

FORM LC -V
(See Rule 12)
HARYANA GOVERNMENT
TOWN AND COUNTRY PLANNING DEPARTMENT

LICENCE NO. 65 OF 2023

This license is being granted under the Haryana Development and Regulation of Urban Areas Act, 1975 & the Rules, 1976 made there under to Prominent Enterprises Pvt. Ltd, GF-17, Ground Floor JMD Pacific Square Sector-15, Part-II, Gurugram for development of Industrial Plotted Colony over an area measuring 106.6625 acres in the revenue estate of village Barshariya, Sector M-9&M-10, Manesar, District Gurugram.

1. The particular of the land of aforesaid Industrial Plotted Colony is to be set up, is enclosed.
2. The License is granted subject to the following terms and conditions:
 - i) To deposit a sum of Rs. 12,50,60,191/- on account of State Infrastructural Development Charges in two equal installments. First within 60 days from issuance of license and second within six months online at www.tcpharyana.gov.in. In failure of which, an interest @ 18% per annum for delay period shall be paid.
 - ii) That the licensee shall maintain and upkeep of all roads, open spaces, public park and public health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces, public parks and public health services free of cost to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Regulation of Urban Areas Act, 1975.
 - iii) That the licensee have not submitted any other application for grant of license for development of the said land or part thereof for any purpose under the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the provision of the Punjab Scheduled Roads and Controlled Area Restrictions of Unregulated Development Act, 1963.
 - iv) That the licensee shall obtain NOC/Clearance as per provisions of notification dated 14.09.2006 issued by Ministry of Environment & Forest, Govt. of India, if applicable.
 - v) That the licensee shall execute development works at site.
 - vi) That the licensee shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of DGTCP.
 - vii) That the licensee shall obtain clearance from competent authority, if required under Punjab Land Preservation Land Act, 1900 and any other clearance required under any other law.
 - viii) That the rain water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as applicable.
 - ix) That the provision of solar water heating system shall be as per guidelines of Haryana Renewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
 - x) That the licensee shall use only LED fitting for internal lighting as well as campus lighting.

Director General
Town & Country Planning
Haryana, Chandigarh


- x) That the licensee shall convey the 'Ultimate Power Load Requirement' of the project to the concerned power utility, with a copy to the Director, within two months period from the date of grant of license to enable provision of site in licensed land for Transformers/Switching Stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- xi) That the licensee shall keep pace of development at least in accordance with sale agreement executed with the buyers of the plots as and when scheme is launched.
- xii) That the licensee shall arrange power connection from UHBVNL/DHBVNL for electrification of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which licensee shall get the electrical (distribution) service plan/estimates approved from the agency responsible for installation of external electric services i.e. UHBVNL/DHBVNL and complete the same before obtaining completion certificate for the colony.
- xiii) That the licensee will pay the labour cess as per policy instructions issued by Haryana Government vide Memo No. Misc. 2057-5/25/2008/2TCP dated 25.02.2010 as amended from time to time.
- xiv) That the licensee shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of Haryana Development and Regulation of Urban Areas Act, 1975, and shall inform account number and full particulars of the scheduled bank wherein you have to deposit amount received from the plot holders for meeting the cost of internal Development Works in the colony.
- xv) That no further sale has taken place after submitting application for grant of license.
- xvi) That the licensee shall not give any advertisement for sale of plots/commercial area before the approval of layout plan.
- xvii) That no provision of the Haryana Ceiling on Land Holding Act, 1972 has been violated due to purchase of applied land.
- xviii) That the revenue rasta/khai if passing through the site shall not be encroached upon and shall be kept free from all hindrances for easy movement of general public.
- xix) That the licensee shall follow the provisions of the Real Estate (Regulations and Development) Act, 2016 and Rules framed thereunder shall be followed by the applicant in letter and spirit.
- xx) That the licensee shall construct service/Internal sector roads at your own cost and the entire area under said roads shall be transferred to the Government within 30 days from approval of zoning plan.
- xxi) The portion of sector road/green belt if any which shall form part of the licensed area, will be transferred to the Government in accordance with the provisions of Section 3(3) (a) (iii) of the Haryana Development and Regulation of Urban Areas Act, 1975 within 30 days from approval of zoning plan.
- xxii) That the licensee shall comply with the terms and conditions of policy dated 01.10.2015 as amended from time to time and other direction given by the Director time to time to execute the project.
- xxiii) That the licensee shall take the permission for nala / drain / water channel which are passing through licenced land from the competent authority.
- xxiv) That the licensee 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, applicant shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Act.

3. The license is valid up to 26/03/2028.

Place: Chandigarh

Dated: 27/03/2023



(T.L. Satyaprakash, IAS)
Director General,
Town & Country Planning
Haryana, Chandigarh

Encl. No. LC-4148/JE (DS)/2023/ 9259

Dated: 31-03-2023

A copy along with a copy of schedule of land is forwarded to the following for information and necessary action:-

1. ☒ Prominent Enterprises Pvt. Ltd, GF-17, Ground Floor JMD Pacific Square Sector-15, Part-II, Gurugram alongwith copies of agreement/ bilateral agreement, schedule of land and Layout plan.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Chief Administrator, Housing Board, Panchkula alongwith copy of agreement.
5. Managing Director, HVPNL, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
6. Joint Director, Environment Haryana-Cum-Secretary, SEAC, Paryavaran Bhawan, Sector -2, Panchkula.
7. Addl. Director Urban Estates, Haryana, Panchkula.
8. Administrator, HSVP, Gurugram.
9. Chief Engineer, HSVP, Panchkula.
10. Superintending Engineer, HSVP, Gurugram along with a copy of agreement.
11. Land Acquisition Officer, Gurugram.
12. Senior Town Planner, Gurugram alongwith approved layout plan.
13. Senior Town Planner (E&V), Haryana, Chandigarh.
14. District Town Planner, Gurugram alongwith a copy of agreement and approved layout plan.
15. Chief Accounts Officer, O/o DGTC, Haryana alongwith a copy of agreement.
16. Nodal Officer (website), O/o DGTC, Haryana.


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

To be read with License No. 65 dated 27/03 of 2023

Land Owned by Prominent Enterprises Private Limited

VILLAGE	RECT. NO.	KILA NO.	AREA	
			K	M
Banshariya	12	6	5	7
		15	8	0
		16/1	0	16
		16/2	1	13
		16/3	5	13
		25/1	3	8
	13	6 Min	5	9
		7/2 Min	4	1
		8/2 Min	3	17
		9/1 Min	1	13
		9/2 Min	2	9
		10/2 Min	1	15
		11	8	0
		13	7	12
		14	8	0
		15	8	0
		16/1	6	4
		16/2	1	16
		17/1	6	4
		17/2	1	16
		18	7	12
		20	8	0
		21	8	0
		22	8	0
		23/1	2	15
		23/2	4	4
		23/3	0	18
		24/1	2	18
		24/2	0	18
		24/3	4	4
		25/1	0	15
		25/2	2	18
		25/3	4	7
	14	5 Min	3	8
		6 Min	6	13
		7 Min	5	13
		8 Min	5	13
		9 Min	5	16
		10/1 Min	0	10
		10/2 Min	3	14
		11	8	0
		12	6	4
		13/2	2	4
		14/2	2	4
		15/2	2	4
	14	19	8	0
		20	8	0
		21	8	0
		22	8	0

[Signature]
D.G.I.C.P (HR)

Banshariya	14	23	8	0	/
	15	1	8	0	/
		2	8	0	/
		3	8	0	/
		4	8	0	/
		5	8	0	/
		6	8	0	/
		7	8	0	/
		8	8	0	/
		9	8	0	/
		10	8	0	/
		11/1	6	0	/
		11/2	2	0	/
		12	8	0	/
		13	8	0	/
		14	8	0	/
		15	8	0	/
		16/1	0	16	/
		16/2	7	4	/
		17	8	0	/
		18	8	0	/
		19/2	7	11	/
		20/1/2	3	0	/
		20/2	4	3	/
		21/1	4	8	/
		21/2	3	4	/
		22	8	0	/
		23	8	0	/
		24	8	0	/
		25/1	7	0	/
		25/2	1	0	/
	16	2/1	4	0	/
		2/2	4	0	/
		3	8	0	/
		4/1	4	0	/
		4/2	4	0	/
		5	8	0	/
		6	8	0	/
		7	8	0	/
		8/1	4	9	/
		8/2	3	11	/
		9	7	12	/
		12/2	2	6	/
		13	8	0	/
		14/1	1	0	/
		14/2	7	0	/
		15	8	0	/
		16/1	5	17	/
		25/2	6	5	/
	22	5/2	6	5	/
		6/1	6	5	/
		15/1/2	5	19	/
		16	7	4	/
		25	8	0	/
	23	5	8	0	/

[Signature]
D.G.I.C.P (HR)

Banshariya	23	6	8	0	✓
		14/2	4	0	✓
		15	8	0	✓
	28	2	8	0	✓
		3/1	4	4	✓
		4/1	4	18	✓
		4/2	3	2	✓
		5	7	12	✓
		6	7	12	✓
		7	8	0	✓
		11/1	7	9	✓
		14	8	0	✓
	29	1/1	4	8	✓
		1/2	3	0	✓
		2	8	0	✓
		3	8	0	✓
		4	8	0	✓
		5/1	0	12	✓
		5/2	7	8	✓
		6	8	0	✓
		7	8	0	✓
		8	8	0	✓
		9	7	12	✓
		10	8	0	✓
		11	8	0	✓
		12	7	12	✓
		13	8	0	✓
		14/1	5	9	✓
		14/2	1	14	✓
		14/3	1	1	✓
		15	7	14	✓
		16	7	12	✓
		17	8	0	✓
		18	7	12	✓
		19/1	3	11	✓
		19/2	4	0	✓
		20	7	11	✓
		21/1	5	11	✓
		22	8	0	✓
		23	7	4	✓
		24	7	11	✓
		25	7	12	✓
	30	21/1/1	0	11	✓
		TOTAL	853	6	

106.6625

OR ACRES

Note: - Killa no. 15//3min(2-0-0),4(8-0-0),5(8-0-0),6min(4-16-6),7min(4-16-6),8min(2-2-0),13min(4-14-6),14(8-0-0),15(8-0-0),16/1min(0-6-0),16/2min(0-7-0),17min(0-14-0),18min(0-8-0),14//23min(3-16-0),total 56-1-0 are under mortgage for EDC& 15//3min(6-0-0),8min(1-11-4),14//5min(0-6-6),6min(4-1-4),7min(4-1-4),8min(2-16-0),13/2min(1-11-0),14/2(2-4-0),15/2(2-4-0),23min(3-16-0),12//6(5-7-0),15(8-0-0),16/1(0-16-0),16/2(1-13-0),16/3(5-13-0)25/1(3-8-0) total 53K-9M-05 are under mortgage for IDW of village Banshariya.

Director General
Town & Country Planning
Haryana, Chandigarh

REPORT

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

FOR

AREA 106.6625 ACRES INDUSTRIAL PLOTTED COLONY IN SECTOR M9 & M10, MANESAR DISTT. GURUGRAM

Industrial plotted Colony in Revenue Estate of village Bhan
shsriya, Sector M9& M10,Sub Tehsil Harsaru,District
Gurugram, Haryana

106.6625 Acres

AT SECTOR- M9& M10
Manesar, Gurugram, Haryana

M/S Prominent Enterprises Private Limited

License No.65 of 2023 dated 27/03/2023

Report

The project consists of Industrial & Residential plotted Colony located in Gurgaon in the state of Haryana, consisting of 1287 nos. of 86 Industrial plot and 845 nos. of Residential plots. The site area is 106.6625 Acre.

Population

Total No. of Plots	No. of Dwelling Units Allowed	Population Allowed per Unit	Total Population $845 \times 3 \times 4.5 = 11407.5$	Population Density Provided is $11407.5/47.4$ $963 \sim 240.18$
Nos.	Nos.	Nos.	Persons	Persons
845	3	4.5	11407.5	240 PPA

This Revised report and re-estimate is for approval of

106.6625 Acres

**Industrial &
Residential plots**

		Table-I Area under Industrial pocket	Area under residential pocket	
Water Management Plan				
Total Water Demand	3292	794	2498	KL
Total Fresh Water Demand	1926	401	1525	KL
Total Recycled Water Demand	1366	393	973	KL
Total Recycled Water Demand				KL
Estimated Waste Water Generation	2321	495	1826	KL
Total Fire Fighting Demand		43	338	KL

Master Services Available for the Project:

Connectivity with Master Road Network

The Area is Connected with 60 M Wide Road Constructed by HSIIDC. The 24 M Wide Roads Connects with 60 M Wide Existing Road and this is the Main Connectivity with two major Roads are existing and another is Proposed. Moreover proposed 60 M Wide Road Between Sector M9 & M10 Road

Connectivity of Water Supply

Master Water Supply Line is Laid on 60 M wide Road

The Water Works of HSIIDC is located at Sector-7 is connected with Master Water Supply Line

Rising Main of 200 mm i/d is taken from present Main water Supply Line on Existing 60 m Wide Road.

Connectivity of Master Sewerage and Master Drainage System

Till Date Master Sewerage and Master Drainage System has not been Planned by the Authorities on dividing Road of M9 & M10.

A CETP has been Proposed Near plot X9/2 the balance treated effluent will find its way into the sewer line be connected on dividing road of Sector M9 & M10 by the State Authorities.

STP has been proposed in the residential area and the balance treated waste water will be connected to the main sewer line by HSIIDC on dividing road of M8& M9.

The Internal Drains have been planned & Rain Water Harvesting structures have been designed to absorb the Rain water, the balance S.W shall be connected to the Master drains to be constructed by the Authorities.

Water Supply

The source of water supply for the entire complex has been planned in such a way that the total fresh water demand of the project is met through the municipal supply only and the flushing demand through treated waste water. The fresh water shall be stored in the under ground tank and supplied to the consumer.

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

AREA 106.6625 ACRES INDUSTRIAL PLOTTED COLONY IN SECTOR M9 & M10, MANESAR DISTT. GURUGRAM

Initial Demand for First Five years will be 40% of Total Demand, it is Proposed to meet the initial demand of water 4 nos. of tubewells drilled in the boosting Station Area.

Design

Industrial plots have categories in different category on the analogy of existing industrial growth in the vicinity with water demand @ 15000*25000 Litre per acre with 67% supply from fresh Water (Municipal water source)& 33% from recycled water source

Rising Main

Main Water pipe line 300 mm i/d is available on 60 Mwide Road

Rising Main 200 mm i/d 1000 M Length is proposed from Municipal Source to Project Area

Proposed for trial Area Residential & Indus

Rising Main 150 mm i/d 240M Length is proposed from 200 mm i/d to Boosting Station Residential Area

Boosting Station

Boosting Chamber of size 6 mx4Mtr bed level in accordance with Bed level of under ground tank are to be constructed at both site of Water Supply Pumping Station

RCC Under Ground Tank

RCC Under Ground Tank is provided for 8 Hours Storage Capacity

Separate RCC Under Ground Tank is provided to meet total requirement of fire fighting demand

Construction of RCC Under Ground Tank (UGT) Zone 1	267	KL
Construction of RCC Under Ground Tank (UGT) Zone 2	855	KL

Pumping Equipments

It has been proposed to install pumping set as described with standby Arrangements

ZONE 1 (to Serve Industrial Pockets)

Provide 2 Nos. Pump to meet total demand 10 LPS with 45 Mtr. Head 10 BHP	2	Nos
Provide 1 Pump to meet total demand 5 LPS with 45 Mtr. Head, 6 BHP	1	Nos
Provide 1 Pump 10 LPS with 45 Mtr. Head, 10 BHP	10	Nos

Power Backup

Capacity of Generator Provided	50	kVA
Capacity of Transformer Provided	100	kVA

ZONE 2 (to Serve Residential Pockets)

Provide 1 pumps to meet total demand 10 LPS with 45 Mtr. Head 10 BHP	1	Nos
Provide 2 pumps to meet Peak demand 20 LPS with 45 Mtr. Head, 20 BHP	2	Nos
Provide 1 pumps stand bye 30 LPS with 45 Mtr., Head, 30 BHP	1	Nos

Power Backup

Capacity of Generator provided	125	kVA
Capacity of Transformer Provided	250	kVA

SEWERAGE SCHEME

Sewer line from proposed development will be connecting to a centralized Sewage treatment plant with a bypass to Municipal sewer to dispose excess sewage. The sewerage system has been marked on the respective plans.

CETP of 0.5 MLD capacity is provided at ETP site (to Treated Industrial Waste)

STP of 2.0 MLD capacity is provided at UGTP site (to Treated Residential Waste)

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 0.6M/sec self-cleaning velocity. Sewer line up to 250mm dia has been designed to run half full and above 250mm dia has been designed to run three fourth full at peak flow. Necessary provision for laying DWC pipe sewer line, construction of required number of manholes etc., has been made in the estimate.

Necessary design statement for entire sewerage system has been prepared and attached with estimate. Manning's formula has been used on the design of sewerage system.

Storm Water Drainage System

It is proposed to lay underground R.C.C. pipe drains with required number of catch basins, manholes and rainwater recharge pits with over flow to the Proposed HUDA storm drain on sector Road. The intensity of rain fall has been taken as ¼" per hour. A minimum size of 450 mm dia RCC storm water line will be provided and designed.

Artificial Recharge System

It is proposed to lay underground R.C.C. pipe drains with required number of catch basins, manholes and rainwater recharge pits with over flow to the Proposed HUDA storm drain on sector Road. The intensity of rain fall has been taken as ¼" per hour. A minimum size of 450 mm dia RCC storm water line will be provided and designed.

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

FOR

AREA 106.6625 ACRES INDUSTRIAL PLOTTED COLONY IN SECTOR M9 & M10, MANESAR DISTT. GURUGRAM

The manholes are designed in such a manner that Man hole acts as Recharge pit /Recharge well drawing attached

Recharge Pits

It is Proposed that Manholes of the drainage System will be converted into 1.2 M Internal Dia. Recharge Pits. The Same are Shown in the Plan

SPECIFICATIONS

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

ROADS

Roads have been provided as per the approved plan and estimate is prepared as per revised specifications adopted by HUDA. The maintenance cost including resurfacing after 5 & 10 years have been added.

STREET LIGHTING

Provision for streets lighting also has been made

HORTICULTURE

Estimates of plantation, landscaping, signage, etc., have been included

RATES

The estimate has been prepared based on the present market rates

COST

The total cost of the scheme, including 3% Contingency Charges & 49% Departmental Charges of all services works out to be

Cost / Acre= Lac/Acre
Say Rs. Per Acres

~~63.12~~ 51.17 Lakh/Acres
\$ 75.25 ~~63.15~~ 94.00 Lakh/Acres



For PROMINENT ENTERPRISES PVT. LTD.

Authorized Signatory

COSTING

Abstract of Cost for Area 106.6625 Acres Industrial Plotted Colony in Sector-M9 & M10, Manesar Distt. Gurugram		
Sr. No.	Description	Total Cost in Lakh
1	Sub Work No. 1 (Water Supply)	555.04 405.37 585.72
2	Sub Work No. 2 (Waste Water Collection System & Recycling of Treated Waste Water)	1145.04 924.92 1190.03
3	Sub Work No. 3 (Storm Water)	668.03 306.32 820.95
4	Sub Work No. 4 (Roads Network)	2388.92 1841.68 2270.37
5	Sub Work No. 5 (Horticulture & Road Side Plantation)	25.55 43.15
6	Sub Work No. 6 (Lightings & Fittings)	105.22 409.22
7	Sub work No.07 charges of services and resurfacing of roads)	1844.13 1790.29 2707.06
	Sub Total	6731.93 5459.30 8026.50
	Cost / Acre= Lac/Acre	61.19 63.12

Say Rs / Acre = ~~63.15~~ Lacs/Acre
Rs 75.25

Executive Engineer
HSVP Division No. VI
Gurugram



For PROMINENT ENTERPRISES PVT. LTD.

Superintending Engineer,
HSVP Circle, Gurugram

Authorised Signatory

Checked subject to Comments
in forwarding letter No 206708
Dt 27/8/2022 and notes
Attached with the estimate

Director General
Town & Country Planning
Haryana, Chandigarh

Superintending Engineer (HQ)
for Chief Engineer-I
HSVP, Panchkula

JE (w-2)

Abstract of Sub Work No. 1 (Water Supply)		
No. of Sub Head	Name of Sub Head	Amount in Lakh
Sub Head No. 1	Head Works 1	34.28 21.79 38.12
Sub Head No. 2	Head Works 2	74.28 61.30 81.40
Sub Head No. 3	Distribution System & Rising Main	197.63 187.68 199.61
Sub Head No. 4	Tubewell Source	75.46 42.46
Total		381.65 303.23 361.66
Add 3% contingency & PE charges		11.45 4.10 10.85
Total Cost		393.10 312.33 372.51
Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin		192.62 153.04 182.5
Total Cost		585.72 465.37 555.04



For PROMINENT ENTERPRISES PVT. LTD.

[Signature]
Authorized Signatory

Abstract of Sub Work No. 1 (Water Supply)		
No. of Sub Head	Name of Sub Head	Amount in Lakh
Sub Head No. 1	Head Works 1	21.77 38.12
Sub Head No. 2	Head Works 2	61.50 81.40
Sub Head No. 3	Distribution System & Rising Main	187.68 199.68
Total		269.95 319.20
Add 3% contingency & PE charges		8.02 9.58
Total Cost		277.97 328.78
Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin		124.61 161.10
Total Cost		402.58 489.88

Cost Estimation of Head Works Sub Head No. 1					
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Construction of Boosting Station	1	No.	360000	3.60
2	Construction of RCC Under Ground Tank (UGT) <i>385KL incl. 135KL for fire reserve</i>	267 385	KL	6000 5500	16.02 21.18
3	Construction of Boundary wall and gate around the water works	1	L.S.	100000 50000	1.00 0.50
4	Construction of Chlorination Plant complete in all respect	1	L.S.	150000 50000	1.50 0.50
5	Provision for foundation and erection of pumping machinery, pipe valves and special service connection with electrical fittings inclusive of transformer	1	L.S.	600000	6.00
6	Provision for carriage of materials and other unforeseen items.	1	L.S.	100000 50000	1.00 0.50
Total					26.77 34.28



For PROMINENT ENTERPRISES PVT. LTD.

[Signature]
Authorized Signatory

Residential unit

Sub Head No. 2					
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Construction of Boosting Station	1	No.	360000	3.60
2	Construction of RCC Under Ground Tank (UGT) <i>Capacity 985 KL including 150 KL for fire reserve</i>	855 985	KL	6000 4000 5500	51.20 34.20 54.18
3	Construction of Boundary wall and gate around the water works	1	L.S.	200000 50000 1.00	2.00 0.50 1.50
4	Construction of Chlorination Plant complete in all respect	1	L.S.	250000 50000	2.50 0.50 1.50 lacs
5	Provision for foundation and erection of pumping machinery, pipe valves and special service connection with electrical fittings inclusive of transformer	1	L.S.	1200000	12.00
6	Provision for carriage of materials and other unforeseen items.	1	L.S.	1000000 50000	10.00 0.50 8.50 lacs
Total					81.40



For PROMINENT ENTERPRISES PVT. LTD.

[Signature]
Authorized Signatory

Cost Estimation of Distribution System & Rising Main					
Sub Head No. 3					
Sr.No. / HSR No.	Description	Qty	Unit	Rate in Rs	Amount in Lakh
1	Providing, laying, jointing, testing CI/DI K-9 Pipe lines including cost of Excavation complete in all respect				
	(For Distribution)				
	100 mm id	5248	Mtr	1460.00	76.62
	150 mm id	2670	Mtr	2040.00	54.47
	200 mm id	73	Mtr	2150.00	1.57
	250 mm id	20	Mtr	2350.00	0.47
	For Rising Main			3000	
	150 mm id	410	Mtr	2040	8.36
	200 mm id	1000	Mtr	2150	21.50
2	Providing and fixing double flanged sluice valves/butterfly valves including cost of all jointing material carriage loading unloading, stacking handling etc complete in all respects				
	100 mm id	41	Nos.	12000	4.92
	150 mm id	42	Nos.	15000	6.30
	200 mm id	2	Nos.	20000	0.40
	250 mm id	1	Nos.	25000	0.25
3	Providing and fixing Fire Hydrants including cost of brick masonry complete in all respect	5	Nos.	15000	0.75
4	Construction of brick masonry haudi for sluice valves and air valve including surface boxes complete in all respect	91	Nos.	3000	4.55
5	Providing and fixing C.I. double Air valves including carriage, loading, unloading, stacking, handling, re-handling etc., drilling, tapping, screwing in valves connections complete in all respects				
	100 mm id	2	Nos.	10000	0.20
6	Providing and fixing indicating arrow plates for sluice valves, air and fire hydrants	91	Nos.	2000	1.82
7	Providing and fixing Scour valves including providing of chambers etc complete				
	100 mm id	6	Nos.	12000	0.72
	150 mm id	18	Nos.	15000	2.70
8	Provision for carriage of materials and other unforeseen items	1	LS	200000	2.00
9	Provision for cutting of roads and making good to its original condition	1	LS	200000	2.00
10	Provision for water connection <i>from HSR on main sewer</i>	1	LS	100000	1.00
	Total			100000	10.00

199.68
197.63 lacs



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Sub Head No. 4					
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Boring & installing 21 " i/d tube wells reverse rotary rigs complete with pipes & strainer to depth of about 80 m complete	4	No.	700000 15.00	28.00 60.00
2	Construction of Pump Chamber	4	No.	225000	9.00
3	Development of Tube well site including construction of approach roads footpath hedges and development of lawns and plantation etc. complete at Tube well site	4	L.S.	100000	4.00
4	Rising Main 100 mm i/d DI Pipe Line K-9	100	Metre	1460	1.46
5	Total of material (43)				1.00 42.46

75.4614



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**Abstract of Sub Work No. 2
(Waste Water Collection System & Recycling of Treated Water)**

No. of Sub Head	Name of Sub Head	Amount in Lakh
Sub Head No. 1	Waste Water collection/Sewerage	625.20 477.33 657.57
Sub Head No. 2	Recycling of Treated Water	150.22 125.34 128.53
Total		775.42 602.67 786.10
Add 3% contingency & PE charges		23.26 18.00 23.38
Total Cost		798.68 620.67 809.48
Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin		391.35 304.17 376.58
Total Cost		1190.03 924.84 1186.06



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Cost Estimation of Waste Water / Sewerage					
Sub Work No. 2					
SUB HEAD NO 2		Waste Water / Sewerage			
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Providing Supplying of class SN 8 structured wall Polyethylene Piping system (Pipe with online/ offline coupler and lastomeric sealing ring) with non smooth external annular corrugated and smooth internal surface application as confirm to IS 16098 (part II):2013 lowering, cutting, jointing and testing, including cost of excavation, bed concrete, Man holes jointing materials as well as carriage, loading, unloading stacking, handling, rechanding etc, complete in all respects.	4939			
	250 mm id Pipe	5020	M	2500	125.50
	300 mm id Pipe	2208	M	2250	49.68
2	Providing, laying, jointing, testing CI/DI K-9 Pipe lines including cost of Excavation complete in all respect			2700	59.56
	Rising Main from Sump Well to STP 2.0 MLD.				63.59
	200 mm Id/ DI-K9	816	M	2700	22.03
3	Provision for Construction of Sum Well	1	LS	600000	6.00
4	Provision for Pumping Machinery	1	LS	700000	7.00
5	Provision of providing and fixing vent shafts at suitable places as per HUDA requirements at suitable places	1	LS	15000	0.60
3	Provision for Common Effluent Treatment Plant	0.40	MLD	1600000	64.00
3	Provision for Sewerage Treatment Plant	2.00	MLD	1600000	320.00
4	Provision of providing timbering and shoring, lamp holes ,carriage of materials and unforeseen items etc	1	LS	50000	0.50
5	Provision for cutting of roads and making good to its original condition	1	LS	200000	2.00
	providing making connection with drain sewer	1	LS	50000	0.50
	Total	1.1m			617.57
	TOTAL				617.57



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Cost Estimation of Horticulture Water Network					
Sub Work No. 2.					
SUB HEAD NO 2		(Recycling of Treated Water)			
Sr.No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Providing, laying, jointing, testing CI/DI K-7 Pipe lines including cost of Excavation complete in all respect	6314		1461	92.18
	100 mm/id	6201	Mtr	1259	27.51
	150 mm/id	914 1047	Mtr	1575	16.49 18.65
	200 mm/id	679	Mtr	2154	14.62
2	Providing and fixing cast iron double flanged sluice valve/ Butter Fly Valve including cost of all joint of material, carriage, loading, unloading, stacking, handling etc complete in all respect.			2700	18.33
	100 mm/id (Sluice Valve)	21	Nos.	12000	2.52
	150 mm/id (Sluice Valve)	16	Nos.	15000	2.40
	200 mm/id (Sluice Valve)	2	Nos.	20000	0.40
3	Provision for providing & fixing lawn hydrants/ at a distance of 30 m centre to centre on the periphery (green land) complete in all respects	6	Nos.	5000 3500 2500	0.30 0.21 0.21
4	Construction of Brick masonry Haudi for and Air valves including surface boxes complete	43	Nos.	10000	2.23 4.36
5	Providing and fixing C.I. double Air Valves, Butter Fly valves including carriage, loading, unloading, stacking, handling, re-handling etc., drilling, tapping, screwing in valves connections complete in all respects to the satisfaction of Engineer-in-charge	4	Nos.	10000	0.40
6	Provision for indicating Arrow Plates for sluice valve and Air Valves	43	Nos.	2000 450	0.86 0.17
7	Providing and fixing Scour valves including providing of chambers etc complete				
	100 mm	4	Nos.	12000	0.48
	150 mm	2	Nos.	15000	0.30
8	Civil work for Boosting Station including UGT suitable for the pumping machinery and D.G. set.	1	Nos.	360000	3.60
9	Providing and installing of pumping set with electric driven slip ring motor complete in all respects.	1	each	200000	2.00
10	Provision for carriage of materials and other unforeseen items	1	LS	150000 40000	1.50 0.40
11	Provision for cutting of roads and making good to its original condition	1	LS	200000 40000	2.00 0.40
	Total				125.34 150.22

-128.530



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Cost Estimation of Sub Work No. 3 (Storm Water Drainage)					
Sub Work No. 3					
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Providing, stringing, cutting and jointing RCC NP-3 pipe and specials in to Trenches including cost of excavation, cost of manholes, Road Gullies, ventilating chambers etc., complete in all respect. <i>⊗ A to E pl. See below</i>			3500	212.92 lak
	450 mm dia avg. depth 0-2 M	7465	M	2300	171.60
2	Provision for Carriage of Material <i>as other unforeseen items</i>	1	L.S.	10000	10.00
3	Provision of road gullies with 300mm dia. Pipe connection	1	L.S.	20000	20.00
4	Provision for carriage of materials and other unforeseen items <i>temporary disposal arrangement till 100% items are found</i>	1	L.S.	50000	50.00
5	Provision for cutting of roads and making good to its original condition	1	L.S.	50000	50.00
6	Provision for rain water harvesting arrangement at selected places complete in all aspects	66	L.S.	100000	6.60
7	<i>pro for making connection with Govt Sewer Drain</i>	3	L.S.	25000	0.75
	Total Cost			200000	435.87
	Add 3% contingency & PB charges			13.06	6.99
	Total Cost			448.34	265.02
	Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin			219.69	140.75
	Total			668.03	305.77
					820.95



- ⊗ a) 450 mm ϕ = 5730 mtr @ ₹ 2600/m → 148.98 lak
- b) 500 mm ϕ = 574 mtr @ ₹ 2700/m → 15.5 lak
- c) 600 mm ϕ = 98 m @ ₹ 3000/m → 2.94 lak
- d) 700 mm ϕ = 860 m @ ₹ 3500/m → 30.0 lak
- e) 800 mm ϕ = 308 m @ ₹ 5000/m → 15.4 lak
- Total** 812.92 lak
- For PROMINENT ENTERPRISES PVT. LTD.
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Cost Estimation of Sub Work No. 4 (Roads)					
Sub Work No. 4					
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Providing for levelling & earth filling : includes providing good earth transportation from source to site, laying in layer, rolling & watering & compaction to the desired specification complete as per MORT & H specifications for road & bridge works Clause - 305 for all leads and lifts as per site conditions	106.6625	Acres	175000 150000	186.66 159.99
2	Construction of Road for ROW - 12, 18 & 24 M				
	i) Providing GSB 300, 200 mm thick as per MORT & H specifications conforming to Clause 401 grading - II 400.1				
	ii) Providing Laying, spreading and compacting graded stone Wet Mix Macadam including Cost of Material Complete. 250 mm thick	61320 30,160	Sqm.	1500 1100	1052.40 471.76
	Providing, laying & compaction of Binder Course 65, 50 mm thick Complete in All Respect.				919.80 lcs
	30 mm thick B.C.				
	Providing, laying & compaction of Binder Course 50 mm thick Complete in All Respect.				
3	Providing & Fixing kerbs of C.C. M-20 grade as per standard size including back filling etc. complete in all respects.	4746 15142	mtr	1500 360	711.9 551.11
4	Providing & Fixing kerbs & channels of C.C. M-20 grade as per standard size including back filling etc. complete in all respects.	5500	mtr	600 720	330 40.8
5	Provision for foot path on both sides of Roads with pre cast tiles of cement concrete 1:1.5:3	22608 22720	Sqm	1000	227.20 203.47
6	Provision for Guide Maps	1	L S	50000 16000	50.00 0.16
7	Provision for demarcation Burjees	1	L S	50000 2000	50.00 0.02
8	Provision for carriage of material & unforeseen items	1	L S	50000 150000	50.00 150.00
9	Provision for Plot Indicators, Road Marking Strips & Post Delineators	1	L S	20000	0.20
10.	Provision for Plot Indicators, Road Marking Strips & Post Delineators	1	L S	20000	0.20
	Total Cost			1550.60	14.85
	Add 3% contingency & PB charges			46.70	0.36
	Total Cost			1603.30	15.21
	Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin			785.62	4.95
	TOTAL			2388.92	22.10.37



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Cost Estimation of Sub Work No. 5 (Horticulture and Road Side Plantation)				
Sub Work No. 5				
Sub Head No. 1		Qty.	Unit	Rate in Rs
Sr. No.	Description			Amount in Lakh
1	<u>DEVELOPMENT OF GREEN AREA</u> a) Trenching the ordinary soil up to depth of 60 cm i.e. removal and stacking of serviceable material & disposing by spreading and leveling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water excluding cost of imported earth and manure.			
	b) Supply and stacking sludge at site including royalty and carriage Green Area	3.5634	Acres	150000
	c) Rough dressing of turfed area Grassing with "DOOB GRASS" i.e. watering & maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit moving in rows 7.5 cm part in either direction including provision for hedges and barbed wire around park			
	d) Maintenance of lawns or turffing of slopes for a period of 1 year			
2	Planting of Trees with Tree Guards on roads at 12 m Interval both sides.	1265 628.00	Nos	1800
Total Cost				22.77
Add 3% contingency & PB charges				0.84
Total Cost				23.61
Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin				11.74
TOTAL				35.35



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Cost Estimation of Sub Work No. 6 (Street Lighting & Fittings)					
Sub Work No. 6					
Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	<i>Room street lighting on internal roads as per standard specification</i> Cost of Lighting & Fittings	27.4223 106.6625	Sqm.	250000	68.56 266.66
	Total Cost				68.56
	Add 3% contingency & PB charges				7.99 2.06
	Total Cost				70.52 274.65 lacs
	Add 49% Deptt. Charges & Price Escalation, Unforeseen & Admin				134.57 34.60 lacs
	TOTAL				105.22 409.22 lacs

c.o. to final estimate of cost



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**Cost Estimation of Sub Work No. 7
(Maintenance Charges Including Resurfacing of Roads)**

Sr. No.	Description	Qty.	Unit	Rate in Rs	Amount in Lakh
1	Provision of maintenance charges for water supply, sewerage, storm water drainage, roads, street light, horticulture etc. complete including operation and establishment charges as per HUDA norms after completion and resurfacing of roads after 10 years.	27.4223 106.6625	Acres	800000	219.38 853.30 lacs
2	Provision of resurfacing of roads after 1st 5years of maintenance by providing 30 mm thick BC	61320 70160	Sqm.	6601- 600	404.71 lacs 420.96
3	Provision of surfacing of roads after 10 years by providing 30 mm thick BC	61320 70160	Sqm.	800 750 8251	561.28 526.20 505.89 lacs
	Total Cost			1201.62	1166.54 1763.90
	Add 3% contingency & PB charges			36.05	33.06 52.92
	Total Cost			1237.67	1201.54 1816.82
	Add 49% Deptt. Charges & Price Escalation, Unforseen & Admin			606.46	588.75 890.24
	TOTAL			1844.13	1790.29 2707.06



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Water Demand Statement

2.100	Source of Water										
2.101	Main source of proposed Water Works near KMP.										
2.102	Initial Source of water will be from Tubewell source till date the canal water is made available by Controlling Authorities.										
2.103	It is Proposed Initial demand of water for 5 years period is 40% of Total Water Demand. The water for Initial demand will be Arranged for Tubewell Source.										
2.104	Zone Wise Demand of Tubewell is Calculated as Under.	Zone-1	Zone-2								
2.105	Total Fresh water demand	401	1525								
2.106	Water Demand to meet tubewell source	160.4	610								
2.107	Average yield per hour in Manesar Area	15	15								
2.108	No. of Running Hours	16	16								
2.109	Total Yield from One tubewell	240	240								
2.11	No. of Tubewells Required	0.67	2.54								
2.111	Add 10% Standby	0.07	0.25								
2.112	No. of Tubewells Required	1.00	3.00								
2.113	Rising Main From Tubewell No. 1 in Industrial Area	20.00									
2.114	Rising Main From Tubewell No. 1 in Residential Area		80.00								



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Total Water Requirement M10 & M9

Area Breakup							
1.001	Total Area under Scheme			186.6625	Acres		
1.002	Break up of Area						
1.003	Area under 60 M wide Road			8.42250	Acres		
1.004	Balance Area			186.24000	Acres		
1.005	50% benefit of Area under 60 M wide Sector Road			8.21125	Acres		
1.006	Total Area			186.45925	Acres		
1.007	Area under UD			4.23700	Acres		
1.008	Net Planned Area			182.22425	Acres		
1.1	Residential Zone						
1.101	Area under Affordable Residential Plotted Colony under DDJAY			28.9728	Acres		
1.102	Area under Commercial			8.40840	Acres		
1.103	Area under Green			3.56340	Acres		
1.104	Area under Community Site			4.7737	Acres		
1.105	Area under UD			4.23700	Acres		
1.106	Area under Roads			16.4218	Acres		
1.107	Total Area			58.4571	Acres		
1.2	Area under Industrial Plot			26.51740	Acres		
1.201	Area under Electric Sub Station	1408		8.3479	Acres		
1.202	Area Under Ground Tank & Water Treatment Plant	561.84		8.1388	Acres		
1.203	Area under ETP	812.63		8.1088	Acres		
1.204	Area under Roads	8.07413219		11.0005	Acres		
1.205	Sub Total			48.18040	Acres		
1.206	Grand Total			166.6625	Acres		
1.3	WATER REQUIREMENT M9 & M10						
1.31	Residential						
1.311	Area under Affordable Residential Plotted Colony under DDJAY	28.9728	Acres	Total Water Demand	Total Fresh Water Demand	Total Recycled Water Demand	Estimated Waste Water Generation
1.312	Total No. of Plots	845	No.		67%	33%	
1.313	No. of Dwelling Units Allowed	3	No.				
1.314	Population Allowed per Unit	4.5	No.				
1.315	Total Population	11401.50	Persons				
1.316	Water Allowance	155.5	LPCD				
1.317	Daily Water Requirement	1773866.3	Litres	1773866.3	1188499.380	585375.8625	1556168.173
1.41	Area under Commercial	8.4884	Acres				
1.411	Area in Sqm	1076.5	Sqm				
1.412	Working Population Norms 1 person/5 Sqm Area = 19563/559 persons	659	persons				
1.413	Water Allowance	45.0	LPCD				
1.414	Daily Water Requirement	26655.0	Litres	29655.0	19868.85	9786.15	25681.23
1.51	Area under Community Site	4.774	Acres				
1.511	Water Allowance	25000.0	Litre / Acre				
1.512	Daily Water Requirement	110342.5	Litres	119342.5	79959.675	39385.025	103350.605
1.513	Green Area within Plot	1.909	Acres				
1.514	Water Allowance	25000.0	Litre / Acre				
1.515	Daily Water Requirement	47737.0	Litres	47737.0		47737	
1.61	Area under UD	4.237	Acres				
1.612	Water Allowance	25000.0	Litre / Acre				
1.613	Daily Water Requirement	105925.0	Litres	105925.0	70960.35	34955.25	91731.85
1.71	Area under Roads	16.422	Acres				
1.711	Water Allowance	5000.0	Litre / Acre				
1.712	Daily Water Requirement	82100.0	Litres	82100.0		82100.0	
1.81	Area under Green	3.563	Acres				
1.811	Water Allowance	25000.0	Litre / Acre				
1.812	Daily Water Requirement	89085.0	Litres	89085.0		89085.0	
1.91	Daily Water Requirement of Mts Staff	45000.0	Litres	45000.0	30000.0	15000	50000
1.911	Total Area	58.4571	Acres				

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Total Water Requirement M10 & M9							
1.912							
1.913	Sub Total Residential Area	2292719.75	Litres	2292719.75	1389288.46	90331.29	179531.00
1.914	Qty. in KL	2292	KL				
2.01	Industrial Zone						
2.011	Area under Industrial Plots	55.5	Acres				
2.012	Work Area/Area under Industrial Plots	21.9	Acres				
2.013	Water Allowance	25000.0	Litre / Acre				
2.014	Daily Water Requirement	547761.0	Litres	547761.0	360999.87	180761.13	47061.026
2.015	Green Area/Area under Industrial Plots	14.0	Acres				
2.016	Water Allowance	25000.0	Litre / Acre				
2.017	Daily Water Requirement	365174.0	Litres	365174.0		365174.0	
2.11	Area under Electric Sub Station	0.3	Acres				
2.111	Water Allowance	10000.0	Litre / unit				
2.112	Daily Water Requirement	10000.0	Litres	10000.0	10000.0		8000
2.21	Area Under Ground Tank & Water Treatment Plant	0.1	Acres				
2.211	Water Allowance	10000.0	Litre / Unit				
2.212	Daily Water Requirement	10000.0	Litres	10000.0	10000.0		8000
2.31	Area under ETP	0.2	Acres				
2.311	Water Allowance	10000.0	Litre / per unit				
2.312	Daily Water Requirement	10000.0	Litres	10000.0	10000.0		8000
2.41	Area under Roads	11.0	Acres				
2.411	Water Allowance	5000.0	Litre / Acre				
2.412	Daily Water Requirement	55002.5	Litres	55002.5		55002.5	
2.413	Area of Industrial Zone	48.21	Acres				
2.414	Total Water Requirement Industrial Zone in Litre		997937.50	997937.5	500509.9	600937.6	498261.0
2.415	Total Water Requirement Industrial Zone in KL		998.60				
2.416	Total Area Industrial and Residential		106.66				
2.417	Total Water Demand in Litres		5290657.25	5290657.3	1786588.3	1503368.9	2203292.1
			Total	Residential	Industrial		
2.419	Total Water Demand in KL		5291.00	2283.0	998.0		
2.42	Total Fresh Water Demand in KL		1787.0	1390	397		
2.421	Total Recycled Water Demand in KL		1504.0	903	601		
2.422	Estimated Waste Water Generation in KL			1795	498		
2.5100	Fire Demand						
2.5101	Residential Area	=			58.40	Acres	
2.5102	Fire Fighting Demand in KL	=		(Population(auction in Thousands)*0.5*100)		KL	
2.5103	Population	=			11407.5	Persons	
2.5104	Fire Fighting Demand in KL		(11407.50*1000)*0.5*100		338	KL	
2.5105	Industrial Area	=			48.20540	Acres	
2.5106	Fire Fighting Demand in KL	=			220*Area in Hectare*100	KL	
2.5107	Fire Fighting Demand in KL		220*48.20540*2.471/100		43	KL	
2.6100	Horticulture Demand/Recycled demand				1504	KL	
2.6101	Industrial Area Horticulture Demand/Recycled demand				601	KL	
2.6102	Residential Area Horticulture Demand/Recycled demand				903	KL	

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Total Water Requirement M10 & M9					
2.603	Total Water Requirement for UGT excluding Fire Demand				
2.604	Industrial Area		598.0	KL	
2.605	Fresh Water Requirement		307	KL	
2.606	Recycled Water Requirement		601	KL	
2.607	UGT to meet Fresh Water Requirement @ 60% of Fresh Water Demand		238.2	KL	
2.608	It is proposed to construct UGT of 24" dia in Two compartment to meet Fresh Water Demand & Fire Demand				
2.609	Residential Area		2293.0	KL	
2.610	Fresh Water Requirement		1390.0	KL	
2.611	Recycled Water Requirement		903.0	KL	
2.612	UGT to meet Fresh Water Requirement @ 60% of Fresh Water Demand		1390 x 0.60 = 834 KL	KL	
2.613	It is proposed to construct UGT of 24" dia in Two compartment to meet Fresh Water Demand & Fire Demand				
2.710	Source of Water				
2.711	Main source of proposed Water Works near KMP.				
2.712	Initial Source of water will be from Tubewell source till date the canal water is made available by Controlling Authorities.				
2.713	It is Proposed Initial demand of water for 5 years period is 40% of Total Water Demand. The water for initial demand will be Arranged for Tubewell Source.				
2.714	Zone Wise Demand of Tubewell is Calculated as Under.		Residential Area	Industrial Area	
2.715	Total Fresh water demand		1390	307	
2.716	Water Demand to meet tubewell source		556	158.8	
2.717	Average yield per hour in Monsoon Area		15	15	
2.718	No. of Running Hours		16	16	
2.719	Total Yield from One tubewell		240	240	
2.72	No. of Tubewells Required		2.317	0.662	
2.721	Add 10% Standby		0.232	0.066	
2.722	No. of Tubewells Required		3	1	
2.723	Rising Main From Tubewell No. 1 in Industrial Area		20		
2.724	Rising Main From Tubewell No. 1 in Residential Area			30	
2.810	Pumping Machinery for Tubewell				
2.811	Gross Working Head		80	Mtr	
2.812	Average Fall		2	Mtr	
2.813	Depression Head		5	Mtr	
2.814	Friction loss in main		10	Mtr	
2.815	Total		97	Mtr	
2.816	Discharge		15000	LPH (or 4.17 LPS say 4.50 LPS)	
2.817	Horse Power		9.2	H.P	
2.818	HP = (4.50 x 98) / (75 x 0.60)				
2.819			10	H.P	
2.82	It is proposed to provide 1 No. Pumping Set of 4.50 LPS discharge at 98 Mtr. Head (1W)				
2.821	Provide 4 Nos. Generating Set of 20 Kva Capacity				

For PROMINENT ENTERPRISES PVT. LTD.

Authorised Signatory

