

Directorate of Town & Country Planning, Haryana

Nagar Yojana Bhavan, Plot No. 3, Sector 18 A, Madhya Marg, Chandigarh

Phone: 0172-2549349 e-mail:tcpharyana7@gmail.com

website:-http://tcpharyana.gov.in

To

✓ Active Promoters Pvt. Ltd, Flip Propbuild Pvt. Ltd,
Globule Propbuild Pvt. Ltd, Gull Propbuild Pvt. Ltd.
Sankalp Promoters Pvt. Ltd. Sriyam Estates Pvt. Ltd,
Yukti Projects Pvt. Ltd., Gable Propbuild Pvt. Ltd.
Gaff Propbuild Pvt. Ltd. Gravel Propbuild Pvt. Ltd.
Guffaw Propbuild Pvt. Ltd, Logical Developers Pvt. Ltd,
Rosegate Estates Pvt. Ltd. Gyankunj Estates Pvt. Ltd.
Gloss Propbuild Pvt. Ltd, Monarch Buildcon Pvt. Ltd,
Zonex Estates Pvt. Ltd, Sriyam Estates Pvt. Ltd.
Sarvodaya Buildcon Pvt. Ltd, Grebe Propbuild Pvt. Ltd.
in collaboration with Worldwide Resorts and Entertainment Pvt. Ltd.
725/2 DD 2 Block-A, Shastri Nagar,
New Delhi-110052.

Memo No. LC-4711/PA(VA)/2023/ 6505

Dated: 03-03-2023

Subject: Approval of Service Plan/Estimates of Industrial Plotted Colony over an area measuring 118.125 acres (Licence no. 136 of 2022 dated 08.09.2022) falling in the revenue estate of village Bans Haria and Bans Khusla in Sector M-9, M-10, M-13 & M-14, Manesar, District Gurugram.

The service plan estimates for aforesaid colony have been checked and corrected wherever necessary by Chief Engineer, Infra-II, GMDA, Gurugram and are hereby approved subject to the following terms & conditions:

1. That you will abide by all the conditions and notes mentioned in the Service Plan Estimates of the subject cited colony contained in the Chief Engineer, Infra-II, GMDA office memo dated 09.11.2022.
2. That you will have to pay the proportionate cost to the External Development Charges for setting up of Industrial Plotted Colony for the services like water supply, sewerage, storm water drainage, roads, bridges, community building, street lighting, horticulture and maintenance thereof etc. on gross acreage basis as and when determined by GMDA. These charges will be modifiable as and when approved by the authority/State Govt. and will be binding upon the colonizer.
3. The category wise area shown on the plans and proposed density of population thereof has been treated to be correct for the purpose of services only.
4. That you shall be responsible for maintenance and upkeep of all roads, open spaces, public parks and public health services for a period of five years from the date of issue of the completion certificate under rule 16 unless earlier relieved of this responsibility and there upon to transfer all such roads, open spaces, public parks and public health services free of cost to the Government or the local authority, as the case may be.
5. The wiring system of street lighting will be under ground and the specifications of the street lighting fixture etc. will be as per relevant standard of HVPNL. LED lamps shall be provided to meet the requirement of HVPNL and as well environment.

6. It is made clear that appropriate provision for fire-fighting arrangement as required in the NBC/ISI should also be provided by you and fire safety certificate should also be obtained from the competent authority before undertaking any construction. You shall be sole responsible for fire safety arrangement.
7. All technical notes and comments incorporated in the estimates in two sheets will also apply. A copy of these is also appended as Annexure-A.
8. That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution of Act 1981) and Water (Prevention and Control of Pollution of 1974). In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Controlled Board or any other Authority Administering the said Acts.

A copy of the approved service plan/estimates is enclosed herewith. You are requested to supply three additional copies of the approved service plan/ estimates to the Chief Engineer, Infra-II, GMDA, Gurugram under intimation to this office.

DA/As Above.


(S.K. Sehrawat)
District Town Planner (HQ)
For Director General, Town & Country Planning,
Haryana, Chandigarh

Endst. No. LC-4711/PA(VA)-2023/

Dated:

A copy is forwarded to the Chief Engineer, Infra-II, GMDA, Gurugram with reference to his memo No. EIC II-214001/5/2022-Engineer Projects Infra II dated 09.11.2022 for information and necessary action please.

(S.K. Sehrawat)
District Town Planner (HQ)
For Director General, Town & Country Planning,
Haryana, Chandigarh

118.15 ACRES INDUSTRIAL PLOTTED COLONY FALLING IN SECTORS M9, M10, M13 AND M14 OF MANESAR IN THE REVENUE ESTATE OF VILLAGE BANS HARIA AND BANS KUSHLA TEHSIL HASRU, DIST- GURUGRAM, HARYANA

DEVELOPED BY M/S WORLDWIDE RESORTS AND ENTERTAINMENT PVT. LTD.

ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 118.15 ACRES INDUSTRIAL PLOTTED COLONY FALLING IN SECTORS M9, M10, M13 AND M14 OF MANESAR IN THE REVENUE ESTATE OF VILLAGE BANS HARIA AND BANS KUSHLA TEHSIL HASRU, DIST- GURUGRAM, HARYANA.

Manesar is a town and municipal corporation, nearby Gurugram City in the Gurugram district of the state of Haryana, India and a part of the National Capital Region (NCR) of Delhi. It is an industrial hub. Its proximity to the burgeoning city of Gurugram 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. Manesar is 32 kilometres (20 mi) from Indira Gandhi International Airport and is located on National Highway 48, making it well connected with New Delhi, Gurugram, Rewari, Dharuhera (Rewari), Jaipur, Ahmedabad and Surat.

PROJECT REPORT/ESTIMATE FOR PROVIDING WATER SUPPLY, SEWERAGE, STORM WATER DRAINAGE, ROADS, STREET LIGHTING AND HORTICULTURE IN RESPECT OF 118.15 ACRES INDUSTRIAL PLOTTED COLONY FALLING IN SECTORS M9, M10, M13 AND M14 OF MANESAR IN THE REVENUE ESTATE OF VILLAGE BANS HARIA AND BANS KUSHLA TEHSIL HASRU, DIST- GURUGRAM, HARYANA.

The Haryana Government has prepared a master plan for development of Residential/Industrial/ Commercial urban estate Manesar. Project is developed by M/S Worldwide Resorts and Entertainment Pvt Ltd. They have decided to develop the area in this master plan as an industrial plotted colony for an area measuring 118.15 Acres in the sectors M9, M10, M13 and M14 of Manesar in the Revenue Estate of Village Bans Haria and bans Kushla Tehsil Hasru, Dist- Gurugram, Haryana.

Water Supply

1 Source

The source of water supply in this area is from ~~HSVP~~ ^{GMDA} however 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.~~ ^{GMDA}

For the Worldwide Resorts And Entertainment Pvt. Ltd.


Authorized Signatory

2 Design

The scheme has been designed for approved population of **6804 persons in DDJAY plots in 118.15 acres**. The rate of water supply per head per day has been taken as 172.5 litres (150+15%) for DDJAY plots and 15 KL/acre for industrial plots as per NBC 2016 / HSP 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 in 4 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 for DDJAY plots and 15 KL/acre for Industrial plots @ 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 30.00 meters so that it can serve the stilt and four floors stories 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 HSP 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.

For Worldwide Resorts And Entertainment Pvt. Ltd.


Authorised Signatory

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 recharging 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 estimate.

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 main 9 m wide colony road connects with 24 m sector road. Internal service of the roads of the colony 9m wide provide approach for construction of roads to the plots. 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

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Street lighting system has been designed to provide illumination of 15 to 20 lux on roads. Street lights are provided on 6 m high steel tubular poles are located on one side of 9.0 m wide road. Luminaries with 65 watts LED lights 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 specification 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. 7302.34 Lacs~~ ^{82.82.29} 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. 61.81 Lacs/acre~~ ^{70.89} 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

A DDJAY PLOTS BLOCK-D- 21.4264 ACRES

	For 118.15 Acres	Unit
Daily water requirement		
Total No. of Plots (General)	Acres 378 ✓	Nos
Population per plot (General)	18 ✓	Person/Plot
1 Therefore population (General)	6804 ✓	Persons
Total Population	6804 ✓	Persons

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Total daily Water requirement for plots (150 LPCD + 15%)		Say	6804	Persons	
		@	172.5	LPCD	
			Domestic @ 65%	Flushing @ 35%	
			762898.50	410791.50	LPD
Or Say			762.90	410.80	KLD (1)
2 Non Residential building water requirement					
a	No. of commercial area		1	No.	
	Daily water requirement		32000	Ltrs/Acre/day	
	Area of commercial	@	0.8928	Acre	
	Daily water requirement	@	20800	11200	Ltrs/Acre/day
	Therefore daily water requirement	Or Say	18570.24	9999.36	lit/day
			18.57	10.00	KLD
b	No. of community center		1	No.	
	Area of community center		2.1428	Acre	
	Daily water requirement	@	25000	lit/acre/day	
	Daily water requirement	Or Say	34820.5	18749.5	lit/day
			34.82	18.75	KLD
c	No. of milk booth		1	No.	
	Daily water requirement	@	1000	lit/acre/day	
	Daily water requirement	Or Say	650	350	lit/day
			0.65	0.35	KLD
Total 2 (a+b+c)			54.04	29.10	KLD (2)
3	Area under Parks		1.629	Acre	
	Daily water requirement	@	25000	lit/acre/day	
	Therefore daily water requirement			40725	lit/day

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4	Area under Roads		40.73	KLD
	Daily water requirement	@	3.6918	Acre
	Therefore daily water requirement		5000	lit/acre/day
			18459	lit/day
			18.46	KLD
1	Total daily requirement	Total		
a)	For (1+2)		59.18	KLD
b)	Under Road+ Parks (3+4)		816.94	KLD
			439.90	KLD
			0.00	KLD
	Total Daily Requirement		59.18	KLD
			816.94	KLD
			499.08	KLD
		Or Say	817.00	KLD
			500.00	KLD
B	INDUSTRIAL PLOTS BLOCK-A			
	Daily water requirement			
			Acres	
1	Total area of Industrial Plots		75630.087	Sqm
	Daily Water requirement for Industrial plots (15 kl/acre)	@	18.689	Acres
			15	Kl /Acre
	Total water requirement		Domestic @ 65%	Flushing @ 35%
			182.21	98.12
				KLD
2	Total area of Skill development		2000.0	Sqm
	Daily Water requirement for Skill development (32 KL/ACRE)	@	0.494	Acres
			32	KL/ACRE
	Total water requirement		Domestic @ 65%	Flushing @ 35%
			10.28	5.54
				KLD

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3	Total area of Health centre		500.0 ✓	Sqm	
	Daily Water requirement for Health centre (32 KL/ACRE)	@	0.124 ✓	Acres	
			32 ✓	KL/ACRE	
	Total water requirement		Domestic @ 65% 2.57 ✓	Flushing @ 35% 1.38 ✓	KLD
4	Total area of community and anganwadi		400.0	Sqm	
	Daily Water requirement for Health centre (32 KL/ACRE)	@	0.099	Acres	
			25	KL/ACRE	
	Total water requirement		Domestic @ 65% 1.61 ✓	Flushing @ 35% 0.86 ✓	KLD
	Total water requirement (1+2+3+4)		196.67 ✓	105.90 ✓	KLD ✓
5	Area under Parks		2017.467 ✓	Sqm	
	Daily water requirement	@	0.50 ✓	Acre	
	Therefore daily water requirement		25000 ✓	lit/acre/day	
			12463 ✓	lit/day	
			12.48 ✓	KLD	12.46
6	Area under Roads		5.42	Acre	
	Daily water requirement	@	5000	lit/acre/day	
	Therefore daily water requirement		27100	lit/day	
			27.10	KLD	27.10
	Total water requirement (5+6)		39.56	KLD	39.56

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I Total daily requirement for Block-A			
a) Total Domestic water requirement for Industrial plots	196.67 ✓	KLD	
b) Treated water required Industrial+Under Road+ Parks	145.46 ✓	KLD	
Total Daily Requirement for Block-A	342.13 ✓	KLD	
C INDUSTRIAL PLOTS BLOCK-B			
Daily water requirement			
	Acres		
1 Total area of Industrial Plots	36687.389	Sqm	
Daily Water requirement for Industrial plots (15 kl/acre)	9.066 ✓	Acres	
	15	Kl /Acre	
Total water requirement	Domestic @ 65%	Flushing @ 35%	
	88.39 ✓	47.59 ✓	KLD
Total water requirement (1)	88.39 ✓	47.59 ✓	KLD
2 Area under Parks	696.463 ✓	Sqm	
Daily water requirement	0.17	Acres	
Therefore daily water requirement	25000	lit/acre/day	
	4302	lit/day	
	4.30 ✓	KLD	4.30
3 Area under Roads	3.61	Acres	
Daily water requirement	5000	lit/acre/day	
Therefore daily water requirement	18050	lit/day	
	18.05	KLD	18.05
Total water requirement (2+3)	22.35	KLD	22.35
I Total daily requirement for Block-B			
a) Total Domestic water requirement for Industrial plots	88.39 ✓	KLD	
b) Treated water required Industrial+Under Road+ Parks	69.95 ✓	KLD	69.95

Total Daily Requirement for Block-B		158.34	KLD
D	INDUSTRIAL PLOTS BLOCK-C		
	Daily water requirement		
		Acres	
1	Total area of Industrial Plots	123232.517	Sqm
	Daily Water requirement for Industrial plots (15 kl/acre)	30.451	Acres
		15	KL/Acre
	Total water requirement	Domestic @ 65%	Flushing @ 35%
		296.90	159.87
2	Total area of Skill development	2000.0	Sqm
	Daily Water requirement for Skill development (32	0.494	Acres
		32	KL/ACRE
	Total water requirement	Domestic @ 65%	Flushing @ 35%
		10.28	5.54
3	Total area of Health centre	500.0	Sqm
	Daily Water requirement for Health centre (32	0.124	Acres
		32	KL/ACRE
	Total water requirement	Domestic @ 65%	Flushing @ 35%
		2.57	1.38
4	Total area of community and anganwadi	400.0	Sqm
	Daily Water requirement for Health centre (32	0.099	Acres
		25	KL/ACRE
	Total water requirement	Domestic @ 65%	Flushing @ 35%
		1.61	0.86
	Total water requirement (1+2+3+4)	311.36	167.65
			KLD
5	Area under Parks	15076.641	Sqm
	Daily water requirement	3.73	Acres
	Therefore daily water requirement	25000	lit/acre/day
		93138	lit/day
		93.14	KLD
6	Area under Roads	9.03	Acres
	Daily water requirement	5000	lit/acre/day
	Therefore daily water requirement	45150	lit/day
		45.15	KLD
	Total water requirement (5+6)	138.29	138.29
			KLD

I Total daily requirement for Block-C

a) Total Domestic water requirement for Industrial plots

311.36 ✓ KLD

b) Treated water required Industrial+Under Road+ Parks

305.94 ✓ KLD

Total Daily Requirement for Block-C

617.30 ✓ KLD

II Total daily requirement for Industrial Plots Block-A, Block-B, Block-C

a) Total Domestic water requirement for Industrial plots

596.42 ✓ KLD

b) Treated water required Industrial+Under Road+ Parks

521.35 ✓ KLD

III A-Tubewell for DDJAY plots Block-D

Assuming working hours of tubewells

16 ✓ hours

Assuming discharge/hour of each tubewell

20 ✓ KL/hours

Total domestic water requirement

817 ✓ KLD

No. of tubewells required

2.55 ✓

Add 10% standby

0.26 ✓

Total

2.81 ✓

Proposed

3.00 ✓

So It is proposed 3 nos of tubewell for DDJAY plots. The provision of 3 no of tubewell has been made in the estimate because the water demand for Residential horticulture and the road washing purpose is to be met from re circulated after treatment at STP and ultimate water supply is to be provided by HSVP.

For Worldwide Resorts And Entertainment Pvt. Ltd.

Authorised Signatory

B-Tubewell for Industrial Plots Block- A, B,C

Assuming working hours of tubewells

Assuming discharge/hour of each tubewell

Total domestic water requirement

No. of tubewells required

Add 10% standby

16

hours

20

KL/hours

596

KLD

1.86

0.19

Total

2.05

Proposed

2.00

So It is proposed 2 nos of tubewell for Industrial plots. The provision of 2 no of tubewell has been made in the estimate because the water demand for Industrial, horticulture and the road washing purpose is to be met from re circulated after treatment at STP and ultimate water supply is to be provided by HSVP.

III Pumping machinery for tubewella) Gross working head *head*

b) Average Fall in S.L.

c) Depression head

d) Friction loss

=

75.00

m

=

3.05

m

=

6.10

m

=

2.50

m

=

86.65

m

Say

=

90.00

m

$$\text{BHP} = (20 \times 1000 \times 90) / (60 \times 60 \times 75 \times 0.6)$$

With 60% efficiency

Proposed

11.11

HP

12.50

HP

It is proposed to install **5 no. Submersible pumping set** with a discharge of 20000 ltr./hour (335 lpm) driven with 12.5 HP electric motor.

IV Underground Tank**A- FOR DDJAY PLOTS BLOCK- D**

Daily requirement for domestic use and other except fire fighting

=

816.94

KLD

Capacity of under ground tank 14 hr storage except fire fighting @ 60% storage requirement

=

490.16

KLD

Say

=

500.00

KLD

Total Population in General plots

=

6804

Person

Total Population in Commercial area

=

1204

Person

Total Population in community centre

=

2891

Person

18 Person/plot

3 sqm/ Person

3 sqm/ Person

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Total person

Fire Tank Capacity as $100 \times [\text{sqrt}(10899) / 1000] \times 1/3$

	=	10899	Person
Say	=	110.04	KLD
		110.00	KLD
Total		610.00	KLD

It is proposed to provide 1 no. under ground tank of capacity **610 KL** which also includes **110 KL** capacity for **fire fighting**.
Tank will have four compartments, Two for fire, one for raw and one for domestic use. The water first enters the fire compartment, then over flows to the domestic water use compartment so that the water in the fire compartment shall remain fresh.

It is proposed to provide under ground tank of following capacity

- a) Capacity of Fire tank-1
- b) Capacity of Fire tank-2
- c) Capacity of Raw tank
- d) Capacity of Domestic tank

55.00	KLD
55.00	KLD
250.00	KLD
250.00	KLD

B- FOR INDUSTRIAL PLOTS BLOCK- A, B, C,D

Daily requirement for domestic use and other except fire fighting

Capacity of under ground tank 14 hr storage except fire

=	596.42	KLD
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Total Population in Industrial plots

Total Population in Skill development

Total Population in community centre

Total Population in health centre

Total population

Say	=	357.85	KLD
	=	360.00	KLD
	=	29444	Person
	=	1333	Person
	=	267	Person
	=	333	Person
	=	31377	Person

10 Person/sqm
3 sqm/ Person
3 sqm/ Person
3 sqm/ Person

Fire Tank Capacity as $100 \times [\text{sqrt}(31377) / 1000]$

Say	=	560.15	KLD
	=	560.00	KLD
Total		920.00	KLD

For Worldwide Resorts And Entertainment Pvt. Ltd.

[Signature]
Authorised Signatory

It is proposed to provide 1 no. under ground tank of capacity **920 KL** which also includes **560 KL** capacity for **fire fighting**.
 Tank will have four compartments, Two for fire, one for raw and one for domestic use. The water first enters the fire compartment, then over flows to the domestic

It is proposed to provide under ground tank of following capacity

a) Capacity of Fire tank-1	280.00	KLD
b) Capacity of Fire tank-2	280.00	KLD
c) Capacity of Raw tank	180.00	KLD
d) Capacity of Domestic tank	180.00	KLD

V BOOSTING MACHINERY (Drinking water)
From UG. Tank

A) For DDJAY plots Block -D

a) Filter Feed Pump

Daily requirement for domestic use

Assuming 12 hours running 2 pumps (with one standby) (2W + 1S)

Discharge/hour

= 816.94 KLD

= 34.04 KL/HR

Or Say 567.32 LPM

570.00 LPM

Head of pump

i) Suction lifts

= 0.0 m

ii) Friction loss in M<main & specials

= 0.0 m

iii) Clear head

= 35.0 m

Say

= 35.0 m

= 35.0 m

BHP of motor $(570 \times 35) / (60 \times 75 \times 0.6)$

= 7.39 HP

Or Say 7.5 HP

b) Domestic Water Transfer Pump

Daily requirement for domestic use

Assuming 8 hours running 2 pumps (with one standby) (2W + 1S)

Discharge/hour

= 816.94 KLD

= 51.06 KL/HR

Or Say 850.98 LPM

850.00 LPM

Head of pump			
i) Suction lifts	=	5.0	m
ii) Friction loss in M<main & specials	=	10.0	m
iii) Clear head	=	15.0	m
iv) Residual head	=	15.0	m
Say	=	45.0	m
	=	45.0	m
BHP of motor $(850 \times 45) / (60 \times 75 \times 0.6)$			
	=	14.17	HP
Or Say	=	15.0	HP
A) For Industrial plots Block -A, B, C			
a) Filter Feed Pump			
Daily requirement for domestic use			
Assuming 12 hours running 2 pumps (with one standby) (2W + 1S)			
Discharge/hour	=	596.42	KLD
	=	24.85	KL/HR
	Or Say	414.18	LPM
		420.00	LPM
Head of pump			
i) Suction lifts	=	0.0	m
ii) Friction loss in M<main & specials	=	0.0	m
iii) Clear head	=	35.0	m
Say	=	35.0	m
	=	35.0	m
BHP of motor $(420 \times 35) / (60 \times 75 \times 0.6)$			
	=	5.44	HP
Or Say	=	7.5	HP
b) Domestic Water Transfer Pump			
Daily requirement for domestic use			
Assuming 8 hours running 2 pumps (with one standby) (2W + 1S)			
Discharge/hour	=	596.42	KLD
	=	37.28	KL/HR
	Or Say	621.27	LPM
		630.00	LPM
Head of pump			
i) Suction lifts	=	5.0	m
ii) Friction loss in M<main & specials	=	10.0	m
iii) Clear head	=	15.0	m
iv) Residual head	=	15.0	m
	=	45.0	m

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Say

BHP of motor (630*45)/(60*75*0.6)

= 45.0 m
 = 10.50 HP
 Or Say 12.5 HP

VI Gen Set

A) For DDJAY Plots Bloc-D

- a) Raw Water Transfer Pump
- b) Domestic Water Transfer Pump
- c) Flushing Water Transfer Pump
- d) Tubewell
- e) Lighting

Nos.	HP
2 ✓	7.5 ✓
2 ✓	15.0 ✓
2 ✓	10.0 ✓
3 ✓	12.5 ✓
1	5.0 ✓

=	15.0 ✓	HP
=	30 ✓	HP
=	20	HP
=	37.5 ✓	HP
=	5 ✓	HP
=	107.5 ✓	HP

or 107.5 x 0.746 x 1.50

Say

120 ✓ KVA
 120 ✓ KVA

A) For Industrial Plots Bloc-A, B,C,D

- a) Raw Water Transfer Pump
- b) Domestic Water Transfer Pump
- c) Flushing Water Transfer Pump
- d) Tubewell
- e) Lighting

Nos.	HP
2 ✓	7.5 ✓
2 ✓	12.5 ✓
3	5.0
2 ✓	12.5 ✓
1	12.0 ✓

=	15.0 ✓	HP
=	25 ✓	HP
=	15 ✓	HP
=	25 ✓	HP
=	12 ✓	HP
=	92.0 ✓	HP

102.90
 or 92 x 0.746 x 1.50

Say

115.14
 102.9 KVA
 120 ✓ KVA

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5 Sewage Treatment Plant capacity			
A) For DDJAY Plots Block-D			
Gross domestic + Flushing water requirement/day		1256.8 ✓	KLD
Sewage flow will be 80% of total load		1005.5 ✓	KLD
STP Capacity required at 5% extra margin		1055.75 ✓	KLD
STP Capacity (Or Say)		1060.00 ✓	KLD
B) For Industrial Plots Block-A & B			
Gross domestic + Flushing water requirement/day in Block -A & B		438.6 ✓	KLD
Sewage flow will be 80% of total load		350.8 ✓	KLD
STP Capacity required at 5% extra margin		368.38 ✓	KLD
STP Capacity (Or Say)		370.00 ✓	KLD
C) For Industrial Plots Block-C			
Gross domestic + Flushing water requirement/day in Block- C		479.0 ✓	KLD
Sewage flow will be 80% of total load		383.2 ✓	KLD
STP Capacity required at 5% extra margin		402.37 ✓	KLD
STP Capacity (Or Say)		410.00 ✓	KLD
VII STP Treated Tank			
A) For DDJAY Plots Block -D			
Daily requirement for flushing, horticulture, road washing in Block -D	=	499.08 ✓	KLD
Capacity of under ground tank 14 hr storage @60% storage	=	299.45	KLD
Say	=	300.00	KLD
B) For Industrial Plots Block -A, B			
Daily requirement for flushing, horticulture, road washing in Block -A, B	=	215.41 ✓	KLD
Capacity of under ground tank 14 hr storage @60%	=	129.25	KLD

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	Say	=	130.00	KLD
C) For Industrial Plots Block -C				
Daily requirement for flushing, horticulture, road washing in Block -C		=	305.94 ✓	KLD
Capacity of under ground tank 14 hr storage @60%		=		
	Say	=	183.56	KLD
			190.00	KLD
VIII BOOSTING MACHINERY (Flushing + Irrigation water) STP				
A) For DDJAY Plots Block -D				
Daily requirement for Flushing & Horticulture use in Block -D		=	499.08	
Assuming 8 hours running 2 pumps (with one standby) (2W + 1S)		=	480.62	KLD
Discharge/hour		=	31.19	
		=	30.04	KL/HR
		=	500.65	LPM
Head of pump	Or Say	=	500.00	LPM
i) Suction lifts		=	520.00	
ii) Friction loss in M<main & specials		=	5.0	m
iii) Clear head		=	10.0	m
iv) Residual head		=	15.0	m
		=	15.0	m
Say		=	45.0	m
		=	45.0	m
BHP of motor ⁵²⁰ (500*45)/(60*75*0.6)		=	8.66	
		=	8.33	HP
	Or Say	=	10.0 ✓	HP

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B) For Industrial Plots Block -A, B

Daily requirement for Flushing & Horticulture use in Block -A & B
Assuming 8 hours running 1 pumps (with one standby) (1W + 1S)
Discharge/hour

Head of pump

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

Say

BHP of motor $(360 \times 45) / (60 \times 75 \times 0.6)$

=	215.41	KLD
=	170.26	
=	26.92	KL/HR
=	21.26	
Or Say	354.71	LPM
=	360.00	LPM
=	450	
=	5.0	m
=	10.0	m
=	15.0	m
=	15.0	m
=	45.0	m
=	45.0	m

C) For Industrial Plots Block -C

Daily requirement for Flushing & Horticulture use in Block -C
Assuming 8 hours running 2 pumps (with one standby) (2W + 1S)
Discharge/hour

Head of pump

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

Say

BHP of motor $(280 \times 45) / (60 \times 75 \times 0.6)$

=	7.50	HP
Or Say	6.00	HP
=	7.5	
=	260.79	KLD
=	305.94	
=	16.30	KL/HR
Or Say	271.66	LPM
=	280.00	LPM
=	320	
=	5.0	m
=	10.0	m
=	15.0	m
=	15.0	m
=	45.0	m
=	45.0	m
=	5.33	HP
Or Say	4.67	HP
=	5.0	

184 Copy
FINAL ABSTRACT OF COST

Sub Work 1- Water Supply

Amount (Lacs.)

For 118.15 Ac

~~568.00~~
701.44

Sub Work 2- Sewerage

~~626.23~~
955.00

Sub Work 3- S.W. Drainage

~~393.38~~
536.50

Sub Work 4- Roads

~~2218.84~~
2584.48

Sub Work 5- Street Lighting

453.31

Sub Work 6- Horticulture

~~37.21~~
46.19

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)

3005.37 ✓

TOTAL
COST / ACRE

8282.29 / 118.15

8282.29
~~7302.34~~
61.81 70.09 Per Acre

Checked for service estimate only

Executive Engineer-I
W/S Division, GMDA
Gurugram

Executive Engineer-V
Sew. Division No. H
GMDA, Gurugram

Executive Engineer-III
Drainage Division, GMDA,
Gurugram

For Worldwide Recognition and International Use
Executive Engineer-1 (EDC)
Gurugram Metropolitan Development Authority
Gurugram
Authorised Signatory

Checked subject to comments
in forwarding letter No. I/5473
Dt. 09/11/2022.....and notes
attached with the estimate

Chief Engineer,
(Infra-II), GMDA
Gurugram

Director General
Town & Country Planning
Haryana, Chandigarh

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 118.15 Ac

~~432.85~~ 155.80

72.70 ✓

~~162.74~~ 226.42

~~1.89~~ 2.14

~~370.18~~ 457.06

~~11.11~~ 13.71

~~381.29~~ 470.77

~~186.83~~ 230.67

~~568.12~~ 701.44

TOTAL

SAY

~~568.00~~

701.44

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Kd
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Sub Head I

S. No.	Description	Unit Nos.	Qty	Rate	Water Supply Head Works Rs.(lakhs)
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.		5 ✓	1000000.00 ✓	Amount 50.00 ✓
2	Constructing pump chambers as per standard design of PWD PH/HSVP of size 1.50x1.50 m.	Nos.	5 ✓	100000.00 ✓	5.00 ✓
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				
ii)	construction of UG Tank	KL.	1530	LS 4500.00 6000	5.00 ✓ 68.85
4	Provision for carriage of material and other unforeseen items	LS		LS	91.80 1.00 ✓
5	Provision for facilities staff for Maintenance.	LS		LS	3.00 ✓
(C.O. to abstract of cost of Sub-work No.I)					
TOTAL					155.80 132.85
SAY					132.85 155.80

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Sub Work I
Sub Head No. II

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

S. No.	Description	Unit Nos.	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.		5	200000.00	10.00
2	Provision for cheap pressure type chlorination plant complete.			LS	2.00
3	Provision for making foundations & erection of pumping machinery.			LS	2.00
4	Provision for pipes, valves & specials inside the pump chamber.			LS	2.00
5	Provision for electric services connection including electric fittings for tubewells chambers complete. Including cost of trasfermer.			LS	4.00
6	Providing and installing electricity driven pumping set, capable of delivering complete in all respects.				
a)	570 LPM of water at 35M head (For Filter Feed Pump) (7.5 HP) (For DDJAY Block-D (2 working + 1 standby)	Nos.	3	120000.00	3.60
b)	420 LPM of water at 35M head (For Filter Feed Pump) (7.5 HP) (For Industrial plots Block-A, B, C (2 working + 1 standby)	Nos.	3	120000.00	3.60

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7	Providing and installing electricity driven pumping set, capable of delivering complete in all respects.				
a)	850 LPM of water at 45M head (For Domestic Water supply Pump) (15 HP) (For DDJAY Block-D (2 working + 1 standby)	Nos.	3	150000.00	4.50
b)	630 LPM of water at 45M head (For Domestic Water supply Pump) (12.5 HP) (For Industrial plots Block-A, B, C (2 working + 1 standby)	Nos.	3	150000.00	4.50
8	Providing and installing electricity driven pumping set, capable of delivering complete in all respects.				
a)	500 LPM of water at 45M head (For Flushing Water supply Pump) (10 HP) (For DDJAY Block-D (2 working + 1 standby)	Nos.	3	150000.00	4.50
b)	360 LPM of water at 45M head (For Flushing Water supply Pump) (7.5 HP) (For Industrial plots Block-A, B (1 working + 1 standby)	Nos.	2	120000.00	2.40
b)	280 LPM of water at 45M head (For Flushing Water supply Pump) (5 HP) (For Industrial plots Block-C (2 working + 1 standby)	Nos.	3	120000.00	3.60

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9	Provision of diesel generator set of each for standby arrangements for booster pump complete with gear head arrangements of following capacities 120 KVA. For DDJAY plots & 120 KVA for Industrial plots Block- A, B & C	LS	24.00
10	Provision for carriage of materials and other unforeseen items.	LS	2.00
	(C.O. to abstract of cost of Sub-work No.I)	TOTAL	72.70
		SAY	72.70

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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 water supply line)				
i)	100 mm dia	M	5318	1475	78.44
ii)	150 mm dia	M	932	1250.00	66.48
				1500.00	13.98
2	Providing, laying, jointing & testing D.I. K-7 pipes including cost of excavation complete as per ISI marked. (For borewell line)			1875	17.48
i)	100 mm dia	M	490	1475	6.13
				1250.00	7.23
3	Providing, laying, jointing & testing HDPE PE-80 pipes including cost of excavation complete as per ISI marked. (For Flushing water supply line)				
i)	80 mm dia 100 mm	M	5904	1475	87.08
ii)	100 mm dia	M	171	800.00	47.23
				1000.00	1.71
4	Providing and fixing sluice valves including cost brick masonry chambers complete in all respects.			1475	2.52
i)	100 mm i/d	Nos.	20	25000	5.00
ii)	150 mm i/d	Nos.	6	12000.00	2.40
				15000.00	0.90
5	Providing, fixing and testing butterfly valves including cost of valve chambers complete in all respects.			3500	2.10
i)	80 mm i/d 100	Nos.	24	15000	3.60
ii)	100 mm i/d	Nos.	2	10000.00	2.40
				12000.00	0.24
6	Providing and fixing 100 mm dia NRV including cost of valve chambers complete in all respects.			20000	0.40
i)	100 mm dia	Nos.	1	25000	0.25
ii)	150 mm dia	Nos.	1	14000.00	0.14
				16000.00	0.16
				35000	0.35

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7	Providing and fixing air valves and scour valves including cost of valve chambers complete in all respects.	Nos.	8	10000.00	0.80	
8	Providing and fixing indicating plates for sluice valve, air valve etc.	Nos.	62	1000.00	0.62	
9	Provision for carriage of material			LS	3.00	
10	Provision for cutting the roads and making to its original condition			LS	3.00	
11	Providing and fixing fire hydrants complete with masonry chambers.	Nos.	70	15000.00	10.50	
12	Making water supply connection			LS	3.00	
13	Provision for rising main from HSVP water supply line to UG Tank				2.00	
i)	100 mm dia (DI Pipe K-7)	M	85	1475	1.25	
	(C.O. to abstract of cost of Sub-work No.1)			1250.00	1.06	
				TOTAL	162.74	228.62
				SAY	162.74	228.62

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Sub Work I

Sub Head No. IV

Water Supply
Irrigation

S. No.	Description	Unit	Qty	Rate	IN LACS
1	Providing, laying, jointing & testing HDPE PE-80 pipes including cost of excavation complete as per ISI marked.				
i)	25 mm dia	M	125	400 300.00	0.375 0.50
ii)	32 mm dia	M	120	450.00 530	0.540 0.66
2	Providing & fixing 20 mm PVC Irrigation hydrant valve with PVC lid complete in all respect including cost of PVC keys	Nos.	25	3500.00	0.88 ✓
3	Provision for carriage of material	LS		10000.00	0.10 ✓
(C.O. to abstract of cost of Sub-work No.I)				TOTAL SAY	2.14 1.89 1.89 2.14

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Sub Work II

S. No.	Description	Unit	Qty	Rate	Sewerage Scheme in Lacs
1	Providing, lowering, jointing, cutting DWC HDPE ^{SW Pipe} 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	1383	2270 1250.00	31.39 17.29
b)	Average depth 1.5 m to 4.5 m	M	554	1500.00 2370	8.31 13.13
ii)	250 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	3686	9430 1800.00	89.57 66.35
iii)	300 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	42	2700 2200.00	1.13 0.92
iv)	400 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	171	5000 2500.00	8.55 4.28
2	Provision for lighting, watching and temporary diversion traffic	LS			3.00
3	Provision for timbering & shoring	LS			3.00
4	Provision for cutting of roads and carriage of materials etc. and other unforeseen charges	LS			3.00
5	Provision for connection with HSVP ^{GMDTA}	LS			2.00
6	Providing and installation of STP including civil tanks and all electro mechanical works. It also includes flushing tank. For DDJAY Block D- STP 1060 KLD, For Block A & B- 370 KLD, for Block C- 410 KLD	KL	1840	40000.00 25000	294.4 460.00

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7	Provision for DI K-7 pipe from S.T.P. to HSVP main line (Over flow line)				
i)	100 mm dia pipe	M	440	1475 1250.00	6.49 5.50
Add 3% contingencies & PE charges					408.04 408.04 622.26
Add 49% Deptt. Charges					12.24 420.29 18.68
C.O. TO FINAL ABSTRACT OF COST SUB WORK - II					640.92 640.92 87.89
TOTAL SAY					314.05 205.94 513.55
					954.98 626.23 955.44
					955.44 955.44

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Sub Work III

S. No.	Description	Unit	Qty	Rate	Storm water drainage In Lacs
1	Providing, lowering, jointing, cutting RCC NP2 pipes 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	2212	2950	65.25
b)	Average depth 1.5 m to 4.5 m	M	3226	2500.00 2600.00 3050	55.30 83.88 98.39
ii)	500 mm i/d				
a)	Average depth upto 1.5 m	M	100	2800.00	2.80
b)	Average depth 1.5 m to 4.5 m	M	370	3000.00 3550	11.10 13.13
iii)	600 mm i/d				
a)	Average depth 1.5 m to 4.5 m	M	160	3500.00 4080	5.60
2	Provision for road gully and drain.			LS	10.00 ✓
3	Provision for lighting, watching and temporary diversion of traffic.			LS	3.00 ✓
4	Provision for cutting of roads and carriage of materials etc. and other unforeseen items.			LS	3.00 ✓
5	Construction of rain water harvesting pit 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 excavtion of soil.	Nos	32	250000.00 450000.00	80.00 144.00
6	Provision for connection with HWP.				

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7	400 mm i/d (Average depth 1.5 m to 4.5 m)	M	25	2600	3050	0.76
	Provision for connection with HSVF line			LS		0.65
						3.00
	Add 3% contingencies					349.58
						256.33
	Add 49% Deptt. Charges					7.69
						10.48
						264.02
						129.37
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - III)			TOTAL		176.45
				SAY		393.38
						393.38
						536.50
						536.50

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Sub Work IV

Road Work

S. No.	Description	Unit	Qty	Rate	In Lacs
1	Provision for levelling and earth filling as per site conditions.	Acre	118.15	175000.00	206.76
2	Construction of road by- i) Providing GSB by 200 mm thick ii) 250 mm thick W.M.M. stone aggregate layer iii) 50 mm DBM. iv) 25 mm thick B.C. complete in all respect. Total	Sq. M	79419	1200.00 1580	953.03 1191.28
3	Miscellaneous items				
(a)	Providing for Kerbs & Channels for 118.15 ACRES Wide road 7018 x 2 = 14036 RM	RMT	14036	600.00	84.22
(b)	Provision of foot path of precast conc. for 118.15 acres 7018 x 1.75 x 2 = 24563 SQM	Sq. M	24563	750.00	184.2225
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 plot indicator	LS		100000.00	1.00

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7	Provision for demaracation & unfloresen items	LS		100000.00	1.00
8	Provision for parking & pavement for commercial area @ 50% 3613.03 = 1806.52 sqm	sqm	1806.52	750.00	13.55
	Add 3% contingencies				1445.78
	Add 49% Deptt. Charges				43.37
					1489.15
					729.68
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - IV)			TOTAL SAY	2218.84
					2218.84
					2584.48

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Sub Work V

S. No.	Description	Unit	Qty	Rate	Street Lighting In Lacs
1	Providing street lighting on internal roads as per standerd specification of HVPNL and CFL complete in all respect Provision made on L.S. cost @ Rs.2,50,000.00 per acre	L.S.	118.15	250000.00	295.38
	Add 3% contingencies				295.38 8.86
	Add 49% Deptt. Charges				304.24 149.08
				TOTAL	453.31
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - V)			SAY	453.31

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Sub Work VI

S. No.	Description	Unit	Qty	Rate	Horticulture
					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 tranced 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 HSVN Norms)	Per acre	6.0251	150000.00	9.04
2	Planting of trees with tree guards on roads at 12 m intervals				
	Total length of roads = 7018 mtr				
	No of trees @ 12m c/c = $7018 \times 2 / 12 = 1170$ nos				
	say = 1170 nos				
	Cost of the tree @ 1300/- ¹⁸⁰⁰ each	Nos.	1170	1300.00 ¹⁸⁰⁰	15.21 ^{21.06}
	TOTAL				30.10 ^{30.10}
	Add 3% contingencies				0.90 ^{0.90}
	Add 49% Deptt. Charges				14.98 ^{14.98}
					12.24 ^{12.24}
					37.21 ^{37.21}
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - VI)				46.19 ^{46.19}
				TOTAL	
				SAY	37.21 ^{37.21}
					46.19 ^{46.19}

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Sub Work VII

S. No.	Description	Unit	Qty	Rate	Maintenance In Lacs
1	Provision for maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation and establishment charges as per HSVP norms after completion and resurfacing of roads after 10 years or 1st phase	Acre	118.15	750000.00	886.13
2	Provision for resurfacing and strengthening of roads after 1st five years of 1st phase with 50 mm B.M. & 25 mm P.C. @ 600/sqm	Sq. M	79419	600.00	476.51
3	Provision for resurfacing and strengthening of road after 10 years of 2nd phase with 50 mm B.M. & 25 mm P.C. @ 750 /sqm	Sq. M	79419	750.00	595.64
	Add 3% contingencies				1958.28
					58.75
	Add 49% Deptt. Charges				2017.03
					988.34
				TOTAL	3005.37
	(C.O. TO FINAL ABSTRACT OF COST SUB WORK - VII)			SAY	3005.37

For Worldwide Resorts And Entertainment Pvt. Ltd.


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ROAD CALCULATION FOR MANESAR INDUSTRIAL PLOTTED						
A)	ROAD FLOR BLOC-A		ROAD FLOR BLOC-B		ROAD FLOR BLOC-C	
	ROAD LENGTH (MTR)	ROAD WIDTH IN MTR	METAL WIDTH IN MTR	AREA IN SQMTR		
1	ROAD R1	241.40	12.00	9.00	2172.60	
2	ROAD R2	259.55	18.00	12.00	3114.60	
3	ROAD R3	288.04	18.00	12.00	3456.48	
4	ROAD R4	63.70	24.00	18.00	1146.60	
5	ROAD R5	191.10	18.00	12.00	2293.20	
6	ROAD R6	81.51	18.00	12.00	978.12	
7	ROAD R7	67.05	12.00	9.00	603.45	
8	ROAD R8	67.05	60.00	48.00	3218.40	
9	ROAD R9	67.05	12.00	9.00	603.45	
	TOTAL	1326			17586.90	
	ADD 5% FOR CURVES	1393		MTR	19466.25	
	SAY ROAD LENGTH	1393		MTR	18466	
B)	ROAD FLOR BLOC-B		ROAD FLOR BLOC-C		ROAD FLOR BLOC-D	
	ROAD LENGTH (MTR)	ROAD WIDTH IN MTR	METAL WIDTH IN MTR	AREA IN SQMTR		
1	ROAD R10	181.70	18.00	12.00	2180.40	
2	ROAD R11	137.36	18.00	12.00	1648.32	
3	ROAD R12	168.98	24.00	18.00	3041.64	
	TOTAL	488			6670.36	
	ADD 5% FOR CURVES	512		MTR	7213.88	
	SAY ROAD LENGTH	512		MTR	7214	
C)	ROAD FLOR BLOC-C		ROAD FLOR BLOC-D		ROAD FLOR BLOC-E	
	ROAD LENGTH (MTR)	ROAD WIDTH IN MTR	METAL WIDTH IN MTR	AREA IN SQMTR		
1	ROAD R13	153.45	12.00	9.00	1381.05	
2	ROAD R14	162.69	60.00	48.00	7809.12	
3	ROAD R15	134.10	12.00	9.00	1206.90	
4	ROAD R16	287.15	18.00	12.00	3445.80	
5	ROAD R17	178.20	14.00	9.00	1603.80	
6	ROAD R18	183.15	18.00	9.00	1648.35	
7	ROAD R19	269.20	18.00	9.00	2422.80	
8	ROAD R20	344.62	18.00	9.00	3101.58	
9	ROAD R21	104.38	18.00	9.00	939.42	
10	ROAD R22	68.16	18.00	9.00	618.44	
11	ROAD R23	38.14	18.00	9.00	343.26	
12	ROAD R24	51.94	18.00	9.00	467.46	
13	ROAD R25	131.71	18.00	9.00	1185.39	
14	ROAD R26	26.96	14.00	9.00	485.28	
15	ROAD R27	241.40	12.00	9.00	2172.60	
	TOTAL	2375			28826.25	
	ADD 5% FOR CURVES	2494		MTR	30267.56	
	SAY ROAD LENGTH	2494		MTR	30268	
D)	ROAD FLOR BLOC-D		ROAD FLOR BLOC-E		ROAD FLOR BLOC-F	
	ROAD LENGTH (MTR)	ROAD WIDTH IN MTR	METAL WIDTH IN MTR	AREA IN SQMTR		
1	ROAD R28	120.70	12.00	9.00	1086.30	
2	ROAD R29	485.11	12.00	9.00	1665.99	
3	ROAD R30	37.33	9.00	6.00	223.98	
4	ROAD R31	84.79	9.00	6.00	508.74	
5	ROAD R32	107.12	9.00	6.00	642.72	
6	ROAD R33	33.81	9.00	6.00	202.86	
7	ROAD R34	84.79	9.00	6.00	508.74	
8	ROAD R35	107.12	9.00	6.00	642.72	
9	ROAD R36	51.92	9.00	6.00	311.52	
10	ROAD R37	107.12	9.00	6.00	642.72	
11	ROAD R38	161.89	9.00	6.00	971.34	
12	ROAD R39	36.00	9.00	6.00	216.00	
13	ROAD R40	161.89	24.00	18.00	2914.02	
14	ROAD R41	104.12	24.00	18.00	1874.16	
15	ROAD R42	44.98	9.00	6.00	269.88	
16	ROAD R43	68.31	24.00	18.00	1229.58	
17	ROAD R44	38.09	9.00	6.00	228.54	
18	ROAD R45	172.43	9.00	6.00	1034.58	
19	ROAD R46	152.89	9.00	6.00	917.34	
20	ROAD R47	152.89	9.00	6.00	917.34	
21	ROAD R48	152.89	9.00	6.00	917.34	
22	ROAD R49	205.19	24.00	18.00	3693.42	
23	ROAD R50	122.35	9.00	6.00	794.10	
24	ROAD R51	122.35	9.00	6.00	794.10	
	TOTAL	2494			22353.93	
	ADD 5% FOR CURVES	2618		MTR	23471.63	
	SAY ROAD LENGTH	2618		MTR	23472	

For Worldwide Resorts And Entertainment Pvt. Ltd.

Authorised Signatory