	0.75	2.3968	0.0589	-7263.38	300.00	-7563.28	
95	(DWS26A-DWS26C)	21.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	138.6268	-7401.02	300.00	-7701.02	
96	(DWS26B-DWS26C)	20.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	132.1781	-7533.20	300.00	-7833.20	
97	(DWS26C-DWS26)	5.8	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	32	0.75	196.8659	18.2733	-7552.47	300.00	-7852.47	
98	(DWS26-DWS27)	4	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	80	0.75	2.3968	0.0858	-7652.57	300.00	-7852.57	
99	(DWS27A-DWS27B)	26	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	167.8418	-7720.31	300.00	-8020.31	
100	(DWS27C-DWS27E)	21.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	138.6268	-7658.84	300.00	-8158.84	
101	(DWS27D-DWS27E)	20.5	-	-	-	-	Shoppers & Staff -914 person =41130 litr	1120 persons = 78400 litr	7332 persons = 109980 litr	233.768	140.27	420.82	25	0.75	644.7763	132.1781	-7891.02	300.00	-8291.02	

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102	(DWS27E-DWS27B)	6	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	32	0.75	196.8658	11.8000	-4002.82	300.00	-8302.82	
103	(DWS27B-DWS27F)	7.4	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	32	0.75	196.8658	14.5533	-4017.27	300.00	-4317.27	
104	(DWS27G-DWS27F)	25.3	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	25	0.75	544.7763	170.8657	-8188.24	300.00	-8488.24	
105	(DWS27F-DWS27)	8.3	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	40	0.75	67.2345	5.5805	-8192.82	300.00	-8492.82	
106	(DWS27-DWS28)	19.8	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	80	0.75	2.3968	0.4746	-8194.29	300.00	-8494.29	
107	(DWS28A-DWS28)	30	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	25	0.75	544.7763	182.4329	-8387.72	300.00	-8687.72	
108	(DWS28-DWS1)	5.6	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	80	0.75	2.3968	0.1390	-8387.86	300.00	-8687.86	
109	(DWS1-PLANTROOM)	21	-	-	-	-	Shoppers & Staff = 914 person = 41130 ltr	1120 persons = 78400 ltr	7332 persons = 109680 litres	233.786	140.27	420.82	80	0.75	2.3968	0.5033	-8388.37	300.00	-8688.37	

NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.

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For Peerage Buildwell Pvt Ltd

Abhishek
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COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION WITH

FLUSHING WATER SUPPLY - HYDRAULIC DESIGN

S. No	Ref of line	Length in mts.	Self	Additional	AVWD	Flushing @ 80% commercial K.L.D.	Peak Demand @ 3 times of AVWD	Dis. of Pipe (mm)	Velocity m/sec	Loss of Head in 1000 M (mts)	Loss of head in the line (mts)	Level in start	HL (Mts)	TH (Mts)	Remarks
1	AT & T.P.		Shopkeepers & Food & Beverage Staff @ 35 LPCD & Restaurant @ 48 LPCD	Shop & Audit Valler & Valler @ 15 LPCD	7332 persons @ 109600 litres	233.788	93.515	280.55	0.75	-	-	340.00	300.00	40.00	Ground Level +332 U.G.T. Bed Level=332 Add Building Head B+H=440 mts Suction Head=3.0 mts Delivery Head=3.0 mts Friction Loss=4.0 mts Head Level=380
2	STR-FWS5	10	-	Shopkeepers & Food & Beverage Staff @ 15 LPCD	7332 persons @ 109600 litres	233.788	93.515	280.55	0.75	0.3033	0.3033	338.98	300.00	38.98	
3	(FWS5A-FWS5)	85	-	-	-	233.788	93.515	280.55	0.75	32.2760	27.4338	312.83	300.00	12.83	
4	(FWS5-FWS3)	20	-	-	-	233.788	93.515	280.55	0.75	0.3833	0.0787	312.45	300.00	12.45	
5	(FWS3A-FWS3)	60	-	-	-	233.788	93.515	280.55	0.75	11.0338	8.6307	305.83	300.00	5.83	
6	(FWS3-FWS2)	95	-	-	-	233.788	93.515	280.55	0.75	1.1306	0.8443	305.18	300.00	5.18	
7	(FWS2-FWS1)	118	-	-	-	233.788	93.515	280.55	0.75	3.1286	3.8859	301.50	300.00	1.50	

NOTE: 1. Water supply Line shall be laid as per NBC / HUDA Norms.

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Sub Work No-1					Water Supply	
Sub Work No-05					Fire fighting	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs.)
1	Providing, laying jointing & testing M.S. pipe lines for rising main including cost of fitting, valves, connection etc., complete in all respects.					
	150 mm I/D for Ring Main	780	@	2040/ 1160.00	Rs.	-8.97-15.91
	100 mm I/D for Tanker Inlet	30	@	1460/ 950.00	Rs.	-0.29-0.44
	80 mm I/D for Yard Hydrant pipe	15	@	1250/ 900.00	Rs.	0.14
2	Providing & fixing valve including cost of surface boxes and masonry chambers etc. complete in all respects					0.19
	- 150 mm dia.	3	@	15000.00	Rs.	-0.42
	- 100 mm dia.	1	@	10000.00	Rs.	0.10
	- 80 mm dia.	0	@	8000.00	Rs.	0.00
3	Providing and fixing fire Hydrant with accessories	13	@	10000.00	Rs.	1.30
						1.95
4	Providing Fire Diesel pumps of 84.5 HP capacity 2850 LPM at 80 M head, 1 Nos. each & @ Rs. 22,50,000/- each complete with panel, foundation etc.	1	@	2250000.00 16.90	Rs.	22.50 16.90
5	Providing Fire Main pumps of 84.5HP, capacity 2850 LPM at 80 M head, 1 Nos. each & @ Rs. 17,00,000/- each complete with panel, foundation etc.	2	@	1700000.00 16.90	Rs.	34.00 33.80
6	Providing Fire Jockey pumps of 7.5 HP, capacity 180 LPM at 80 M head, 1 Nos. each & @ Rs. 5,00,000/- each complete with panel, foundation etc.	2	@	500000.00 1.50	Rs.	40.00 3.00
7	Providing Water curtain pumps of 75.8 HP, capacity 4550 LPM at 45 M head, 1 Nos. each & @ Rs. 12,50,000/- each complete with panel, foundation etc.	1	@	1250000.00 15.0	Rs.	12.50 15.0
8	Providing for carriage of material (L.S.) 1 jobs	1	@	50000.00	Rs.	0.50
9	Providing and fixing Indicating plate	13	@	2000.00	Rs.	0.26
TOTAL					Rs.	-90.84 88.52
Add 3% contingencies					Rs.	-2.73 2.65
TOTAL					Rs.	-93.57 91.17
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	-45.85 44.68
TOTAL COST					Rs.	139.41 135.85

For Peerage Buildwell Pvt Ltd

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COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION WITH PEERRAGE BUILDWELL PVT. LTD.

Material Statement of Fire ring – MS – 150mm dia

S. No.	Location	200 mm dia pipe	150 mm dia pipe	100 mm dia pipe	80 mm dia pipe	Fire Hydrant
1	UGT to Fire Ring	-	15	-	-	-
2	Fire Ring Pipe	-	750	-	-	-
3	Tanker inlet connection	-	-	15	-	-
4	Fire Brigade 4 way	-	15	-	-	-
5	Fire Brigade 2 way	-	0	15	-	-
6	Yard Hydrants = 13 Nos. x 1 Meters	-	-	-	15	13
	Total	0	780	30	15	13
Fire Hydrant System						
1	Valves 150mm dia				3 Nos.	
2	Valves 100mm dia				1 No.	
3	Valves 80mm dia				0 Nos.	
4	Fire Hydrants				13 Nos.	
5	Fire Brigade Connections 4 Way				1 No.	
6	Fire Brigade Connections 2 Way				1 No.	

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Sub Work No-1					Water Supply	
Sub Work No-06					Irrigation	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, laying, jointing and testing uPVC pipe line conforming to I.S 4985 including cost of excavation etc., complete in all respects.					
	32 mm O/D for Garden Hydrants	23	@	350/- 200	Rs.	0.08
	75 mm O/D UPVC Pipe for Ring Main	700	@	675/- 650	Rs.	-3.85 4.73
	90 mm O/D from STP to Ring Main	25	@	75/- 650	Rs.	0.16
2	Providing and fixing Irrigation hydrant valve complete in all respect.	23	@	2000	Rs.	0.46 1.15 lacs
3	Provision for carriage of material & other foreseen items etc., (L.S.) 1 jobs				Rs.	0.50
4	Providing & fixing ball valve 25 mm	23	@	250	Rs.	0.06
5	Providing & fixing sluice/Butterfly valve complete with chamber.					
5.1	65 mm dia.	2	@	6500	Rs.	0.13
5.2	80 mm dia.	1	@	8000	Rs.	0.08
6	Providing and fixing Irrigation pump 2 nos., 1.0 HP, 30 LPM @ 35 Mtr. Head complete with foundation & control panel etc.	2	@	25000	Rs.	0.50
TOTAL					Rs.	-5.79 7.42
Add 3% contingencies					Rs.	-0.17 0.22
TOTAL					Rs.	-5.96 7.64
Add 49% Department charges, Price Escalation & other unforeseen Charges.					Rs.	-2.92 3.74
TOTAL COST					Rs.	-8.88 11.78 lacs
Material statement of Irrigation System						
S. No.	Line Name	90 mm	75 mm OD	50 mm OD	32 mm OD	Irrigation Hydrants
1	Pump Room to G1	25				
2	Irrigation Ring	0	700			
3	GARDEN HYDRANT (23 Nos x 1 M)				23	23
	Total	25	700	0	23	23

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Sub Work No-II					Sewerage Scheme	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing, jointing, cutting and testing S.W.R. PVC pipe including all bends fitting, clamps etc. Complete in all respect running in basement ceiling.					
	200mm dia	0	@	900.00	Rs.	0.00
	150mm dia (L.S.)	0	@	2040 700.00	Rs.	0.00
	100mm dia	0	@	500.00	Rs.	0.00
2	Provision for lighting and watching L.S	0	@	50000.00	Rs.	0.00
3	Provision for timbering and shuttering L.S.	0	@	50000.00	Rs.	0.00
4	Provision of 150 mm dia line form STP to HSVP main by pumping	0	@	(L.S.) 1000.00	Rs.	7.50 0.00
5	Providing Boosting arrangement by pumps 5 HP, capacity 265 LPM at 50 M head, 2 Nos. each & @ Rs. 100,000/- each (For Flushing) complete with panel, foundation etc.	2	@	100000.00	Rs.	2.00
6	Provision for making STP (KLD)	210 KLD 230	@	16000 10000.00	Rs.	33.60 23.00
7	Provision for carriage of material (L.S.)	1	@	40000.00	Rs.	0.40 1.00
8	Provision of cutting road & making it good as same in original condition - 1 job	1	@	50000.00	Rs.	1.00 0.50
9	Providing Sewage with HSVP cornechm	1	@	100000.00	Rs.	1.00
TOTAL					Rs.	26.90
Add 3% contingencies					Rs.	0.81
TOTAL					Rs.	27.71
Add 49% Department charges, price escalation, other for unforeseen charges.					Rs.	13.58
TOTAL COST					Rs.	41.28

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Sub Work No-III			Storm water drain			
S. No.	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)		
1	Providing, lowering, laying and jointing R.C.C NP-3 pipes and specials into trenches including manholes, chambers etc., excavation, back filling and disposal of surplus earth complete in					
	400 mm I/D Avg. depth upto 2.0 M.	20	@ 1350	Rs.	0.27	0.68 lacs
	450 mm I/D Avg. depth upto 2.0 M.	650 m	@ 1550	Rs.	0.08	
2	Provision for Road Gullies L.S.	LS	2500	Rs.	0.50	1625 lacs
3	Provision for lighting and watching	LS		Rs.	0.50	0.50
4	Provision for timbering and shoring L.S.	LS		Rs.	0.50	
5	Provision for carriage of material & other foreseen items etc., L.S.	LS		Rs.	0.50	25.00
6	Provision for Rain water harvesting arrangements for 3.9625 Acres @ 3.50 Lac / Acres	3.9625	@ 350000	Rs.	5.94	14.00
7	Provision for temporary connection with HUDA	main		Rs.	0.50	
8	TOTAL			Rs.	8.79	45.88
	Add 3% contingencies			Rs.	0.26	1.33
	TOTAL			Rs.	9.05	47.25
	Add 49% Department charges, price escalation, other for unforeseen charges.			Rs.	4.44	23.15
	TOTAL			Rs.	13.49	70.40 lacs

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SUB WORK NO. - IV

Road Work

Sl No	DESCRIPTION	Qty	Rate	AMOUNT (In Lacs)
1	Provision for leveling - earth filling / cutting as per site conditions. (In Acres) Area = 3.9625 Acre	3.9625	@ 100000	396.25
2	Provision for Granular sub base 100mm, 150 mm thick stone aggregate, 50 mm thick B.M., 30 mm thick pre-mix carpet with seal coat	3564	@ 1500/-	53.46
3	Provision of Paved path of C.C. 1:2:4	1200	@ 1200	1.44
4	Provision for Kerbs & channels of CC 1:2:4	1200	@ 350	0.42
5	Provision for making approach to each block for C.C. pavements L.S.		@ 50000	0.50
6	Provision of guide maps at selected place (L.S.)		@ 50000	0.50
7	Provision for Traffic Lights arrangement - L.S.		@ 80000	0.30
8	Provision for Demarcating Durgies - L.S.		@ 50000	0.50
9	Provision for Plot indicator - L.S.		@ 50000	0.50
10	Provision for Parking Arrangement, L.S.		@ 150000	1.50
11	Provision of carriage of material and unforeseen items - L.S.		@ 50000	0.50
	TOTAL			33.88
	Add 3% contingencies			1.02
	TOTAL			34.90
	Add 49% Department charges, price escalation, other for unforeseen charges.			17.10
	TOTAL			52.00

92.09
2.76
94.85
46.47
141.32 lacs

Road Work

S. No.	Name of Road	Length of Road (in Mtrs.)	Road Width	Metalled Width (Mtrs.)	Area in Sqm.
	A	B	C	D	B x D
1	Road No.A	540		6	3240.00
2	Road No.B	0		6	0.00
	Total	540			3240.00
	Add 10 % for curves				324.00
	Total				3,564.00
	Add for surface plaza/ parking				-
	Total				3,564.00
	Say				3,564.00

Total Length of road	540	
Add 10% curves	54	
Total Length	594	
Say	600	Mtrs.
No. of CAR Parking = 0 Nos.	0	Nos.
Surface Plaza Area = 2X5X3	0	Sqmts.
CC foot paths on both side road		
CC foot paths on both side = 2m x length of road	1200	Mtrs.

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CA No. 80/57



COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION WITH PEERRAGE BUILDWELL PVT. LTD.

Sub Work No-V					Street Lighting	
Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Providing street lighting on roads as per standard specifications on HVPN Area = 3.9625 Acre	3.963	@	2.50 lacs 100000	Rs.	9.90 lacs 3.96
	TOTAL				Rs.	3.96
	Add 3% contingencies <i>ex. PE charges</i>				Rs.	0.12 0.30 lacs
	TOTAL				Rs.	4.08 15.20 lacs
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	2.00 5.00 lacs
	TOTAL				Rs.	6.08 15.20 lacs

C.O. to final abstract of cost



GIAN P. MATHUR
ARCHITECT
B. Arch., M.C.A. I.I.A.
CA No. 80/5769

For Peerage Buildwell Pvt Ltd

[Signature]
Authorised Signatory

COMMERCIAL COLONY AREA MEASURING 3.9625 ACRES (LICENCE NO. 47 DATED 18/04/2022) IN
SECTOR-89, GURUGRAM BEING DEVELOPED BY SMART ARENA HOMETOWN LLP IN COLLABORATION
WITH PEERRAGE BUILDWELL PVT. LTD.

Sub Work No-VI					Plantation & Road side trees	
SI No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Development of Lawn Area :- a) Trenching the ordinary soil upto depth of 60 cm. including removal and packing of serviceable material and disposing at a lead of 50 M. and making up the trenched area to proper level by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure. b) Rough dressing of trenched area. c) Grassing with "grass" including watering and maintenance of lawns free from weeds and fit for moving in rows 7.50 cm. in either direction including for hedges and grill and barred wire fencing around park and green belts (As per HSVP norms)					
	Area = 3.9625 Acre	3.9625	@	100000	Rs.	-3.96 5.94
2	Providing & Planting of trees with tree guards on roads at 12 m intervals					
	Total Road Length (M.)	600				
	Trees @ 12 M. c/c	50				
	Say (1x 50) = 50 Or Say	50				
	Cost of One Tree :-					
	Excavation (Rs.) 30/-					
	Manure (Rs.) 40/-					
	Tree Plants (Rs.) 80/-					
	Tree Guards (Rs.) 600/-					
	Total Cost (each)					
	Cost of Total trees	50	@	2310	Rs.	1.155 /a 0.03
	TOTAL				Rs.	3.99 7.10 /a
	Add 3% contingencies & PE charges				Rs.	0.12 0.21 /a
	TOTAL				Rs.	4.11 7.31 /a
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	2.02 3.58 /a
	TOTAL				Rs.	6.13 10.89 /a



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SUB WORK NO. VII:

MTC. CHARGES AND RESURFACING OF ROADS.

Sl No	DESCRIPTION	Qty		Rate		AMOUNT (In Lacs)
1	Provision for maintenance charges for water supply, sewerage, storm water, drainage, roads, street light, Hort., etc. complete including operation & establishment charges as per HSVP norms after completion.					
	Area = 3.9625 Acre	3.9625	@	280000	Rs.	11.10
2	Provision for resurfacing of roads after first five years of maintenance i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	3564	@	250	Rs.	8.91
3	Provision for resurfacing of roads after 10 years of Mtc. i.e. 20mm thick premix carpet with seal coat with mechanical paver. (Sqm)	3564	@	200	Rs.	7.13
	TOTAL				Rs.	27.13
	Add 3% contingencies				Rs.	0.81
	TOTAL				Rs.	27.95
	Add 49% Department charges, price escalation, other for unforeseen charges.				Rs.	13.69
	TOTAL				Rs.	41.64

31.70 lacs

84.62 lacs

2.53 lacs

87.15 lacs

42.70 lacs

129.85 lacs

C.O. to final abstract of cost



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Abhishek
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