

**M/S REGIONAL CONSTRUCTION PVT. LTD.
AFFORDABLE PLOTTED COLONY UNDER DEEN
DAYAL JAN AWAS YOJNA IN SECTOR-5, SOHNA**

SERVICE PLAN ESTIMATE

ARCHITECT:

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PROJECTS

M/s Regional Construction Pvt. Ltd . area 15.0Acres, Affordable Plotted Colony Under Deen Dayal Jan Awas Yojna in Sector-5,

Sohna

REPORT

Sohna Town of Haryana State situated on Delhi-Alwar Road at a distance 65km from Delhi. Being in the national capital region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Residential, Commercial and Industrial load of Delhi. In order to review the growing pressure of population in National Capital of Delhi. It has been decided by the Haryana Government to develop various infrastructure facilities in Sohna Development Area. This report is for proposed Affordable Plotted Colony Under Deen Dayal Jan Awas Yojna , Land Measuring 15.0 Acres, at, Sector-5, Sohna being developed by M/s Regional Construction Pvt. Ltd. has been prepared with the following provisions which are as under:-

Water Supply

1. Source

The source of water supply in this area is tube well as underground water is sweet and fit for human consumption, moreover, the water is available at reasonable depth, the average yield of Tube wells, with approximate 60 ' to 80 metre depth will be about 15 KL per hour. 1 No. Tube wells are required to meet with the daily requirement of water.

2. Tube wells

The proposed tube wells shall be 510 mm bore drilled with reverse rotary rig and installed with 80 mm i/d housing pipe and 50 mm i/d slotted tube as strainer. The provision taken in the estimate under the sub-head tube well includes the cost of pea gravel packing. The lift of tube well is limited due to incrustation and rusting of strainer. Therefore, out of these tube wells the drilling of tube wells will be done for 3 Nos. tube wells and further tube wells will be drilled as the demand develops till the scheme is handed over the department.

3. Pump Chambers and Pumping Machinery

It is proposed to occupy each tube well with an electricity driven pumping set-submersible pump capable of delivering about 15,000 Liters per hour. It has been proposed to install pumping set as described with standby of equal capacity.

4. Ground Storage

Underground storage tank for One day of total daily demand of water supply have been proposed at one location in the scheme. The same shall be fed by Tube



well at present and shall be later augmented through HUDA mains canal supply at later date.

6. **Distribution System**

The distribution system for this development is has been designed for 172.5 Liters per person per day @3.0 times the average rate of flow on "Hazen Williams" formula with C-100. Necessary provision for laying C.I./D.I. pipes only conforming to relevant IS standards along with valves and specials has been made in this Estimate.

7. **Rising Main**

Rising mains from HUDA water main on sector road to water works have also been designed and provision for C.I. (class LA)/DI KA pipe line has been made in this estimate

8. **Sewerage**

The internal sewer lines have also been designed for three times average D.W.F in relation to water supply demand. It has been assumed that about 90 % of the domestic water supply shall find its way into the proposed sewer. All the SW / RCC pipes, sewer has been designed to run half/full/three fourth full.

Necessary design statement for entire internal sewerage system has been prepared and attached with estimate.

Necessary provision for laying SW/RCC pipes sewer lines and manholes etc. has been made in this estimate.

9. **Storm water drainage**

It has been proposed to lay underground RCC-NP3 pipe drains on the road widths 40 ft. and above where it is possible to lay underground drains. The intensity of rain fall has been taken as 1/4th inch per hour. The internal storm water drains will be jointed into external storm water drainage to be laid by HUDA on sector dividing roads. Necessary provision for curves and channels has been made in the estimate. The estimate for these closed drains has been included as sub work no. III A minimum size of 400 mm RCC storm water line will be provided.

10. **Specifications**

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

11. **Roads**

Cost of road has been taken in the estimate

12. **Street Lighting**

Provision for street lighting on surrounding area has been made.

13. **Horticulture**



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

14. Specifications

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

15. Rates

The estimate has been based on the present market rates and probable escalation in prices.

16. Cost

The total cost of the Scheme including cost of all services works out to **Rs. 1230.1 lakhs** including 3% contingencies and 49% (departmental charges, unfrozen, price escalation and admin charges).

Cost per acres 81.0 lakhs.

-:-



PLOTTED DEVELOPMENT AT SECTOR-A, SOHNA, HARYANA

SUBJECT: POPULATION & WATER DEMAND CALCULATIONS

| S. No. | Unit Type | Category as per latest NBC | Total Area (in Sqm) | Persons considered per plot as per HUDA norms | Total Population | LPCD Factor for Potable Water Req. | LPCD Factor for Flushing Water Req. | Potable Water Requirement (LPD) | Flushing Water Requirement (LPD) | Total Water Requirement (LPD) |
|--|--|----------------------------|---------------------|---|------------------|------------------------------------|-------------------------------------|---------------------------------|----------------------------------|-------------------------------|
| I. DOMESTIC WATER DEMAND | | | | | | | | | | |
| 1 | Plots | Residential | 288 | 13.5 | 3888 | 115.6 | 56.9 | 449336.2 | 221343.8 | 670,680 |
| 2 | Commercial Block | Business | 2427.35 sq.foot | | 320001/ac | | | 12864.0 | 6336.0 | 19,200 |
| 3 | Common Facilities | | 6671.95 or 1.5 ac | 1.5 | | | | 25125.0 | 12379.0 | 37,500 |
| | Total | | | | | | | 48735 | 240055 | 727380 |
| | Grand Total | | | | | | | 487325 | 240054.8 | 727380 |
| | Say in Carry/day | | | | | | | 490 | 245 | 730 |
| II. HORTICULTURAL WATER DEMAND | | | | | | | | | | |
| | For approx. 20% of Total site area approx. 15 Acre @ 25000 litres/Acre(say) | | | | | | | | | |
| | Total, Say (in Carry, per day) | | | | | | | | | |
| TOTAL WATER REQUIREMENTS FOR ALL PURPOSES | | | | | | | | | | |
| | 75000 | | | | | | | | | |
| | 75 | | | | | | | | | |
| | 805 | | | | | | | | | |
| III. TUBE WELLS | | | | | | | | | | |
| (a) | Yield | | | | | | | | 15 | KL/Hr |
| (b) | Working Hours per Day | | | | | | | | 16 | Hours per Day |
| | Discharge per Tube well | | | | | | | | 240 | |
| (c) | Total water demand | | | | | | | | 490 | m ³ /day |
| (d) | Number of Tube wells required. (Water Demand/Discharge/Hours working per day) | | | | | | | | 2.04 | |
| (e) | Add 5% as standby | | | | | | | | 0.10 | Nos. |
| | Total | | | | | | | | 2.14 | Nos. |
| | Say | | | | | | | | 3.00 | Nos. |

(Water in the proposed development is to be supplied by HUDA and it is proposed to install the tube-wells for augmentation/standby purposes).



| VI.(B) BOOSTING MACHINERY (Flushing & Garden Supply Pumps from STP) | | | |
|---|---|--------|----------------------|
| (a) | Daily Flushing & Horticultural Water Demanded. | | m ³ /day |
| (b) | Discharge per hour @ 8 hr. pumping/day | 320 | m ³ /hour |
| (c) | No. of Working pump | 40.00 | LPM |
| (d) | Proposed Pump discharge (Working) | 670.00 | LPM |
| | | Say | |
| | | 3 | |
| | | 223.33 | LPM |
| | | Say | |
| | | 300 | LPM |
| | Gross Working Head | | |
| (e) | Section lift - positive suction | 6 | Meters |
| (f) | Frictional Loss in Mains & Specials | 9 | Meters |
| (g) | Max Clear Head required | 20 | Meters |
| | Total | 35 | Meters |
| (h) | H.P. of each pump required (Pump H.P.) | 3.89 | HP |
| | | Say | |
| | | 4 | HP |
| VII. GENERATING SETS | | | |
| 1 | HP of Tube well pump | 27.00 | |
| 2 | HP of Domestic water supply Pump | 16.00 | |
| 3 | HP of Flushing water supply Pump | 12.00 | |
| | Total | 55.00 | HP |
| | in KVA | 39.86 | KVA |
| | SAY | 50 | KVA |
| VIII. STP CAPACITY | | | |
| 1 | STP Capacity will be = total water required per day = 730kl x 75% = 547.5 kld say | 550.00 | KLD |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: FINAL ABSTRACT OF COST

| | | Amount in Rs. Lacs |
|---------------------|--|-----------------------|
| SUB WORK NO. I | WATER SUPPLY SCHEME | 280.50 |
| SUB WORK NO. | SEWERAGE SCHEME | 175.43 |
| SUB WORK | STORM WATER DRAINAGE | 100.03 |
| SUB WORK | ROADS & FOOT PATHS | 240.88 |
| SUB WORK NO.V | STREET LIGHTING | 57.55 |
| SUB WORK NO. | HORTICULTURE (PLANTATION & ROAD SIDE TREES) | 12.85 |
| SUB WORK NO. VII | MTC CHARGES INCL RESURFACING OF ROADS AFTER 1st 5 YEARS | 362.85 |
| | TOTAL | 1230.10 |

TOTAL : (Rupees Twelve Crores ThirtyLacs and Ten Thousand Only)

AUTHORISED SIGNATORY



| SUB WORK No. 1 (Abstract of Cost) | | Water Supply & Fire Fighting | |
|-----------------------------------|-----------------|---|----------------------|
| 1 | Sub Head No. 01 | Head Works | Rs.8,053,250 |
| 2 | Sub Head No. 02 | Pumping Machinery | Rs.2,200,000 |
| 3 | Sub Head No. 03 | Rising Main | Rs.388,000 |
| 4 | Sub Head No. 04 | Distribution System | 7,635,900 |
| | | TOTAL | Rs.18,277,150 |
| | | Add 3% contingencies & PH Charges | Rs.548,314.50 |
| | | TOTAL | Rs.18,825,465 |
| | | Add 49% Departmental charges + Price escalation | Rs.9,224,477.61 |
| | | TOTAL | Rs.28,049,942 |
| | | Say in lacs | 280.50 |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA
 SUBJECT: DOMESTIC WATER SUPPLY DESIGN SHEET

| S. No. | Line Designation | | No. of Flat | Water Requirements (in KLD) | Self Water requireme nt (in KLD) | Branch Water requirement (in KLD) | Total Water Requirements (in KLD) | Discharge per Hour considering 8 Hours Pumping | Size of Pipe Provided | Velocity in m/sec. | Head Loss per 1000m | Loss of head as per pipe length | Length of pipe(in meters) | Ground Level | | Hydraulic Level | | Terminal Head |
|--------|------------------|----|-----------------|-----------------------------|----------------------------------|-----------------------------------|-----------------------------------|--|-----------------------|--------------------|---------------------|---------------------------------|---------------------------|--------------|--------|-----------------|---------|---------------|
| | FROM | TO | | | | | | | | | | | | Start | End | Start | End | |
| 1 | WTP | 1 | | 0.00 | 0.00 | 449.99 | 449.99 | 56.348 | 150 | 0.89 | 8.66 | 0.019 | 2 | 94.30 | 100.30 | 129.300 | 129.281 | 28.981 |
| 2 | 1 | 2 | | 0.00 | 0.00 | 449.99 | 449.99 | 56.348 | 100 | 1.99 | 69.58 | 0.209 | 3 | 100.30 | 100.30 | 129.281 | 129.072 | 28.772 |
| 3 | 2 | 3 | | 0.00 | 0.00 | 449.99 | 449.99 | 56.348 | 100 | 1.99 | 69.58 | 0.209 | 3 | 100.30 | 100.30 | 129.072 | 128.863 | 28.563 |
| 4 | 3 | 4 | | 0.00 | 0.00 | 196.79 | 196.79 | 24.599 | 100 | 0.87 | 15.06 | 0.121 | 8 | 100.30 | 100.30 | 128.863 | 128.743 | 28.443 |
| 5 | 4 | 20 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 100 | 0.00 | 0.00 | 0.000 | 8 | 100.30 | 100.30 | 128.743 | 128.743 | 28.443 |
| 6 | 4 | 5 | 0 | 0.00 | 0.00 | 196.79 | 196.79 | 24.599 | 100 | 0.87 | 15.06 | 0.121 | 70 | 100.30 | 100.30 | 128.743 | 127.553 | 27.253 |
| 7 | 5 | 6 | 15 | 23.41 | 23.41 | 23.41 | 23.41 | 2.926 | 100 | 0.10 | 0.29 | 0.031 | 104 | 100.30 | 100.30 | 127.553 | 127.553 | 27.253 |
| 8 | 5 | 7 | | 0.00 | 0.00 | 173.38 | 173.38 | 21.673 | 100 | 0.77 | 11.92 | 0.083 | 7 | 100.30 | 100.30 | 127.553 | 127.469 | 27.169 |
| 9 | 7 | 8 | 15 | 23.41 | 23.41 | 23.41 | 23.41 | 2.926 | 100 | 0.10 | 0.29 | 0.031 | 107 | 100.30 | 100.30 | 127.469 | 127.438 | 27.138 |
| 10 | 7 | 9 | | 0.00 | 0.00 | 149.97 | 149.97 | 18.747 | 100 | 0.66 | 9.11 | 0.346 | 36 | 100.30 | 100.30 | 127.438 | 127.123 | 26.823 |
| 11 | 9 | 10 | 7 | 10.92 | 10.92 | 10.92 | 10.92 | 1.366 | 100 | 0.05 | 0.07 | 0.003 | 43 | 100.30 | 100.30 | 127.123 | 127.120 | 26.820 |
| 12 | 9 | 11 | | 0.00 | 0.00 | 139.05 | 139.05 | 17.961 | 100 | 0.62 | 7.92 | 0.055 | 7 | 100.30 | 100.30 | 127.123 | 127.067 | 26.767 |
| 13 | 11 | 12 | 6 | 9.36 | 9.36 | 9.36 | 9.36 | 1.170 | 100 | 0.04 | 0.05 | 0.002 | 43 | 100.30 | 100.30 | 127.067 | 127.065 | 26.765 |
| 14 | 11 | 13 | 6 | 9.36 | 9.36 | 120.32 | 129.69 | 16.211 | 100 | 0.57 | 6.96 | 0.201 | 72 | 100.30 | 100.30 | 127.067 | 126.566 | 26.266 |
| 15 | 13 | 14 | | 0.00 | 0.00 | 56.18 | 56.18 | 7.023 | 100 | 0.25 | 1.48 | 0.010 | 7 | 100.30 | 100.30 | 126.566 | 126.556 | 26.256 |
| Common | | | | | | | | | | | | | | | | | | |
| 16 | 13 | 13 | Common facility | 25.13 | 25.13 | | 25.13 | 3.141 | 100 | 0.11 | 0.33 | 0.001 | 2 | 100.30 | 100.30 | 126.556 | 126.565 | 26.265 |
| 16 | 14 | 15 | 16 | 26.09 | 26.09 | | 26.09 | 3.511 | 100 | 0.12 | 0.41 | 0.052 | 126 | 100.30 | 100.30 | 126.556 | 126.304 | 26.204 |
| 17 | 14 | 16 | 18 | 26.09 | 26.09 | | 26.09 | 3.511 | 100 | 0.12 | 0.41 | 0.064 | 156 | 100.30 | 100.30 | 126.304 | 126.492 | 26.192 |
| 18 | 14 | 17 | 5 | 7.80 | 7.80 | 31.21 | 39.02 | 4.877 | 100 | 0.17 | 0.75 | 0.028 | 37 | 100.50 | 100.30 | 126.492 | 126.538 | 26.238 |
| 19 | 17 | 19 | 18 | 26.09 | 26.09 | | 26.09 | 3.511 | 100 | 0.12 | 0.41 | 0.053 | 133 | 100.30 | 100.30 | 126.538 | 126.403 | 26.183 |
| 20 | 17 | 18 | 2 | 3.12 | 3.12 | | 3.12 | 0.390 | 100 | 0.01 | 0.01 | 0.000 | 12 | 100.30 | 100.30 | 126.403 | 126.538 | 26.238 |
| 21 | 3 | 21 | 4 | 6.24 | 6.24 | 246.95 | 253.20 | 31.650 | 100 | 1.12 | 24.01 | 0.528 | 22 | 100.30 | 100.30 | 126.538 | 128.333 | 28.033 |
| 22 | 21 | 22 | | 0.00 | 0.00 | 123.11 | 123.11 | 15.263 | 100 | 0.54 | 6.25 | 0.573 | 92 | 100.30 | 100.30 | 128.333 | 127.762 | 27.462 |
| 23 | 22 | 23 | 5 | 7.80 | 7.80 | | 7.80 | 0.975 | 100 | 0.03 | 0.04 | 0.002 | 40 | 100.30 | 100.30 | 127.762 | 127.760 | 27.460 |
| 24 | 22 | 24 | | 0.00 | 0.00 | 114.30 | 114.30 | 14.268 | 100 | 0.51 | 5.51 | 0.044 | 8 | 100.30 | 100.30 | 127.762 | 127.718 | 27.418 |
| 25 | 24 | 25 | 10 | 15.61 | 15.61 | | 15.61 | 1.931 | 100 | 0.07 | 0.14 | 0.010 | 75 | 100.50 | 100.30 | 127.718 | 127.707 | 27.407 |
| 26 | 24 | 26 | | 0.00 | 0.00 | 98.70 | 98.70 | 12.337 | 100 | 0.44 | 4.20 | 0.202 | 46 | 100.30 | 100.30 | 127.707 | 127.316 | 27.216 |
| 27 | 26 | 27 | 7 | 10.92 | 10.92 | | 10.92 | 1.366 | 100 | 0.05 | 0.07 | 0.004 | 61 | 100.30 | 100.30 | 127.316 | 127.516 | 27.212 |
| 28 | 26 | 28 | | 0.00 | 0.00 | 87.77 | 87.77 | 10.972 | 100 | 0.39 | 3.38 | 0.027 | 8 | 100.30 | 100.30 | 127.516 | 127.489 | 27.189 |
| 28 | 28 | 29 | 3 | 4.68 | 4.68 | | 4.68 | 0.585 | 100 | 0.02 | 0.01 | 0.000 | 29 | 100.30 | 100.30 | 127.489 | 127.488 | 27.188 |
| 30 | 28 | 30 | 3 | 4.68 | 4.68 | 78.41 | 83.09 | 10.366 | 100 | 0.57 | 3.06 | 0.092 | 30 | 100.30 | 100.30 | 127.489 | 127.397 | 27.097 |
| 31 | 30 | 31 | 0 | 0.00 | 0.00 | 67.49 | 67.49 | 8.436 | 100 | 0.30 | 2.08 | 0.031 | 15 | 100.30 | 100.30 | 127.397 | 127.366 | 27.066 |
| 32 | 31 | 32 | 7 | 10.92 | 10.92 | 0.00 | 10.92 | 1.366 | 100 | 0.05 | 0.07 | 0.004 | 51 | 100.30 | 100.30 | 127.366 | 127.397 | 27.094 |
| 33 | 32 | 33 | 7 | 10.92 | 10.92 | 45.64 | 56.56 | 7.070 | 100 | 0.25 | 1.50 | 0.108 | 72 | 100.50 | 100.30 | 127.394 | 127.286 | 26.986 |



| S. No. | Line Designation | | No. of Plot | Water Requirements (in KLD) | Self Water requirement (in KLD) | Branch Water requirement (in KLD) | Total Water Requirements (in KLD) | Discharge per Hour considering 8 Hours Pumping (KLD/hr) | Size of Pipe Provided (mm) | Velocity (m/sec) | Head Loss per 100m (m) | Loss of head as per pipe length (m) | Length of pipe (in meters) | Ground Level | | Hydraulic Level | | Terminal Head |
|--------|------------------|----|-------------|-----------------------------|---------------------------------|-----------------------------------|-----------------------------------|---|----------------------------|------------------|------------------------|-------------------------------------|----------------------------|--------------|--------|-----------------|---------|---------------|
| | FROM | TO | | | | | | | | | | | | Start | End | Start | End | |
| 34 | 33 | 34 | 0 | 0.00 | 0.00 | 23.79 | Total 23.79 | 2.974 | 100 | 0.11 | 0.30 | 0.002 | 8 | 100.30 | 100.30 | 127.394 | 127.391 | 27.091 |
| 35 | 34 | 35 | 7 | 10.92 | 10.92 | 0.00 | 10.92 | 1.366 | 100 | 0.05 | 0.07 | 0.003 | 44 | 100.30 | 100.30 | 127.391 | 127.388 | 27.088 |
| 36 | 34 | 36 | COMMERCIAL | 12.86 | 12.86 | 0.00 | 12.86 | 1.608 | 100 | 0.06 | 0.10 | 0.002 | 22 | 100.30 | 100.30 | 127.391 | 127.389 | 27.089 |
| 37 | 35 | 37 | 6 | 9.36 | 9.36 | 12.48 | 21.85 | 2.731 | 100 | 0.10 | 0.26 | 0.012 | 47 | 100.30 | 100.30 | 127.389 | 127.377 | 27.077 |
| 38 | 37 | 38 | 8 | 12.48 | 12.48 | 0.00 | 12.48 | 1.561 | 100 | 0.06 | 0.09 | 0.008 | 92 | 100.30 | 100.30 | 127.389 | 127.381 | 27.081 |
| 39 | 21 | 39 | 0 | 0.00 | 0.00 | 124.85 | 124.85 | 15.606 | 100 | 0.55 | 6.49 | 0.045 | 7 | 100.30 | 100.30 | 127.381 | 127.335 | 27.035 |
| 40 | 39 | 40 | 25 | 39.02 | 39.02 | 0.00 | 39.02 | 4.877 | 100 | 0.17 | 0.75 | 0.149 | 198 | 100.30 | 100.30 | 127.381 | 127.251 | 26.931 |
| 26 | 39 | 41 | | 0.00 | 0.00 | 85.83 | 85.83 | 10.779 | 100 | 0.38 | 3.25 | 0.114 | 35 | 100.30 | 100.30 | 128.333 | 128.221 | 27.921 |
| 27 | 41 | 44 | 27 | 42.34 | 42.34 | 0.00 | 42.34 | 5.267 | 100 | 0.19 | 0.87 | 0.189 | 217 | 100.30 | 100.30 | 128.221 | 128.033 | 27.733 |
| 28 | 41 | 42 | 0 | 0.00 | 43.70 | 0.00 | 43.70 | 5.462 | 100 | 0.19 | 0.93 | 0.007 | 7 | 100.30 | 100.30 | 128.033 | 128.026 | 27.726 |
| 29 | 42 | 43 | | 0.00 | 0.00 | 93.64 | 93.64 | 11.705 | 100 | 0.42 | 3.61 | 0.061 | 16 | 100.30 | 100.30 | 128.221 | 128.160 | 27.860 |
| 30 | 43 | 45 | 28 | 43.70 | 43.70 | 17.17 | 60.86 | 7.668 | 100 | 0.27 | 1.72 | 0.380 | 221 | 100.30 | 100.30 | 128.160 | 127.781 | 27.481 |
| 31 | 20 | 4C | 11 | 17.17 | 17.17 | | 17.17 | 2.146 | 100 | 0.08 | 0.17 | 0.014 | 86 | 100.30 | 100.30 | 127.781 | 127.766 | 27.466 |
| 32 | 30 | 4B | 21 | 32.77 | 32.77 | 0.00 | 32.77 | 4.097 | 100 | 0.15 | 0.55 | 0.087 | 160 | 100.30 | 100.30 | 128.160 | 128.073 | 27.273 |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: WATER SUPPLY PIPES SHEET

| S. No. | Line Designation | | Size of Pipe Provided | Length of pipe |
|--------------------|------------------|-----------------|-----------------------|----------------|
| | | | mm | metres |
| 1 | WIP | 1 | 150 | 2 |
| 2 | 1 | 2 | 100 | 3 |
| 3 | 2 | 3 | 100 | 3 |
| 4 | 3 | 4 | 100 | 8 |
| 5 | 4 | 20 | 100 | 8 |
| 6 | 4 | 5 | 100 | 79 |
| 7 | 5 | 6 | 100 | 104 |
| 8 | 5 | 7 | 100 | 7 |
| 9 | 7 | 8 | 100 | 107 |
| 10 | 7 | 9 | 100 | 38 |
| 11 | 9 | 10 | 100 | 43 |
| 12 | 9 | 11 | 100 | 7 |
| 13 | 11 | 12 | 100 | 43 |
| 14 | 11 | 13 | 100 | 72 |
| 15 | 13 | 14 | 100 | 7 |
| 16 | 13 | Common Facility | 100 | 2 |
| 17 | 14 | 15 | 100 | 126 |
| 18 | 14 | 16 | 100 | 156 |
| 19 | 14 | 17 | 100 | 37 |
| 20 | 17 | 19 | 100 | 133 |
| 21 | 17 | 18 | 100 | 12 |
| 22 | 3 | 21 | 100 | 22 |
| 23 | 21 | 22 | 100 | 92 |
| 24 | 22 | 23 | 100 | 40 |
| 25 | 22 | 24 | 100 | 8 |
| 26 | 24 | 25 | 100 | 75 |
| 27 | 24 | 26 | 100 | 48 |
| 28 | 26 | 27 | 100 | 61 |
| 2 | 26 | 28 | 100 | 8 |
| 3 | 28 | 29 | 100 | 29 |
| 4 | 28 | 30 | 100 | 30 |
| 5 | 30 | 31 | 100 | 15 |
| 6 | 31 | 32 | 100 | 51 |
| 7 | 31 | 33 | 100 | 72 |
| 8 | 33 | 34 | 100 | 8 |
| 9 | 34 | 35 | 100 | 44 |
| 10 | 34 | 36 | 100 | 22 |
| 11 | 35 | 37 | 100 | 47 |
| 12 | 37 | 38 | 100 | 92 |
| 13 | 21 | 39 | 100 | 7 |
| 14 | 39 | 40 | 100 | 198 |
| 15 | 39 | 41 | 100 | 35 |
| 16 | 41 | 44 | 100 | 217 |
| 17 | 41 | 42 | 100 | 7 |
| 18 | 42 | 43 | 100 | 16 |
| 19 | 42 | 45 | 100 | 221 |
| 20 | 20 | 4C | 100 | 86 |
| 21 | 20 | 4B | 100 | 160 |
| TOTAL FOR 100 DIA | | | | 2706 |
| TOTAL FOR 150 DIA | | | | 2 |
| TOTAL PIPING | | | | 2708 |
| MUNICIPAL LINE | | | | |
| 1 | | 1a - UGI | 100 | 129 |
| TOTAL PIPE 100 DIA | | | | 129 |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA
 SUBJECT: FLUSHING & GARDEN WATER SUPPLY DESIGN SHEET

| S. No. | Node No. | | No. of Plot | Flushing Water Requirement in KLD | Branch Water | Total KLD | Discharge per Hour considering 8 Hours Pumping | Size of Pipe Provided | Velocity | | Head Loss per 1000 m | Loss of head as per pipe length | Length of pipe (in meters) | Ground level | | Hydraulic Level | | Terminal Head |
|--------|----------|----|----------------------|-----------------------------------|--------------|-----------|--|-----------------------|------------|--------|----------------------|---------------------------------|----------------------------|--------------|----------|-----------------|----------|---------------|
| | From | To | | | | | | | In ft/sec. | In m/s | | | | Start In m | End In m | Start In m | End In m | |
| 1 | 51P | 1 | | 0.80 | 317.24 | 317.24 | 39.655 | 100 | 4.61 | 1.41 | 40 | 0.161 | 4 | 94.30 | 100.30 | 124.30 | 124.14 | 23.84 |
| 2 | 1 | 2 | | 0.80 | 317.24 | 317.24 | 39.655 | 100 | 4.61 | 1.41 | 40 | 0.242 | 6 | 100.30 | 100.30 | 124.14 | 123.90 | 23.60 |
| 3 | 2 | 3 | GREEN | 15.00 | 60.00 | 75.00 | 9.375 | 100 | 1.09 | 0.33 | 2 | 0.063 | 28 | 100.30 | 100.30 | 123.90 | 123.83 | 23.53 |
| 4 | 3 | 4 | | 20.00 | 40.00 | 60.00 | 7.500 | 100 | 0.87 | 0.27 | 1 | 0.062 | 43 | 100.30 | 100.30 | 123.83 | 123.77 | 23.47 |
| 5 | 3 | 5 | | 40.00 | 40.00 | 40.00 | 5.000 | 100 | 0.58 | 0.18 | 1 | 0.079 | 123 | 100.30 | 100.30 | 123.83 | 123.75 | 23.45 |
| 6 | 2 | 2a | 4 | 3.07 | 3.07 | 3.07 | 0.384 | 100 | 0.04 | 0.01 | 0 | 0.000 | 30 | 100.30 | 100.30 | 123.90 | 123.90 | 23.60 |
| 7 | 2 | 6 | | 0.80 | 239.16 | 299.16 | 29.896 | 100 | 3.48 | 1.06 | 23 | 0.160 | 7 | 100.30 | 100.30 | 123.90 | 123.74 | 23.44 |
| 8 | 6 | 7 | | 6.91 | 106.09 | 113.00 | 14.125 | 100 | 1.64 | 0.50 | 5 | 0.409 | 80 | 100.30 | 100.30 | 123.74 | 123.33 | 23.03 |
| 9 | 7 | 8 | | 11.52 | 93.80 | 11.52 | 1.440 | 100 | 0.17 | 0.05 | 0 | 0.006 | 113 | 100.30 | 100.30 | 123.33 | 123.32 | 23.02 |
| 10 | 7 | 9 | 1 | 0.77 | 94.57 | 94.57 | 11.821 | 100 | 1.37 | 0.42 | 4 | 0.025 | 7 | 100.30 | 100.30 | 123.33 | 123.30 | 23.00 |
| 11 | 9 | 10 | 15 | 11.52 | 11.52 | 11.52 | 1.440 | 100 | 0.17 | 0.05 | 0 | 0.006 | 113 | 100.30 | 100.30 | 123.30 | 123.30 | 23.00 |
| 12 | 9 | 11 | 5 | 3.84 | 78.44 | 82.28 | 10.285 | 100 | 1.20 | 0.36 | 3 | 0.089 | 33 | 100.30 | 100.30 | 123.30 | 123.21 | 22.91 |
| 13 | 11 | 12 | 6 | 4.61 | 4.61 | 4.61 | 0.576 | 100 | 0.07 | 0.02 | 0 | 0.000 | 46 | 100.30 | 100.30 | 123.21 | 123.21 | 22.91 |
| 14 | 11 | 13 | 1 | 0.77 | 73.06 | 73.06 | 9.228 | 100 | 1.07 | 0.33 | 2 | 0.035 | 7 | 100.30 | 100.30 | 123.21 | 123.20 | 22.90 |
| 15 | 13 | 14 | 6 | 4.61 | 4.61 | 4.61 | 0.576 | 100 | 0.07 | 0.02 | 0 | 0.000 | 51 | 100.30 | 100.30 | 123.20 | 123.20 | 22.90 |
| 16 | 13 | 15 | 5 | 3.84 | 64.61 | 68.45 | 8.526 | 100 | 1.00 | 0.30 | 2 | 0.071 | 38 | 100.30 | 100.30 | 123.20 | 123.13 | 22.83 |
| 17 | 15 | 16 | 13 Common facilities | 22.36 | 22.36 | 22.36 | 2.795 | 100 | 0.33 | 0.10 | 0 | 0.022 | 108 | 100.30 | 100.30 | 123.13 | 123.10 | 22.80 |
| 18 | 15 | 17 | | 0.80 | 42.25 | 42.25 | 5.281 | 100 | 0.61 | 0.19 | 1 | 0.005 | 7 | 100.30 | 100.30 | 123.13 | 123.12 | 22.82 |
| 19 | 17 | 18 | 12 | 9.22 | 9.22 | 9.22 | 1.152 | 100 | 0.13 | 0.04 | 0 | 0.003 | 82 | 100.30 | 100.30 | 123.12 | 123.12 | 22.82 |
| 20 | 17 | 19 | 7 | 5.38 | 27.65 | 33.03 | 4.129 | 100 | 0.48 | 0.15 | 0 | 0.031 | 70 | 100.30 | 100.30 | 123.12 | 123.09 | 22.79 |
| 21 | 19 | 20 | 18 | 13.83 | 13.83 | 13.83 | 1.728 | 100 | 0.20 | 0.06 | 0 | 0.010 | 127 | 100.30 | 100.30 | 123.09 | 123.08 | 22.78 |
| 22 | 19 | 21 | | 0.00 | 13.83 | 13.83 | 1.728 | 100 | 0.20 | 0.06 | 0 | 0.003 | 7 | 100.30 | 100.30 | 123.09 | 123.09 | 22.79 |
| 23 | 21 | 22 | 18 | 13.83 | 13.83 | 13.83 | 1.728 | 100 | 0.20 | 0.06 | 0 | 0.010 | 126 | 100.30 | 100.30 | 123.09 | 123.08 | 22.78 |
| 24 | 6 | 23 | 1 | 0.77 | 125.39 | 126.16 | 15.770 | 100 | 1.83 | 0.56 | 6 | 0.153 | 24 | 100.30 | 100.30 | 123.74 | 123.58 | 23.28 |
| 25 | 23 | 24 | | 0.00 | 95.44 | 95.44 | 11.929 | 100 | 1.39 | 0.42 | 4 | 0.033 | 9 | 100.30 | 100.30 | 123.58 | 123.55 | 23.25 |
| 26 | 24 | 25 | 27 | 20.74 | 0.00 | 20.74 | 2.593 | 100 | 0.30 | 0.09 | 0 | 0.044 | 256 | 100.30 | 100.30 | 123.55 | 123.51 | 23.21 |
| 27 | 23 | 26 | 8 | 6.15 | 23.83 | 29.96 | 3.745 | 100 | 0.44 | 0.13 | 0 | 0.015 | 41 | 100.30 | 100.30 | 123.51 | 123.49 | 23.19 |
| 28 | 24 | 27 | 12 | 9.22 | 65.48 | 74.70 | 9.337 | 100 | 1.09 | 0.33 | 2 | 0.206 | 92 | 100.30 | 100.30 | 123.55 | 123.34 | 23.04 |
| 29 | 27 | 28 | 5 | 3.84 | 3.84 | 3.84 | 0.480 | 100 | 0.06 | 0.02 | 0 | 0.000 | 47 | 100.30 | 100.30 | 123.34 | 123.34 | 23.04 |
| 30 | 27 | 29 | 1 | 0.77 | 60.87 | 61.64 | 7.705 | 100 | 0.90 | 0.27 | 2 | 0.011 | 7 | 100.30 | 100.30 | 123.34 | 123.33 | 23.03 |



| S. No. | Node No. | | No. of Plot | Flushing Water Requirement In KLD | Branch Water | Total KLD | Discharge per Hour considering 8 Hours Pumping | Size of Pipe Provided | Velocity | | Head Loss per 1000 m | Loss of head as per pipe length | Length of pipe (in meters) | Ground level | | Hydraulic Level | | Terminal Head |
|--------|----------|----|-------------|-----------------------------------|--------------|-----------|--|-----------------------|------------|--------|----------------------|---------------------------------|----------------------------|--------------|--------|-----------------|-------|---------------|
| | From | To | | | | | | | In ft/sec. | In m/s | | | | Start | End | Start | End | |
| 31 | 29 | 30 | 13 | 9.99 | | 9.99 | 1.248 | 100 | 0.15 | 0.04 | 0 | 0.004 | 100 | 100.30 | 123.33 | 123.33 | 23.03 | |
| 32 | 29 | 31 | | 0.00 | 50.88 | 50.88 | 6.360 | 100 | 0.74 | 0.23 | 1 | 0.008 | 8 | 100.30 | 123.33 | 123.33 | 23.03 | |
| 33 | 31 | 32 | 10 | 7.68 | | 7.68 | 0.960 | 100 | 0.11 | 0.03 | 0 | 0.002 | 87 | 100.30 | 123.33 | 123.32 | 23.02 | |
| 34 | 31 | 33 | | 0.00 | 43.20 | 43.20 | 5.400 | 100 | 0.63 | 0.19 | 1 | 0.030 | 40 | 100.30 | 123.33 | 123.30 | 23.00 | |
| 35 | 33 | 34 | 7 | 5.38 | | 5.38 | 0.672 | 100 | 0.08 | 0.02 | 0 | 0.001 | 68 | 100.30 | 123.30 | 123.30 | 23.00 | |
| 36 | 33 | 35 | | 0.00 | 37.82 | 37.82 | 4.728 | 100 | 0.95 | 0.17 | 1 | 0.005 | 8 | 100.30 | 123.30 | 123.29 | 22.99 | |
| 37 | 35 | 36 | 3 | 2.30 | | 2.30 | 0.288 | 100 | 0.03 | 0.01 | 0 | 0.000 | 26 | 100.30 | 123.29 | 123.29 | 22.99 | |
| 38 | 35 | 37 | 3 | 2.30 | 33.22 | 35.52 | 4.440 | 100 | 0.52 | 0.16 | 1 | 0.016 | 32 | 100.30 | 123.28 | 123.28 | 22.98 | |
| 39 | 37 | 38 | | 0.00 | 33.22 | 33.22 | 4.152 | 100 | 0.48 | 0.15 | 0 | 0.005 | 11 | 100.30 | 123.28 | 123.27 | 22.97 | |
| 40 | 38 | 39 | 7 | 5.38 | | 5.38 | 0.672 | 100 | 0.08 | 0.02 | 0 | 0.001 | 54 | 100.30 | 123.27 | 123.27 | 22.97 | |
| 41 | 38 | 40 | 7 | 5.38 | 22.46 | 27.84 | 3.480 | 100 | 0.40 | 0.12 | 0 | 0.022 | 72 | 100.30 | 123.27 | 123.25 | 22.95 | |
| 42 | 40 | 41 | 14 | 10.75 | | 10.75 | 1.344 | 100 | 0.16 | 0.05 | 0 | 0.006 | 127 | 100.30 | 123.25 | 123.24 | 22.94 | |
| 43 | 40 | 42 | 0 | 0.00 | 11.71 | 11.71 | 1.463 | 100 | 0.17 | 0.05 | 0 | 0.000 | 8 | 100.30 | 123.25 | 123.25 | 22.95 | |
| 44 | 42 | 43 | 7 | 5.38 | | 5.38 | 0.672 | 100 | 0.08 | 0.02 | 0 | 0.001 | 49 | 100.30 | 123.25 | 123.25 | 22.95 | |
| 45 | 42 | 44 | 0 | 6.33 | 0.00 | 6.33 | 0.791 | 100 | 0.09 | 0.03 | 0 | 0.000 | 23 | 100.30 | 123.25 | 123.25 | 22.95 | |
| 46 | 23 | 26 | 8 | 6.15 | 23.81 | 29.96 | 3.745 | 100 | 0.44 | 0.13 | 0 | 0.015 | 41 | 100.30 | 123.25 | 123.23 | 22.93 | |
| 47 | 26 | 45 | 4 | 3.07 | | 3.07 | 0.384 | 100 | 0.04 | 0.01 | 0 | 0.000 | 17 | 100.30 | 123.25 | 123.25 | 22.95 | |
| 31 | 26 | 46 | 27 | 20.74 | 0.00 | 20.74 | 2.593 | 100 | 0.39 | 0.09 | 0 | 0.040 | 234 | 100.30 | 123.58 | 123.54 | 23.24 | |



PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: FLUSHING & GARDEN WATER SUPPLY MATERIAL

| S. No. | Line Designation | | Size of Pipe Provided | Length of pipe |
|------------------------------|------------------|----|-----------------------|----------------|
| | | | mm Dia | |
| 1 | STP | 1 | 100 | 4 |
| 2 | 1 | 2 | 100 | 6 |
| 3 | 2 | 3 | 100 | 28 |
| 4 | 3 | 4 | 100 | 43 |
| 5 | 3 | 5 | 100 | 123 |
| 6 | 2 | 2a | 100 | 23 |
| 7 | 2 | 6 | 100 | 7 |
| 8 | 6 | 7 | 100 | 80 |
| 9 | 7 | 8 | 100 | 113 |
| 10 | 7 | 9 | 100 | 7 |
| 11 | 9 | 10 | 100 | 113 |
| 12 | 9 | 11 | 100 | 33 |
| 13 | 11 | 12 | 100 | 46 |
| 14 | 11 | 13 | 100 | 7 |
| 15 | 13 | 14 | 100 | 51 |
| 16 | 13 | 15 | 100 | 38 |
| 17 | 15 | 16 | 100 | 107 |
| 18 | 15 | 17 | 100 | 7 |
| 19 | 17 | 18 | 100 | 83 |
| 20 | 17 | 19 | 100 | 70 |
| 21 | 19 | 20 | 100 | 127 |
| 22 | 19 | 21 | 100 | 7 |
| 23 | 21 | 22 | 100 | 126 |
| 24 | 6 | 23 | 100 | 24 |
| 25 | 23 | 24 | 100 | 9 |
| 26 | 24 | 25 | 100 | 223 |
| 27 | 23 | 26 | 100 | 41 |
| 28 | 24 | 27 | 100 | 92 |
| 29 | 27 | 28 | 100 | 47 |
| 30 | 27 | 29 | 100 | 7 |
| 31 | 29 | 30 | 100 | 100 |
| 32 | 29 | 31 | 100 | 8 |
| 33 | 31 | 32 | 100 | 87 |
| 34 | 31 | 33 | 100 | 40 |
| 35 | 33 | 34 | 100 | 68 |
| 36 | 33 | 35 | 100 | 8 |
| 37 | 35 | 36 | 100 | 26 |
| 38 | 35 | 37 | 100 | 32 |
| 39 | 37 | 38 | 100 | 11 |
| 40 | 38 | 39 | 100 | 54 |
| 41 | 38 | 40 | 100 | 72 |
| 42 | 40 | 41 | 100 | 123 |
| 43 | 40 | 42 | 100 | 7 |
| 44 | 42 | 43 | 100 | 49 |
| 45 | 42 | 44 | 100 | 23 |
| 46 | 26 | 45 | 100 | 17 |
| 47 | 26 | 46 | 100 | 234 |
| TOTAL PIPE OF 100 DIA | | | | 2651 |



Sub Work No. 1
Sub Head No. 01

Water Supply
Head Works

Amount in Rs.

1. Boring and installing tube well with reverse Rotary Rig
Complete with pipe and strainer to a depth of about 120 meter in all respect
3 Nos. for For overall 15 Acre Site Area
Total -3 No. @ Rs. 10,00,000/- each. Rs.3,000,000.00
 2. Provision for rising mains, connecting tube wells with UGT Tanks including Valve & NRV
 - a) 100 mm dia - 390 m @ Rs. 1250/- Rs.487,500.00
 - b) 150 mm dia - 10 m @ Rs. 1575/- Rs.15,750.00
 3. Providing Tube well Submersible Pumps :
Capacity 15000 LPH at 88 M head ,3 Nos. @ Rs. 200,000/-each Rs.600,000.00
 4. Construction of UG Tanks 500 KL @ Rs. 3500/KL Rs.1,750,000.00
 5. Provision of Construction of Tube well Chambers of
Size 1.5x1.5x1.5 m tube well - 3 Nos @ Rs.100000 each Rs.300,000.00
 6. Provision for Carriage of material & other unforeseen items Rs.100,000.00
 7. Provision for footpath, lawn, boundary wall around tubewell &
waterworks (L.S) Rs.300,000.00
 8. Construction of boosting chamber (L.S.) Rs.500,000.00
 9. Provision for staff offices & for maintenance staff Rs.1,000,000.00
- TOTAL** **Rs.8,053,250.00**
- (C/O To Abstract of Cost for Sub work No.1)

For Tube Well Line

| S. No. | Line Designation | Size of Pipe Provided | Length of pipe(in meters) |
|--------|------------------|-----------------------|---------------------------|
| | | mm | |
| 1 | TW 1 & TW2 - UGT | 100 | 390 |



| Sub Work No. 1 Sub Head No. 02 | Water Supply Pumping Machinery | Amount in Rs. |
|---|-----------------------------------|------------------------|
| 1A. Providing and installing electricity driven Domestic Transfer pumping Set capable of delivering about 400 LPM of water against a total Head of 35 M complete with motor and other accessories including Valve(5 HP) & NRV. (4 Working + 1 Stand by) 5 Nos. @ 120000/- Each | | Rs.600,000.00 |
| 1B. Providing and installing electricity driven Flushing & Garden pumping Set capable of delivering about 300 LPM of water against a total Head of 35 M complete with motor and other accessories including Valve(4 HP) & NRV. (3 Working + 1 Stand by) 4 No. @ 100000/- Each | | Rs.400,000.00 |
| 2. Provision for making foundations and erection of Pumping Machinery: - Lump Sum | | Rs.100,000.00 |
| 3. Provision for electric service connection including electrical Fittings for tube-well and boosting chamber etc. - Lump Sum | | Rs.250,000.00 |
| 4. Provision for pipes, valves and specials inside boosting chamber. (LS) | | Rs.200,000.00 |
| 5. Provision for carriage of material | | Rs.50,000.00 |
| 6. Provision for formation of plant etc | | Rs.100,000.00 |
| 7. Provision for diesel engine generator set each for stand by arrangement for tubewell is boosting pump craft etc.(50kVA) | | Rs.500,000.00 |
| TOTAL | | Rs.2,200,000.00 |
| (C/O To Abstract of Cost for Sub work No.1) | | |



Sub-Work No. 1
Sub Head No. 03

Water Supply
Rising Main from HUDA

Amount in Rs.

- | | |
|--|---------------|
| 1. Providing , laying , jointing and testing pipe lines including Cost of excavation etc. complete in all respects. 100 mm dia. G.I. Pipe 120 m @ Rs. 1250/M- | Rs.150,000.00 |
| 2. Providing and fixing sluice valve including cost of surface box and masonry chamber etc. complete in all respects. 100 mm i/d 1 No. @ Rs. 12000/- | Rs.12,000.00 |
| 3. Providing and fixing indicating plates for sluice valve and air Valves. - 1 @ Rs. 1000/- each | Rs.1,000.00 |
| 4. Provision for carriage for materials (Lump Sum) | Rs.25,000.00 |
| 5. Making Water Supply Connection,including road cut with HUDA master line. | Rs.100,000.00 |
| 6. Provision for roads cut and make up good condition | Rs.100,000.00 |

TOTAL Rs.388,000.00

For HUDA Supply Line

| S. No. | Line Designation | Size of Pipe Provided mm | Length of pipe(in meters) |
|--------|----------------------|-----------------------------|---------------------------|
| 1 | MU Connection -- UGT | 100 | 120 |



Sub Work No. 1

**Water Supply
Water Distribution System (Domestic
And Flushing)**

Sub-Head No. 04

Amount in Rs.

| | |
|---|--------------------------------|
| 1. Providing , Laying , jointing and testing G.I pipe line including Fittings, valves, cost of excavation etc. complete in all respect. G.I Pipe 100 mm ,53257 M @ Rs.1250/- per meter G.I Pipe 150 mm ,2 M @ Rs.1575/- per meter | Rs.6,696,250.00 Rs.3,150.00 |
| 2. Providing and fixing 20 mm dia. irrigation hydrant Valve,Chamber & Cover Etc. complete in all respect. 19 Nos. @ Rs. 3500/ each | Rs.66,500 |
| 3. Provision for carriage of materials (Lump Sum) | Rs.200,000.00 |
| 4. Provision for cutting of road and making its good condition | Rs.100,000.00 |
| 5. Provision for air valve 4 No. and sluice valve complete with masonry chamber (L.S) | Rs.200,000.00 |
| 6. Providing & Fixing indicating plates for sluice valve,air valve (L.S) | Rs.20,000 |
| 7. Providing & Fixing fire hydrant complete with masonry chamber(L.S) | Rs.350,000 |
| Total | Rs.7,635,900.00 |

(C/O To Abstract of Cost for Sub work No.1)



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHRA, BARYANA

SUBJECT: SEWERAGE SYSTEM DESIGN SHEET

| S. No. | Sewer Line From To | No. of Plots | Rate of Population (PAV/ PLOT) | Total Population | Water Supply LPCD | Total Water Requirement | Sewage Discharge (LPS) | | | Average Sewage Discharge | Peak Sewage Discharge | | Size of Pipe (mm) | Velocity | | Design Discharge of Line | Length of Line (Meters) | Slope (As per Condition) | Fall in Meters | | Ground Level | | Invert Level | | Depth of MH | | Average Depth of pipe |
|--------|--------------------|--------------|--------------------------------|------------------|-------------------|-------------------------|------------------------|----------|----------|--------------------------|-----------------------|------|-------------------|----------|------|--------------------------|-------------------------|--------------------------|----------------|--------|--------------|-------|--------------|------|-------------|------|-----------------------|
| | | | | | | | Self | Branch | Total | | LPS | Cum | | Mph | ftph | | | | Start | End | Start | End | Start | End | Start | End | |
| 1 | 1 | 1 | 15.5 | 15.5 | 172.5 | 186.81 | 15.973 | 0 | 15.973 | 0.162 | 0.49 | 0.02 | 200 | 2.25 | 0.78 | 0.43 | 77 | 1.80 | 0.128 | 100.30 | 100.30 | 98.80 | 98.37 | 1.50 | 1.91 | 1.71 | |
| 2 | 2 | 4 | 15.5 | 62 | 172.5 | 80274 | 22.705 | 15.975 | 38.679 | 0.425 | 1.27 | 0.04 | 200 | 2.25 | 0.78 | 0.43 | 49 | 1.80 | 0.127 | 100.30 | 100.30 | 98.27 | 98.10 | 1.93 | 2.30 | 2.06 | |
| 3 | 3 | 4 | Commercial | 0 | 172.5 | 10200 | 14.400 | 0 | 14.400 | 0.167 | 0.50 | 0.02 | 200 | 2.25 | 0.78 | 0.43 | 11 | 1.80 | 0.126 | 100.30 | 100.30 | 98.80 | 98.69 | 1.30 | 1.81 | 1.33 | |
| 4 | 4 | 5 | 15.5 | 77.5 | 172.5 | 20591 | 15.719 | 31.076 | 46.792 | 0.775 | 2.32 | 0.08 | 200 | 2.25 | 0.78 | 0.43 | 80 | 1.80 | 0.129 | 100.30 | 100.30 | 98.80 | 98.51 | 1.91 | 1.99 | 1.78 | |
| 5 | 5 | 3 | 15.5 | 46.5 | 172.5 | 11644 | 8.733 | 8.733 | 8.733 | 0.101 | 0.30 | 0.05 | 200 | 2.25 | 0.78 | 0.43 | 41 | 1.80 | 0.129 | 100.30 | 100.30 | 98.51 | 98.17 | 1.89 | 2.23 | 2.11 | |
| 6 | 6 | 7 | 15.5 | 106.5 | 172.5 | 0 | 25.330 | 25.330 | 25.330 | 0.454 | 1.42 | 0.09 | 200 | 2.25 | 0.78 | 0.43 | 11 | 1.80 | 0.126 | 100.30 | 100.30 | 98.17 | 98.01 | 2.23 | 2.29 | 2.26 | |
| 7 | 7 | 0 | 15.5 | 0 | 172.5 | 21528 | 17.466 | 75.330 | 92.665 | 1.076 | 3.28 | 0.11 | 200 | 2.25 | 0.78 | 0.43 | 41 | 1.80 | 0.127 | 100.30 | 100.30 | 98.80 | 98.51 | 1.90 | 1.77 | 1.84 | |
| 8 | 8 | 0 | 15.5 | 0 | 172.5 | 6066 | 5.241 | 5.241 | 5.241 | 0.061 | 0.18 | 0.05 | 200 | 2.25 | 0.78 | 0.43 | 4 | 1.80 | 0.124 | 100.30 | 100.30 | 98.01 | 97.95 | 2.29 | 2.33 | 2.31 | |
| 9 | 9 | 11 | 15.5 | 166.5 | 172.5 | 13644 | 8.733 | 88.235 | 116.968 | 1.238 | 3.71 | 0.13 | 200 | 2.25 | 0.78 | 0.43 | 46 | 1.80 | 0.127 | 100.30 | 100.30 | 97.95 | 97.70 | 2.33 | 2.60 | 2.47 | |
| 10 | 10 | 11 | 15.5 | 324 | 172.5 | 26880 | 61.918 | 41.918 | 0.480 | 1.46 | 0.09 | 300 | 2.25 | 0.78 | 0.43 | 181 | 1.80 | 0.122 | 100.30 | 100.30 | 98.80 | 98.23 | 1.90 | 2.07 | 1.94 | | |
| 11 | 11 | 15 | 15.5 | 232.5 | 172.5 | 28416 | 19.232 | 1.48.083 | 1.68.108 | 1.946 | 5.84 | 0.28 | 200 | 2.25 | 0.78 | 0.43 | 94 | 1.80 | 0.122 | 100.30 | 100.30 | 98.80 | 97.55 | 1.90 | 2.12 | 1.96 | |
| 12 | 12 | 14 | 15.5 | 211.5 | 172.5 | 28080 | 96.061 | 96.061 | 1.112 | 3.34 | 0.12 | 200 | 2.25 | 0.78 | 0.43 | 213 | 1.80 | 0.124 | 100.30 | 100.30 | 98.80 | 97.55 | 1.90 | 2.15 | 2.13 | | |
| 13 | 13 | 14 | 15.5 | 40.5 | 172.5 | 6966 | 3.241 | 5.240 | 0.091 | 0.18 | 0.05 | 200 | 2.25 | 0.78 | 0.43 | 22 | 1.80 | 0.122 | 100.30 | 100.30 | 97.16 | 97.06 | 2.12 | 2.26 | 2.18 | | |
| 14 | 14 | 15 | 15.5 | 306 | 172.5 | 18550 | 13.973 | 1.01.305 | 1.15.277 | 1.324 | 4.01 | 0.14 | 200 | 2.25 | 0.78 | 0.43 | 63 | 1.80 | 0.121 | 100.30 | 100.30 | 98.80 | 98.44 | 1.90 | 1.96 | 1.88 | |
| 15 | 15 | 26 | 15.5 | 402 | 172.5 | 6966 | 5.241 | 2.43.375 | 2.48.610 | 3.340 | 10.02 | 0.38 | 200 | 2.25 | 0.78 | 0.43 | 23 | 1.80 | 0.126 | 100.30 | 100.30 | 98.80 | 98.67 | 1.90 | 1.63 | 1.26 | |
| 16 | 16 | 28 | 15.5 | 486 | 172.5 | 8085 | 62.674 | 62.674 | 0.728 | 2.18 | 0.08 | 200 | 2.25 | 0.78 | 0.43 | 135 | 1.80 | 0.124 | 100.30 | 100.30 | 98.44 | 97.74 | 1.86 | 2.26 | 2.21 | | |
| 17 | 17 | 28 | 15.5 | 413 | 172.5 | 6966 | 3.241 | 3.241 | 0.061 | 0.18 | 0.05 | 200 | 2.42 | 0.74 | 0.43 | 36 | 2.02 | 0.181 | 100.30 | 100.30 | 97.16 | 96.96 | 2.34 | 2.52 | 2.38 | | |
| 18 | 18 | 19 | 15.5 | 0 | 172.5 | 6066 | 36.000 | 1.01.074 | 1.210 | 3.44 | 0.13 | 300 | 2.25 | 0.78 | 0.43 | 25 | 1.80 | 0.126 | 100.30 | 100.30 | 98.80 | 98.84 | 1.90 | 1.66 | 1.38 | | |
| 19 | 19 | 21 | 15.5 | 175.5 | 172.5 | 80274 | 22.799 | 1.04.874 | 1.27.674 | 1.429 | 4.43 | 0.16 | 200 | 2.25 | 0.78 | 0.43 | 26 | 1.80 | 0.121 | 100.30 | 100.30 | 98.80 | 98.29 | 1.90 | 1.71 | 1.61 | |
| 20 | 20 | 21 | 15.5 | 148.5 | 172.5 | 28080 | 19.232 | 1.01.212 | 1.222 | 0.67 | 0.02 | 200 | 2.25 | 0.78 | 0.43 | 60 | 1.80 | 0.126 | 100.30 | 100.30 | 98.29 | 98.31 | 1.71 | 2.19 | 1.95 | | |
| 21 | 21 | 23 | 15.5 | 144.5 | 172.5 | 14900 | 12.226 | 1.46.491 | 1.58.717 | 1.842 | 5.52 | 0.19 | 200 | 2.25 | 0.78 | 0.43 | 52 | 1.80 | 0.129 | 100.30 | 100.30 | 98.11 | 97.82 | 1.79 | 2.46 | 2.33 | |
| 22 | 22 | 23 | 15.5 | 162 | 172.5 | 27445 | 20.054 | 20.054 | 0.243 | 0.73 | 0.03 | 200 | 2.25 | 0.78 | 0.43 | 67 | 1.80 | 0.129 | 100.30 | 100.30 | 98.80 | 98.26 | 1.90 | 1.74 | 1.62 | | |
| 23 | 23 | 25 | 15.5 | 41 | 172.5 | 13875 | 10.478 | 1.80.076 | 1.90.553 | 2.206 | 6.63 | 0.23 | 200 | 2.25 | 0.78 | 0.43 | 67 | 1.80 | 0.122 | 100.30 | 100.30 | 97.82 | 97.62 | 1.90 | 2.70 | 2.59 | |
| 24 | 24 | 25 | 15.5 | 400 | 172.5 | 6966 | 32.547 | 32.547 | 0.048 | 1.43 | 0.06 | 200 | 2.25 | 0.78 | 0.43 | 113 | 1.80 | 0.128 | 100.30 | 100.30 | 98.80 | 98.17 | 1.90 | 2.13 | 1.81 | | |
| 25 | 25 | 26 | 15.5 | 106 | 172.5 | 18550 | 13.973 | 2.42.932 | 2.56.905 | 2.914 | 8.57 | 0.31 | 200 | 2.25 | 0.78 | 0.43 | 82 | 1.80 | 0.126 | 100.30 | 100.30 | 97.82 | 97.34 | 2.70 | 2.16 | 2.03 | |
| 26 | 26 | 27(517P) | 15.5 | 0 | 172.5 | 0 | 5.42.535 | 3.43.335 | 6.914 | 18.94 | 0.66 | 300 | 2.68 | 0.87 | 0.43 | 12 | 2.68 | 0.168 | 100.30 | 100.30 | 98.80 | 98.73 | 1.90 | 1.35 | 1.32 | | |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: SEWERAGE SYSTEM SHEET

| S. No. | Sewer Line | | Size of Pipe | Length of Line |
|----------------------------------|------------|---------|--------------|----------------|
| | From | To | mm | Meters |
| 1 | 1 | 2 | 200 | 77 |
| 2 | 2 | 4 | 200 | 49 |
| 3 | 3 | 4 | 200 | 19 |
| 4 | 4 | 5 | 200 | 88 |
| 5 | 6 | 5 | 200 | 43 |
| 6 | 5 | 7 | 200 | 11 |
| 7 | 7 | 9 | 200 | 49 |
| 8 | 8 | 9 | 200 | 8 |
| 9 | 9 | 11 | 200 | 48 |
| 10 | 10 | 11 | 200 | 103 |
| 11 | 11 | 15 | 200 | 94 |
| 12 | 12 | 14 | 200 | 225 |
| 13 | 13 | 14 | 200 | 22 |
| 14 | 14 | 15 | 200 | 65 |
| 15 | 15 | 26 | 200 | 23 |
| 16 | 16 | 18 | 200 | 125 |
| 17 | 17 | 18 | 250 | 16 |
| 18 | 18 | 19 | 200 | 28 |
| 19 | 19 | 21 | 200 | 38 |
| 20 | 20 | 21 | 200 | 86 |
| 1 | 21 | 23 | 200 | 52 |
| 2 | 22 | 23 | 200 | 43 |
| 3 | 23 | 25 | 200 | 40 |
| 4 | 24 | 25 | 200 | 113 |
| 5 | 25 | 26 | 200 | 82 |
| 9 | 26 | 27(STP) | 300 | 12 |
| Total 200 Dia Pipe | | | | 1547 |
| Total 300 Dia Pipe | | | | 12 |
| Total 200 to 300 Dia Pipe | | | | 1559 |



Sub-Work No. II

SEWERAGE SCHEME

Amount in Rs.

| | |
|--|--------------------------------|
| 1. Providing, jointing, cutting and testing SW pipe class "A" and lowering into trenches including cost of Excavation, bed concrete, cost of manholes etc. complete in all respect | |
| a) SW pipe 200 to 250 mm i/d avg. depth 1.60 - 2.81 M 1547M @ Rs. 1500/M | Rs.2,320,500 |
| 2. Providing and laying R.C.C. pipe drain class NP-3 With cement joint ,Catch Basins & Road Gullies, manholes excavation etc complete in all respect. | |
| b) R.C.C pipe 250 to 300 mm i/d avg depth above 2.82 M 12 M @ Rs. 2000/M | Rs.24,000 |
| 2. Rising Main From STP To MH | |
| a)200 mm dia 110m @ Rs. 2150/m | Rs.236,500 |
| 3. STP Cap. 550 KLD upto tertiary level (L.S) | Rs.8,250,000 |
| 4. Provision for making HUDA Connection on main line (L.S) | Rs.100,000 |
| 5. Provision for watering & lighting | Rs.100,000 |
| 6. Provision for vent pipe as per | Rs.200,000 |
| 7. Provision for cutting of roads and making good condition | Rs.100,000 |
| 8. Provision for timbering & shoring (L.S) | Rs.100,000 |
| Total | Rs.11,431,000 |
| Add 3% contingencies & PH charges | Rs.342,930 |
| Total | Rs.11,773,930 |
| Add 49% Price Escalation, Departmental charges | Rs.5,769,226 |
| TOTAL | Rs.17,543,156 |
| (Cost to Final abstract of cost) | Say in lacs 175.43 |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: DRAINAGE SYSTEM DESIGN SHEET

| 5. No. | LINE NO. | | Field Area (m ²) | Self Area (Acre) | Branch Area (Acre) | Total Area (Acre) | Total Area (Hectare) | Rain Fall mm/yr | Discharge @17.36 LPS/hectare | Length in m | Pipe dia in mm | Slope 1 in | Velocity m/sec. | Cap of pipe in lbs | Fall in line m | Ground Level | | Invert Level | | Depth | | |
|--------|----------|----|------------------------------|------------------|--------------------|-------------------|----------------------|-----------------|------------------------------|-------------|----------------|------------|-----------------|--------------------|----------------|--------------|-------|--------------|------|-------|------|---------|
| | FROM | TO | | | | | | | | | | | | | | Start | End | Start | End | Start | End | Average |
| 1 | 1 | 3 | 4999.05 | 1.24 | | 1.24 | 0.50 | 6.25 | 8.68 | 126 | 400 | 500 | 0.64 | 80.75 | 0.25 | 100.30 | 99.10 | 98.85 | 1.20 | 1.45 | 1.35 | |
| 2 | 2 | 3 | 476.10 | 0.12 | | 0.12 | 0.05 | 6.25 | 0.83 | 12 | 400 | 500 | 0.64 | 80.75 | 0.02 | 100.30 | 99.10 | 99.08 | 1.20 | 1.22 | 1.21 | |
| 3 | 3 | 4 | 674.48 | 0.17 | 1.35 | 1.52 | 0.61 | 6.25 | 10.66 | 17 | 400 | 500 | 0.64 | 80.75 | 0.03 | 100.30 | 98.85 | 98.81 | 1.45 | 1.49 | 1.47 | |
| 4 | 4 | 5 | 872.85 | 0.22 | 1.52 | 1.74 | 0.70 | 6.25 | 12.19 | 22 | 400 | 500 | 0.64 | 80.75 | 0.04 | 100.30 | 98.83 | 98.77 | 1.49 | 1.53 | 1.51 | |
| 5 | 5 | 6 | 1666.35 | 0.41 | 1.74 | 2.15 | 0.87 | 6.25 | 15.06 | 42 | 400 | 500 | 0.64 | 80.75 | 0.08 | 100.30 | 98.77 | 98.69 | 1.53 | 1.61 | 1.57 | |
| 6 | 6 | 7 | 2578.88 | 0.64 | 0.64 | 0.64 | 0.26 | 6.25 | 4.48 | 65 | 400 | 500 | 0.64 | 80.75 | 0.13 | 100.30 | 98.70 | 98.67 | 1.20 | 1.33 | 1.27 | |
| 7 | 7 | 8 | 593.13 | 0.15 | 0.64 | 0.78 | 0.32 | 6.25 | 5.51 | 15 | 400 | 500 | 0.64 | 80.75 | 0.03 | 100.30 | 98.67 | 98.94 | 1.53 | 1.36 | 1.35 | |
| 8 | 8 | 9 | 1190.25 | 0.29 | 2.93 | 3.23 | 1.31 | 6.25 | 22.66 | 39 | 400 | 500 | 0.64 | 80.75 | 0.06 | 100.30 | 98.69 | 98.63 | 1.61 | 1.67 | 1.64 | |
| 9 | 9 | 11 | 158.70 | 0.04 | 3.23 | 3.27 | 1.32 | 6.25 | 22.94 | 4 | 400 | 500 | 0.64 | 80.75 | 0.01 | 100.30 | 98.63 | 98.62 | 1.67 | 1.68 | 1.68 | |
| 10 | 10 | 11 | 1547.33 | 0.36 | 0.36 | 0.36 | 0.15 | 6.25 | 2.69 | 39 | 400 | 500 | 0.64 | 80.75 | 0.08 | 100.30 | 99.10 | 99.02 | 1.20 | 1.28 | 1.24 | |
| 11 | 11 | 12 | 1507.65 | 0.37 | 3.65 | 4.02 | 1.63 | 6.25 | 28.24 | 38 | 400 | 500 | 0.64 | 80.75 | 0.08 | 100.30 | 98.62 | 98.54 | 1.68 | 1.76 | 1.72 | |
| 12 | 12 | 14 | 277.73 | 0.07 | 4.02 | 4.09 | 1.65 | 6.25 | 28.72 | 7 | 400 | 500 | 0.64 | 80.75 | 0.01 | 100.30 | 98.54 | 98.53 | 1.78 | 1.77 | 1.76 | |
| 13 | 13 | 14 | 4046.85 | 1.00 | 1.00 | 1.00 | 0.40 | 6.25 | 7.03 | 102 | 400 | 500 | 0.64 | 80.75 | 0.20 | 100.30 | 99.10 | 98.90 | 1.20 | 1.40 | 1.30 | |
| 14 | 14 | 15 | 1716.03 | 0.42 | 5.09 | 5.51 | 2.33 | 6.25 | 38.71 | 43 | 400 | 500 | 0.64 | 80.75 | 0.09 | 100.30 | 98.53 | 98.44 | 1.77 | 1.86 | 1.83 | |
| 15 | 15 | 17 | 2380.50 | 0.59 | 5.51 | 6.10 | 2.67 | 6.25 | 42.84 | 60 | 400 | 500 | 0.64 | 80.75 | 0.12 | 100.30 | 98.44 | 98.32 | 1.86 | 1.98 | 1.92 | |
| 16 | 16 | 17 | 952.20 | 0.24 | 0.24 | 0.24 | 0.10 | 6.25 | 1.65 | 24 | 400 | 500 | 0.64 | 80.75 | 0.05 | 100.30 | 99.10 | 99.05 | 1.20 | 1.25 | 1.22 | |
| 17 | 17 | 19 | 3729.45 | 0.92 | 6.33 | 7.26 | 2.94 | 6.25 | 30.97 | 94 | 400 | 500 | 0.64 | 80.75 | 0.19 | 100.30 | 98.32 | 98.13 | 1.98 | 2.17 | 2.07 | |
| 18 | 18 | 20 | 961.88 | 0.25 | 0.25 | 0.25 | 0.10 | 6.25 | 1.72 | 25 | 400 | 500 | 0.64 | 80.75 | 0.05 | 100.30 | 99.10 | 99.05 | 1.20 | 1.25 | 1.23 | |
| 19 | 19 | 20 | 1983.75 | 0.49 | 0.40 | 0.89 | 0.36 | 6.25 | 6.25 | 50 | 400 | 500 | 0.64 | 80.75 | 0.10 | 100.30 | 99.10 | 99.00 | 1.20 | 1.30 | 1.25 | |
| 20 | 20 | 24 | 2023.43 | 0.50 | 1.14 | 1.64 | 0.66 | 6.25 | 11.49 | 51 | 400 | 500 | 0.64 | 80.75 | 0.10 | 100.30 | 99.10 | 99.00 | 1.20 | 1.40 | 1.35 | |
| 21 | 21 | 22 | 3420.18 | 0.60 | 0.60 | 0.60 | 0.24 | 6.25 | 4.20 | 61 | 400 | 500 | 0.64 | 80.75 | 0.12 | 100.30 | 99.10 | 98.98 | 1.20 | 1.32 | 1.26 | |
| 22 | 22 | 19 | 3915.30 | 0.75 | 0.00 | 0.75 | 0.30 | 6.25 | 5.23 | 76 | 400 | 500 | 0.64 | 80.75 | 0.15 | 100.30 | 99.10 | 98.95 | 1.20 | 1.35 | 1.28 | |
| 23 | 23 | 24 | 2539.20 | 0.63 | 0.60 | 1.23 | 0.50 | 6.25 | 6.61 | 64 | 400 | 500 | 0.64 | 80.75 | 0.13 | 100.30 | 98.95 | 98.82 | 1.53 | 1.48 | 1.42 | |
| 24 | 24 | 25 | 595.13 | 0.15 | 2.86 | 3.01 | 1.22 | 6.25 | 21.13 | 13 | 400 | 500 | 0.64 | 80.75 | 0.05 | 100.30 | 98.82 | 98.79 | 1.48 | 1.51 | 1.50 | |
| 25 | 25 | 26 | 1110.90 | 0.27 | 3.01 | 3.28 | 1.33 | 6.25 | 23.06 | 28 | 400 | 500 | 0.64 | 80.75 | 0.06 | 100.30 | 99.10 | 99.04 | 1.20 | 1.26 | 1.23 | |
| 26 | 26 | 27 | 952.20 | 0.24 | 6.00 | 6.24 | 0.10 | 6.25 | 1.65 | 24 | 400 | 500 | 0.64 | 80.75 | 0.05 | 100.30 | 98.79 | 98.74 | 1.51 | 1.56 | 1.53 | |
| 27 | 27 | 28 | 1289.60 | 0.31 | 3.52 | 3.83 | 1.55 | 6.25 | 26.92 | 32 | 400 | 500 | 0.64 | 80.75 | 0.06 | 100.30 | 98.74 | 98.68 | 1.56 | 1.62 | 1.59 | |
| 28 | 28 | 29 | 436.43 | 0.11 | 3.83 | 3.94 | 1.39 | 6.25 | 27.67 | 11 | 400 | 500 | 0.64 | 80.75 | 0.02 | 100.30 | 99.10 | 99.10 | 1.20 | 2.17 | 1.69 | |
| 29 | 29 | 30 | 3570.75 | 0.88 | 11.20 | 12.68 | 4.89 | 6.25 | 84.84 | 90 | 400 | 500 | 0.64 | 80.75 | 0.18 | 100.30 | 98.13 | 97.95 | 2.17 | 2.55 | 2.26 | |
| 30 | 30 | 31 | 366.75 | 0.10 | 12.08 | 12.18 | 4.93 | 6.25 | 85.53 | 10 | 450 | 500 | 0.69 | 110.54 | 0.02 | 100.30 | 97.95 | 97.95 | 2.55 | 2.57 | 2.56 | |
| 31 | 31 | 32 | 793.50 | 0.20 | 0.00 | 0.20 | 0.08 | 6.25 | 1.38 | 20 | 400 | 600 | 0.59 | 73.71 | 0.03 | 100.30 | 99.10 | 99.07 | 1.20 | 1.25 | 1.22 | |
| 32 | 32 | 33 | 8490.46 | 2.10 | 0.20 | 2.29 | 0.93 | 6.25 | 16.12 | 214 | 400 | 600 | 0.59 | 73.71 | 0.36 | 100.30 | 99.10 | 99.07 | 1.20 | 1.59 | 1.41 | |
| 33 | 33 | 34 | 396.75 | 0.10 | 2.29 | 2.39 | 0.97 | 6.25 | 16.81 | 10 | 450 | 600 | 0.65 | 100.91 | 0.02 | 100.30 | 98.21 | 98.69 | 1.59 | 1.61 | 1.60 | |
| 34 | 34 | 35 | | | | | | | | | | | | | | | | | | | | |



PROJECT: PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: DRAINAGE SYSTEM MATERIAL SHEET

| S. No. | Line No. | | Pipe dia. | Length |
|--------------------|----------|--------------|-----------|--------|
| | From | To | mm | Meters |
| 1 | 1 | 3 | 400 | 126 |
| 2 | 2 | 3 | 400 | 12 |
| 3 | 3 | 4 | 400 | 17 |
| 4 | 4 | 5 | 400 | 22 |
| 5 | 5 | 8 | 400 | 42 |
| 6 | 6 | 7 | 400 | 65 |
| 7 | 7 | 8 | 400 | 15 |
| 8 | 8 | 9 | 400 | 30 |
| 9 | 9 | 11 | 400 | 4 |
| 10 | 10 | 11 | 400 | 39 |
| 11 | 11 | 12 | 400 | 38 |
| 12 | 12 | 14 | 400 | 7 |
| 13 | 13 | 14 | 400 | 102 |
| 14 | 14 | 15 | 400 | 43 |
| 15 | 15 | 17 | 400 | 60 |
| 16 | 16 | 17 | 400 | 24 |
| 17 | 17 | 29 | 400 | 94 |
| 18 | 18 | 20 | 400 | 25 |
| 19 | 19 | 20 | 400 | 50 |
| 20 | 20 | 24 | 400 | 51 |
| 21 | 21 | 23 | 400 | 8 |
| 22 | 23 | 24 | 400 | 64 |
| 23 | 19 | 22 | 400 | 76 |
| 24 | 22 | 21 | 400 | 61 |
| 25 | 24 | 25 | 400 | 15 |
| 26 | 25 | 26 | 400 | 28 |
| 27 | 27 | 26 | 400 | 24 |
| 28 | 26 | 28 | 400 | 32 |
| 29 | 28 | 29 | 400 | 11 |
| 30 | 29 | 30 | 400 | 90 |
| 31 | 30 | 31(DISPOSAL) | 450 | 10 |
| 32 | 32 | 33 | 400 | 20 |
| 33 | 33 | 34 | 400 | 214 |
| 34 | 34 | 35(DISPOSAL) | 450 | 10 |
| Total 400 Dia Pipe | | | | 1509 |
| Total 450 Dia Pipe | | | | 20 |
| SAY | | | | 1530 |



Sub-Work No. III

STORM WATER SCHEME

Amount in Rs.

| | |
|---|----------------------|
| 1. Providing and laying R.C.C. pipe drain class NP-2 With cement joint, Catch Basins & Road Gullies, manholes excavation etc complete in all respect. | |
| a) 400 mm dia. 1509 M @ Rs. 2000/m | Rs.3,018,000 |
| 450 mm dia. 20 M @ Rs. 2500/m | Rs.50,000 |
| b). Providing Rain Harvesting arrangements 13 Nos @ Rs 150,000 | Rs.1,950,000 |
| 3. Provision for Carriage of Material (L.S) | Rs.200,000 |
| 4. Provision for watering & timbering and unforeseen (L.S) | Rs.100,000 |
| 5. Provision for connection with HUDA line | Rs.50,000 |
| 6. Provision for Road gullies and cement (L.S) | Rs.500,000 |
| 7. Provision for watering & lighting | Rs.100,000 |
| 8. Provision for temporary disposal arrangements till HUDA services are provided. | Rs.550,000 |
| Total | <u>Rs.6,518,000</u> |
| Add 3% for contingencies and PH charges | Rs.195,540 |
| Total | <u>Rs.6,713,540</u> |
| Add 49% Departmental charges | Rs.3,289,635 |
| TOTAL (Cost to Final abstract of cost) | <u>Rs.10,003,175</u> |
| Say in lacs | 100.03 |



| PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA | | | | | |
|---|---|-------|------------|---------------|----------------------|
| SUBJECT: ROAD WORKS | | | | | |
| Sub Work No. IV | | | Road Works | | |
| S. No. | Description | Unit | Qty | Rate (in Rs.) | Amount (in Rs.) |
| 1 | Provision for leveling & earth filling as per site conditions | Acres | 15.0 | 150,000.0 | 2,250,000.00 |
| 2 | 20 mm thick ORISS | Sqm | 9,180.0 | 1,200.0 | 11,016,000.00 |
| 3 | Provision for Kerbs & channels of CC 1:2, 5:5 on both side of roads complete in all respect | Metre | 1,836.0 | 600.0 | 1,101,600.00 |
| 4 | Provision for pavement in shopping area i.e. 50% of area 2427.30 sqm /2 | sqm. | 1,213.7 | 600.0 | 728,190.00 |
| 5 | Provision for traffic light control | LS | | | 200,000.00 |
| 6 | Provision for carriage of materials. | LS | | | 100,000.00 |
| 7 | Provision for guide map, plot indicator, and other unfrozen item | LS | | | 300,000.00 |
| | Sub Total | | | | 15,693,790.00 |
| | Add 3% contingencies & PH charges | | | | 470,873.70 |
| | Sub Total | | | | 16,166,663.70 |
| | Add 49% deplt., price escalation, unfrozen and admion charges | | | | 7,921,665.21 |
| | Total | | | | 24,088,328.91 |
| | Say Rs in Lakhs (C/O to Final abstract of cost) | | | | 240.88 |



**PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA,
HARYANA**

| S. NO. | ROAD FROM | ROAD TO | LENGTH IN M. |
|--------------|-----------|---------|--------------|
| 1 | 1 | 2A | 130 |
| 2 | 2 | 3 | 56 |
| 3 | 3 | 3A | 44 |
| 4 | 4 | 3A | 87 |
| 5 | 3A | 5A | 45 |
| 6 | 5 | 5A | 50 |
| 7 | 5A | 5B | 39 |
| 8 | 6 | 5B | 111 |
| 9 | 5B | 7 | 86 |
| 10 | 7 | 7B | 24 |
| 11 | 7B | 7A | 42 |
| 12 | 8 | 7A | 21 |
| 13 | 7A | 9 | 236 |
| 14 | 7B | 10A | 99 |
| 15 | 10A | 11A | 48 |
| 16 | 10 | 10A | 105 |
| 17 | 9 | 10 | 53 |
| 18 | 9 | 13 | 25 |
| 19 | 10 | 12 | 71 |
| 20 | 12 | 11 | 77 |
| 21 | 12 | 14A | 91 |
| 22 | 14A | 14 | 30 |
| 23 | 14A | 15A | 58 |
| 24 | 15 | 15A | 70 |
| 25 | 15A | 16 | 138 |
| TOTAL | | | 1836 |

METALED WIDTH OF ROAD
TOTAL AREA OF ROAD

5 M
9180



PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: STREET LIGHTING

Sub Work No. V

| S.No. | Description | UM | Qty. | Rate | Amount |
|-------|---|-------|-------|--------|-------------------|
| 1 | Provision for street lighting on roads as per standard specification of HVPN with CFL | | | | |
| | 150 acres @ Rs. 2.50 Lakhs/Acres | acres | 15.00 | 250000 | 3750000.00 |
| | Sub Total | | | | 3750000.00 |
| | Add 3% contingencies & PH charges | | | | 112500.00 |
| | Total | | | | 3862500.00 |
| | Add 49% deplt., price escalation, unfrozen and admion charges | | | | 1892625.00 |
| | SUB-TOTAL | | | | 5755125.00 |
| | Say Rs in Lakhs (C/O to Final abstract of cost) | | | | 57.55 |



PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: PLANTATION & ROAD SIDE TREES

Sub Work No. VI

Plantation & Road Side trees

| S.No. | Description | Unit | Qty | Rate (in Rs.) | Amount (in Rs.) |
|-------|--|----------------|--------|------------------|---------------------|
| 1 | Development of organised lawn green area. | Acre | 1.25 | 150,000.00 | 187,500.00 |
| a | Trenching of ordinary soil upto depth of 60 cm i/c removal & stacking of serviceable material & disposing by spreading and levelling within a lead of 50 M and making up the trench area for proper levels by filling with earth or earth mixed with manure before and after flooding trench with water i/c cost of imported earth and manure. | | | | |
| b | Rough dressing of turfed area. | | | | |
| c | Grassing with "DOOB GRASS" i/c watering and maintenance of lawns for 30 days till the grass forms a thick lawn, free from weeds and fit for mowing in row 7.5 cm part in either direction. | | | | |
| 2 | Providing and planting trees along boundary @ 12 m interval | Nos. | 500.00 | 1,300.00 | 650,000.00 |
| | Cost Detail | | | | |
| | Excavation | 60.00 | | | |
| | Manure | 90.00 | | | |
| | Tree Plant | 150.00 | | | |
| | Tree Guard | 1000.00 | | | |
| | Total | 1300.00 | | | |
| | Sub Total | | | | 837,500.00 |
| | Add 3% contingencies & PH charges | | | | 25,125.00 |
| | | | | | 862,625.00 |
| | Add 49% deplt., price escalation, unfrozen and admion charges | | | | 422,686.25 |
| | | | | | |
| | Total | | | | 1,285,311.25 |
| | Say Rs in Lakhs (C/O to Final abstract of cost) | | | | 12.85 |



PLOTTED DEVELOPMENT AT SECTOR-5, SOHNA, HARYANA

SUBJECT: SERVICES & RESURFACING OF ROADS

Services & Resurfacing of Roads

| S.No. | Description | Unit | Qty | Rate (in Rs.) | Amount (in Rs.) |
|-------|--|------|---------|------------------|--------------------|
| 1 | Provision of MTC charges for W/S, SWD & Sewarage, Roads, Street Lighting, Horticulture etc. | | | | |
| a. | Complete in all aspect, including operational and establishment charges as per HUDA norms for 10 years completion. | Acre | 15.0 | 750,000.0 | 11,250,000.00 |
| 2 | Provision of resurfacing of roads MTC one layer of 100 mm thick WBM compacted to 75 mm thick with 25mm thick premix carpet with seal coat. | | | | |
| a | Resurfacing of road after 5 years of MTC . | Sqm | 9,180.0 | 600.0 | 5,508,000.00 |
| b | Resurfacing of road after 10 years of MTC. | Sqm | 9,180.0 | 750.0 | 6,885,000.00 |
| | Sub Total | | | | 23,643,000.00 |
| | Add 3% contingencies & PH charges | | | | 709,290.00 |
| | Sub Total | | | | 24,352,290.00 |
| | Add 49% deplt., price escalation, unfrozen and admion charges | | | | 11,932,622.10 |
| | Total | | | | 36,284,912.10 |
| | Say Rs in Lakhs (C/O to Final abstract of cost) | | | | 362.85 |



To be read with layout No. 01 of B19 Form B19/19

The site layout is shown in red in the plan. The site is bounded by the following roads: 24M WIDE ROAD to the north, 24M WIDE ROAD to the east, 24M WIDE ROAD to the south, and MALINI to the west. The site is divided into several plots, each identified by a number (e.g., 01, 02, 03, etc.). A 'COMMERCIAL BUSINESS AREA' is shown in the south-eastern corner, and a 'SPACE FOR COMMUNITY SITE (1.20 ACRES (0.09M))' is shown in the south-western corner.

1. That the proposed Plan shall be used in conjunction with the plan submitted to the Engineer in accordance with Rule 14 and the zoning agreement. That the developer of the site shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

2. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

3. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

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10. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

11. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

12. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

13. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

14. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

15. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

16. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

17. That the developer shall be responsible for the approval of the plan by the Engineer and the approval of the plan by the Engineer and the approval of the plan by the Engineer.

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APPROVED (Signature)

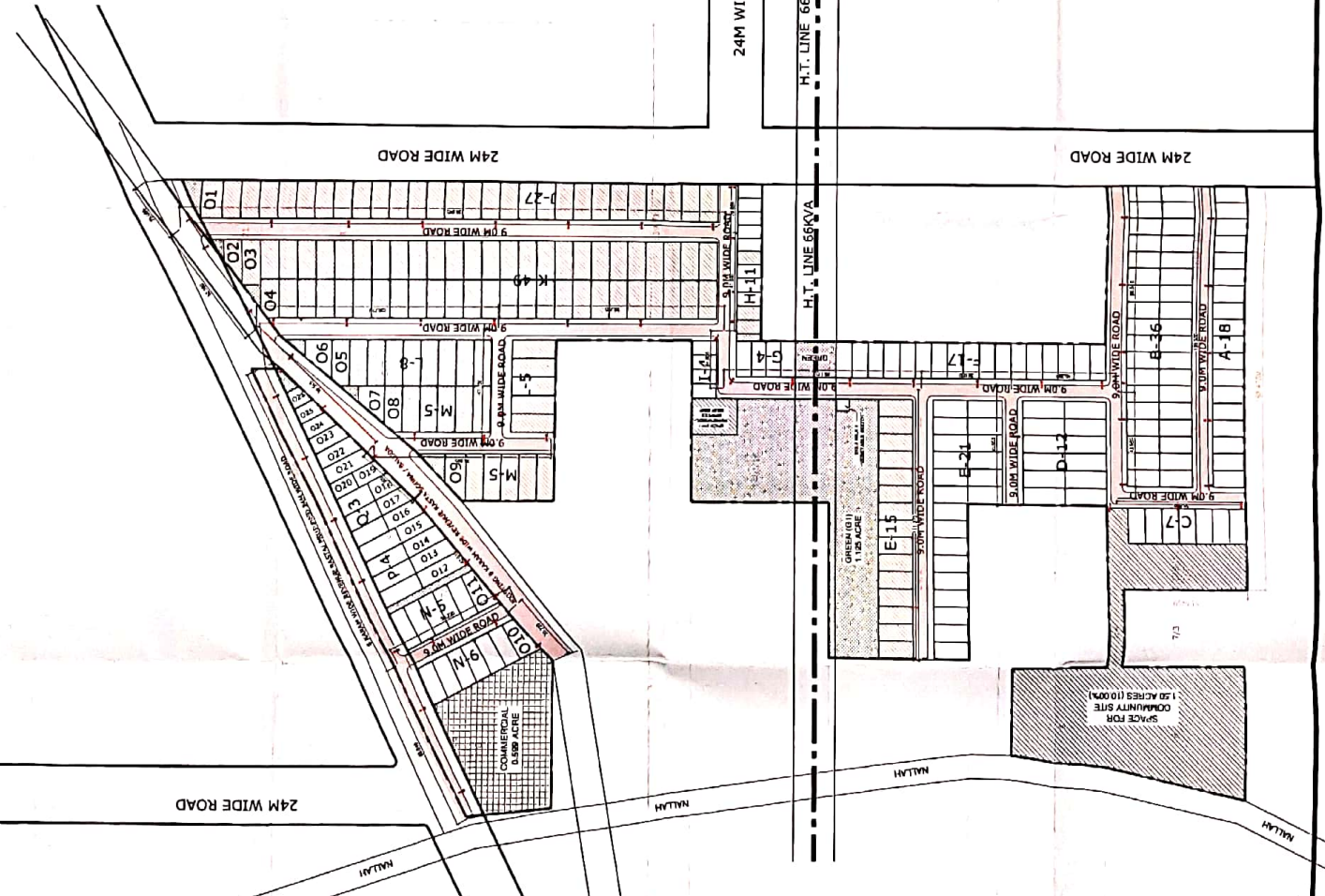
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| Plot No. | Area (Sq. M) | Area (Acres) | Volume (Cu. M) | Volume (Cu. Yds) | Weight (Tons) |
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| 02 | 1000 | 0.247 | 1000 | 127 | 127 |
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| 95 | 1000 | 0.247 | 1000 | 127 | 127 |
| 96 | 1000 | 0.247 | 1000 | 127 | 127 |
| 97 | 1000 | 0.247 | 1000 | 127 | 127 |
| 98 | 1000 | 0.247 | 1000 | 127 | 127 |
| 99 | 1000 | 0.247 | 1000 | 127 | 127 |
| 100 | 1000 | 0.247 | 1000 | 127 | 127 |

LAYOUT PLAN OF PLOTTED COLONY UNDER DEEN DYAL JAN AWAS YOJNA OF LAND MEASURING 15,000 ACRE IN SECTOR - 5, SOJINA, FOR REGIONAL CONSTRUCTION PVT. LTD.

DATE: 25-02-2019

ARCHITECT'S SIGN: *(Signature)*

OWNER/VAUTH. SIGN: *(Signature)*

For Regional Construction Pvt. Ltd.



LAYOUT PLAN

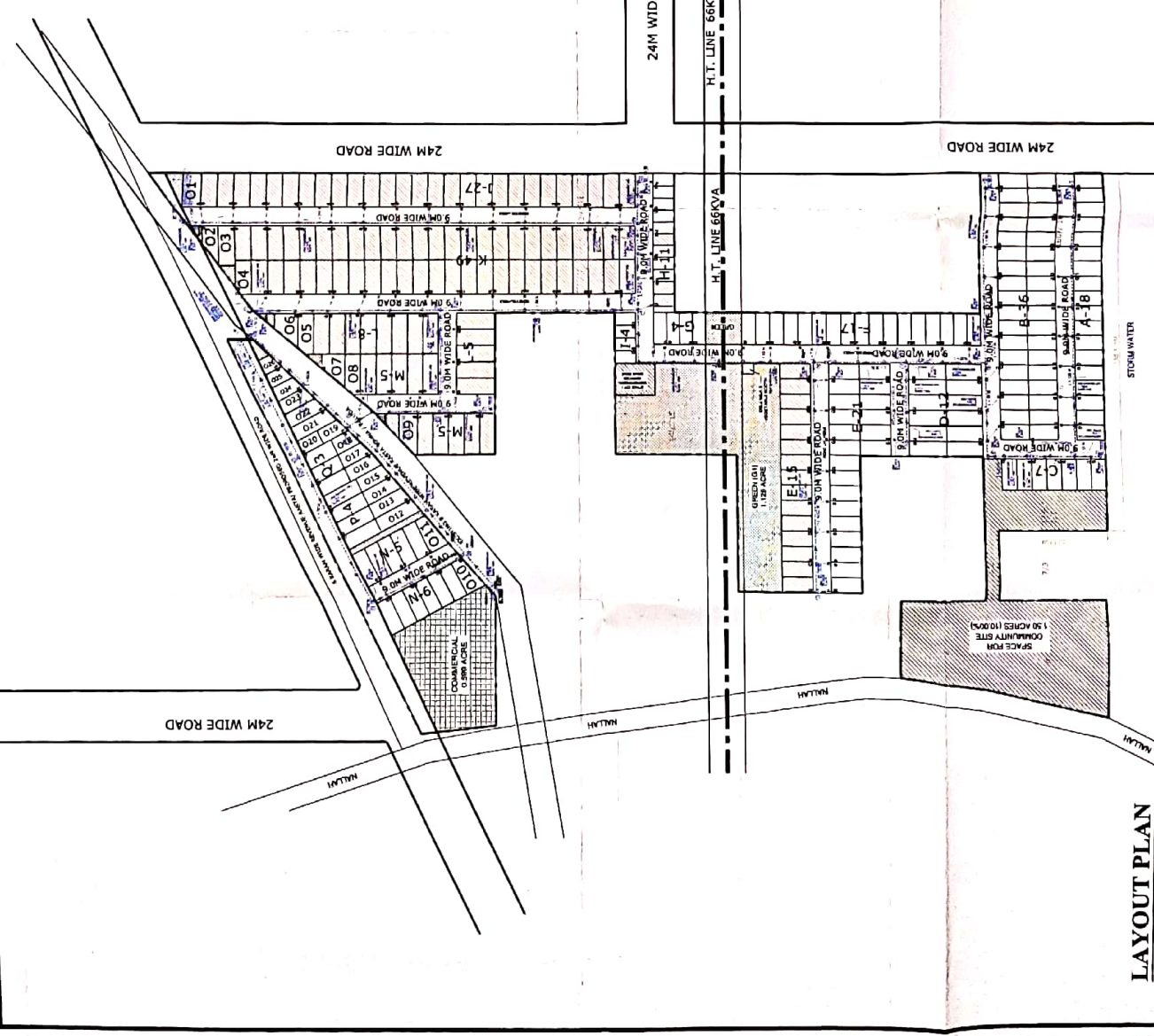
ROAD LAYOUT 05

The first condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The second condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The third condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The fourth condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The fifth condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The sixth condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The seventh condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The eighth condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The ninth condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations. The tenth condition is that the proposed development should be in accordance with the provisions of the relevant laws and regulations.

RAJESH KISHORE (S) (REGISTERED ARCHITECT) (R.A. NO. 12345) (MUMBAI) (INDIA)
 RAJESH KISHORE (S) (REGISTERED ARCHITECT) (R.A. NO. 12345) (MUMBAI) (INDIA)
 RAJESH KISHORE (S) (REGISTERED ARCHITECT) (R.A. NO. 12345) (MUMBAI) (INDIA)

| Sl. No. | Particulars | Area (Sq. Mts.) | Volume (Cu. Mts.) | Remarks |
|---------|----------------------------------|-----------------|-------------------|---------|
| 1 | Plot Area | 10000 | | |
| 2 | Area reserved for roads | 1000 | | |
| 3 | Area reserved for open spaces | 500 | | |
| 4 | Area reserved for other purposes | 200 | | |
| 5 | Area available for development | 8300 | | |
| 6 | Area covered by buildings | 1000 | | |
| 7 | Area covered by roads | 1000 | | |
| 8 | Area covered by open spaces | 500 | | |
| 9 | Area covered by other purposes | 200 | | |
| 10 | Area available for development | 8300 | | |

LAYOUT PLAN OF PLOTTED COLONY UNDER D.Y.A.L. JAN AWAS YOJNA OF LAND MEASURING 15.000 ACRE IN SECTOR - 5, SOHNA, FOR REGIONAL CONSTRUCTION PVT. LTD.
 SCALE: 1:750
 DATE: 25-02-2019
 ARCHITECTS SIGN: [Signature]
 OWNER/AUTHOR SIGN: [Signature]
 For Regional Construction Pvt. Ltd.
 Auth: [Signature]



As per the layout plan, the area measuring 13.12 acres (131,200 sq. ft.) is proposed to be developed for residential purposes. The layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana. The layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana. The layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana.

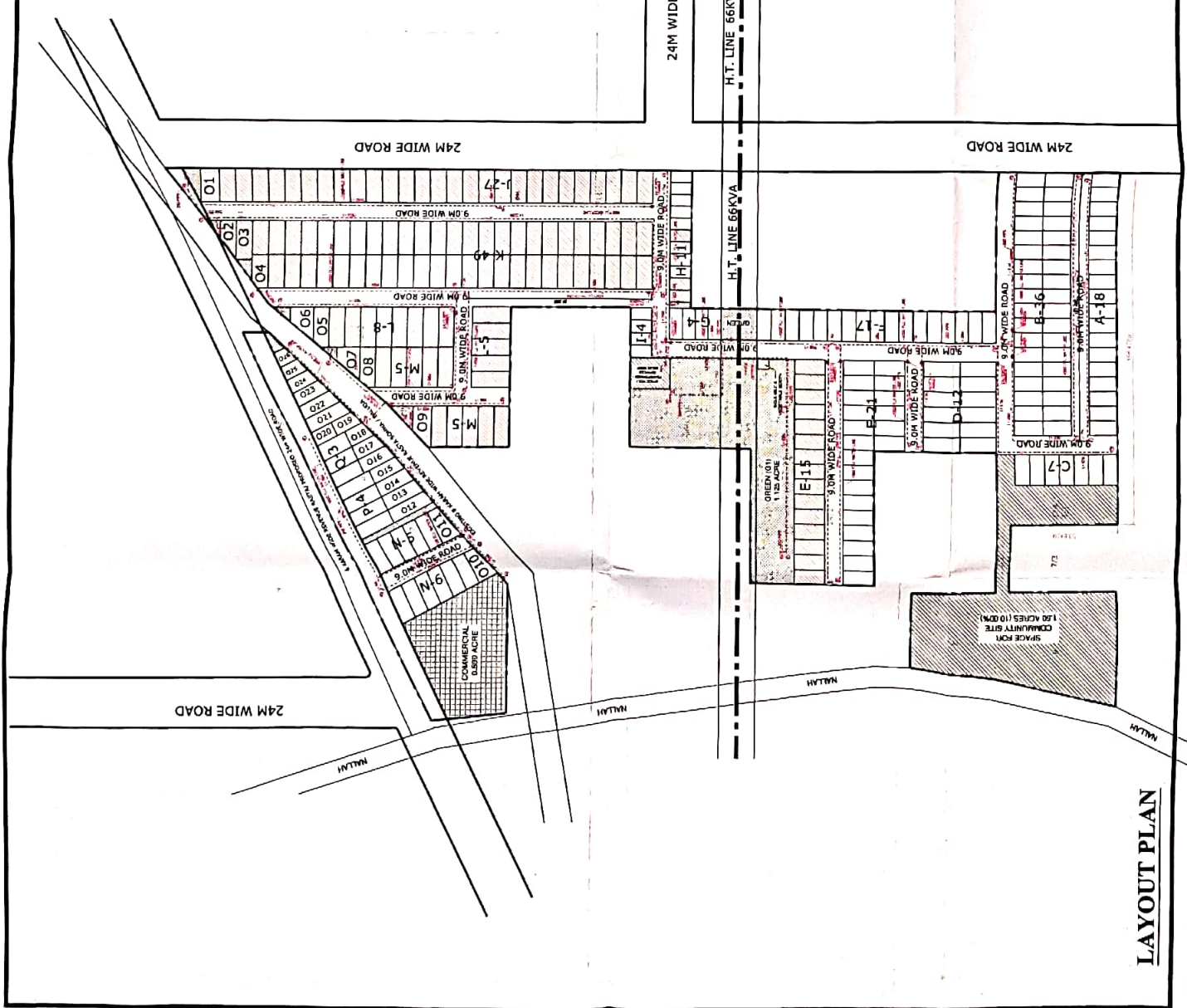
1. That the proposed layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana.
2. That the proposed layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana.
3. That the proposed layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana.
4. That the proposed layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana.
5. That the proposed layout plan is prepared in accordance with the provisions of the Regional Comprehension P.L. Ltd. in Sector - 5, Sohna, District - Gurgaon, Haryana.

Prepared by: *[Signature]*
 Checked by: *[Signature]*
 Date: 24/11/2019

| TOTAL AREA OF THE SITE | | 13.12 ACRES | 131,200 SQ. FT. |
|--|-------------|-----------------|-----------------|
| PLANNED AREA | 13.12 ACRES | 131,200 SQ. FT. | |
| PLANNED AREA LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 11.12 ACRES | 111,200 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 9.12 ACRES | 91,200 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 7.12 ACRES | 71,200 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 5.12 ACRES | 51,200 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 3.12 ACRES | 31,200 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1.12 ACRES | 11,200 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT LESS: | | | |
| ROADS | 1.00 ACRES | 10,000 SQ. FT. | |
| GREEN BELT | 0.50 ACRES | 5,000 SQ. FT. | |
| UTILITIES | 0.50 ACRES | 5,000 SQ. FT. | |
| PLANNED AREA AVAILABLE FOR DEVELOPMENT | 0.12 ACRES | 1,200 SQ. FT. | |

| NO. | DESCRIPTION | AREA (SQ. FT.) | AREA (ACRES) |
|-----|--|----------------|--------------|
| 1 | ROADS | 10,000 | 0.23 |
| 2 | GREEN BELT | 5,000 | 0.11 |
| 3 | UTILITIES | 5,000 | 0.11 |
| 4 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 111,200 | 2.57 |
| 5 | ROADS | 10,000 | 0.23 |
| 6 | GREEN BELT | 5,000 | 0.11 |
| 7 | UTILITIES | 5,000 | 0.11 |
| 8 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 91,200 | 2.10 |
| 9 | ROADS | 10,000 | 0.23 |
| 10 | GREEN BELT | 5,000 | 0.11 |
| 11 | UTILITIES | 5,000 | 0.11 |
| 12 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 71,200 | 1.63 |
| 13 | ROADS | 10,000 | 0.23 |
| 14 | GREEN BELT | 5,000 | 0.11 |
| 15 | UTILITIES | 5,000 | 0.11 |
| 16 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 51,200 | 1.18 |
| 17 | ROADS | 10,000 | 0.23 |
| 18 | GREEN BELT | 5,000 | 0.11 |
| 19 | UTILITIES | 5,000 | 0.11 |
| 20 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 31,200 | 0.72 |
| 21 | ROADS | 10,000 | 0.23 |
| 22 | GREEN BELT | 5,000 | 0.11 |
| 23 | UTILITIES | 5,000 | 0.11 |
| 24 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 11,200 | 0.26 |
| 25 | ROADS | 10,000 | 0.23 |
| 26 | GREEN BELT | 5,000 | 0.11 |
| 27 | UTILITIES | 5,000 | 0.11 |
| 28 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 29 | ROADS | 10,000 | 0.23 |
| 30 | GREEN BELT | 5,000 | 0.11 |
| 31 | UTILITIES | 5,000 | 0.11 |
| 32 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 11,200 | 0.26 |
| 33 | ROADS | 10,000 | 0.23 |
| 34 | GREEN BELT | 5,000 | 0.11 |
| 35 | UTILITIES | 5,000 | 0.11 |
| 36 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 37 | ROADS | 10,000 | 0.23 |
| 38 | GREEN BELT | 5,000 | 0.11 |
| 39 | UTILITIES | 5,000 | 0.11 |
| 40 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 41 | ROADS | 10,000 | 0.23 |
| 42 | GREEN BELT | 5,000 | 0.11 |
| 43 | UTILITIES | 5,000 | 0.11 |
| 44 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 45 | ROADS | 10,000 | 0.23 |
| 46 | GREEN BELT | 5,000 | 0.11 |
| 47 | UTILITIES | 5,000 | 0.11 |
| 48 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 49 | ROADS | 10,000 | 0.23 |
| 50 | GREEN BELT | 5,000 | 0.11 |
| 51 | UTILITIES | 5,000 | 0.11 |
| 52 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 53 | ROADS | 10,000 | 0.23 |
| 54 | GREEN BELT | 5,000 | 0.11 |
| 55 | UTILITIES | 5,000 | 0.11 |
| 56 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |
| 57 | ROADS | 10,000 | 0.23 |
| 58 | GREEN BELT | 5,000 | 0.11 |
| 59 | UTILITIES | 5,000 | 0.11 |
| 60 | PLANNED AREA AVAILABLE FOR DEVELOPMENT | 1,200 | 0.03 |

DATE: 25-10-2019
 ARCHITECT'S SIGN: *[Signature]*
 OWNER/AUTH. SIGN: *[Signature]*
 For Regional Comprehension P.L. Ltd.
 PVT. LTD.



LAYOUT PLAN

To be read with license No. 151 of 1978, State of MADHRA.
 This layout plan for an area measuring 1.10 acre (including 0.11 acre reserved for the use of the State Government) is submitted for approval to the Regional Construction Authority, Bangalore, by the undersigned applicant, Mr. Janawas Yojna of Land Measuring and Agency Sector - 5, Soorana, for regional construction.
 The following conditions shall be observed in the execution of the layout plan:
 1. The proposed layout shall be in conformity with the rules and regulations, rules and bye-laws of the Regional Construction Authority, Bangalore.
 2. The proposed layout shall be in conformity with the provisions of the National Buildings Construction Code, Bangalore.
 3. The proposed layout shall be in conformity with the provisions of the Karnataka Land Revenue Act, 1957.
 4. The proposed layout shall be in conformity with the provisions of the Karnataka Land Revenue Act, 1957.
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1. That the proposed layout shall be in conformity with the provisions of the National Buildings Construction Code, Bangalore.
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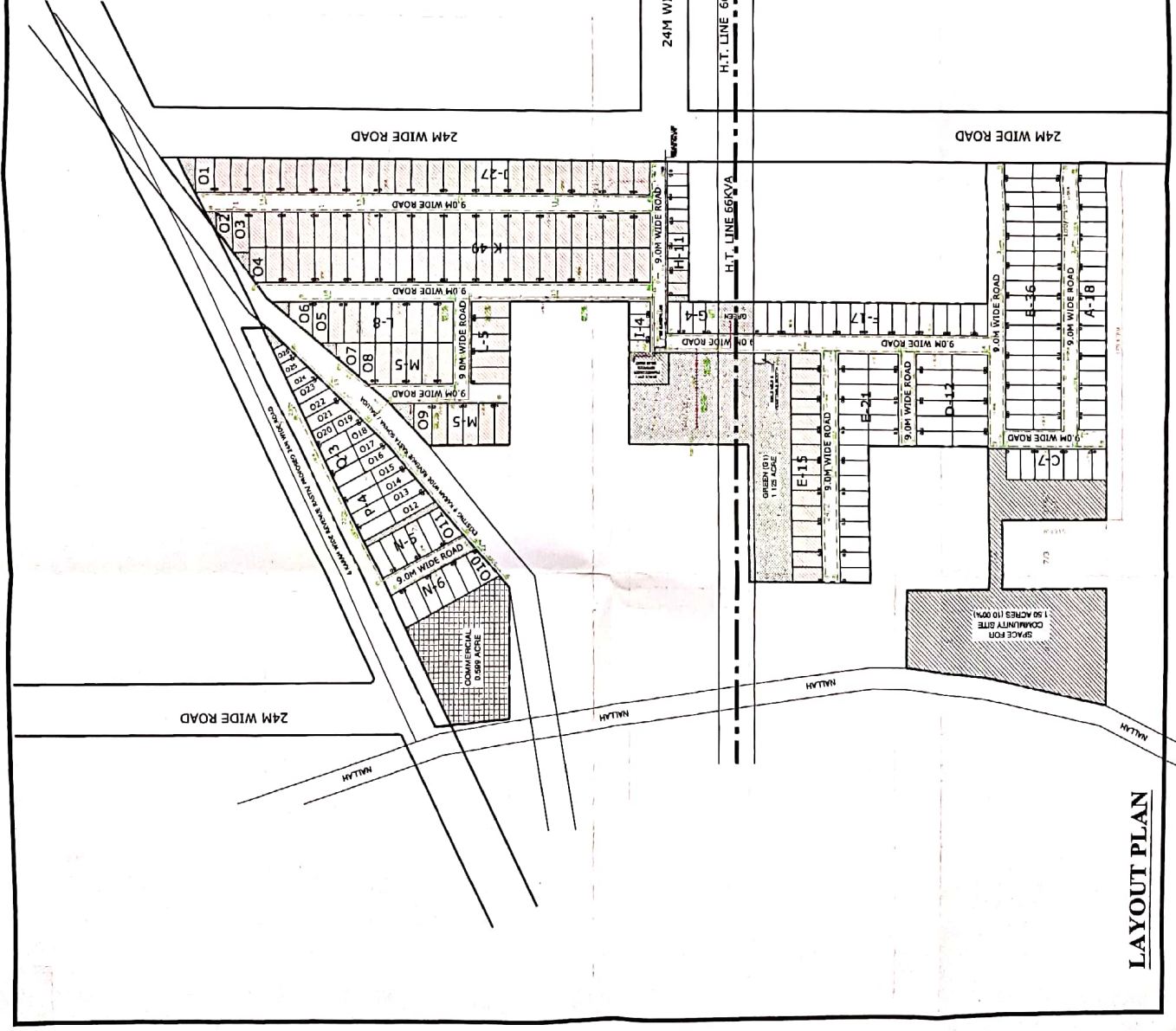
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| REMARKS ON THE CALCULATION | | | | |
|----------------------------|---|--------------|----------|---------|
| Sl. No. | Particulars | Area (Acres) | Per Cent | Remarks |
| 1 | Area under water supply | 1.132 | 100.00 | |
| 2 | Area reserved for public use | 0.11 | 9.71 | |
| 3 | Area reserved for religious, educational, public health, fire, and other public use | 0.00 | 0.00 | |
| 4 | Area reserved for agriculture | 0.00 | 0.00 | |
| 5 | Area reserved for other public use | 0.00 | 0.00 | |
| 6 | Total area reserved | 0.11 | 9.71 | |
| 7 | Total area available for water supply | 1.021 | 90.29 | |
| 8 | Area under water supply | 1.132 | 100.00 | |
| 9 | Total area available for water supply | 1.021 | 90.29 | |
| 10 | Area under water supply | 1.132 | 100.00 | |
| 11 | Total area available for water supply | 1.021 | 90.29 | |
| 12 | Area under water supply | 1.132 | 100.00 | |
| 13 | Total area available for water supply | 1.021 | 90.29 | |
| 14 | Area under water supply | 1.132 | 100.00 | |
| 15 | Total area available for water supply | 1.021 | 90.29 | |
| 16 | Area under water supply | 1.132 | 100.00 | |
| 17 | Total area available for water supply | 1.021 | 90.29 | |
| 18 | Area under water supply | 1.132 | 100.00 | |
| 19 | Total area available for water supply | 1.021 | 90.29 | |
| 20 | Area under water supply | 1.132 | 100.00 | |
| 21 | Total area available for water supply | 1.021 | 90.29 | |
| 22 | Area under water supply | 1.132 | 100.00 | |
| 23 | Total area available for water supply | 1.021 | 90.29 | |
| 24 | Area under water supply | 1.132 | 100.00 | |
| 25 | Total area available for water supply | 1.021 | 90.29 | |
| 26 | Area under water supply | 1.132 | 100.00 | |
| 27 | Total area available for water supply | 1.021 | 90.29 | |
| 28 | Area under water supply | 1.132 | 100.00 | |
| 29 | Total area available for water supply | 1.021 | 90.29 | |
| 30 | Area under water supply | 1.132 | 100.00 | |
| 31 | Total area available for water supply | 1.021 | 90.29 | |
| 32 | Area under water supply | 1.132 | 100.00 | |
| 33 | Total area available for water supply | 1.021 | 90.29 | |
| 34 | Area under water supply | 1.132 | 100.00 | |
| 35 | Total area available for water supply | 1.021 | 90.29 | |
| 36 | Area under water supply | 1.132 | 100.00 | |
| 37 | Total area available for water supply | 1.021 | 90.29 | |
| 38 | Area under water supply | 1.132 | 100.00 | |
| 39 | Total area available for water supply | 1.021 | 90.29 | |
| 40 | Area under water supply | 1.132 | 100.00 | |
| 41 | Total area available for water supply | 1.021 | 90.29 | |
| 42 | Area under water supply | 1.132 | 100.00 | |
| 43 | Total area available for water supply | 1.021 | 90.29 | |
| 44 | Area under water supply | 1.132 | 100.00 | |
| 45 | Total area available for water supply | 1.021 | 90.29 | |
| 46 | Area under water supply | 1.132 | 100.00 | |
| 47 | Total area available for water supply | 1.021 | 90.29 | |
| 48 | Area under water supply | 1.132 | 100.00 | |
| 49 | Total area available for water supply | 1.021 | 90.29 | |
| 50 | Area under water supply | 1.132 | 100.00 | |

LAYOUT PLAN OF FLOTTED COLONY UNDER DEEN DIAL
 JAN AWAS YOJNA OF LAND MEASURING AND AGENCY
 SECTOR - 5, SOORANA, FOR REGIONAL CONSTRUCTION
 PVT. LTD.
 SCALE: 1:1750
 DATE: 25-02-2019
 ARCHITECT'S SIGN:
 OWNER/AUTH. SIGN:
 For Regional Construction P. Ltd.

To be read with Reference No. 55 of 2019 dated 24/11/19

This plan is submitted for an area measuring 15.0000 hectares, (150,000 Sqm) bounded as shown in the attached map. The area is bounded by National Road No. 10 on the north, National Road No. 10 on the east, National Road No. 10 on the south and National Road No. 10 on the west.

1. This layout plan shall be read in conjunction with the clauses appearing on the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

2. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

3. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

4. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

5. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

6. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

7. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

8. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

9. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

10. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

11. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

12. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

13. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

14. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

15. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

16. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

17. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

18. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

19. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

20. The area shown on this layout plan is to be used for residential purposes as per the approved enclosure under reference No. 55 of 2019 dated 24/11/19.

AREA STATEMENT

| | |
|--------------------------|---------|
| TOTAL AREA OF THE SITE | 15.0000 |
| AREA UNDER CONSTRUCTION | 0.0000 |
| AREA UNDER RESERVE | 0.0000 |
| AREA UNDER ROAD | 0.0000 |
| AREA UNDER OPEN SPACE | 0.0000 |
| AREA UNDER PLANTATION | 0.0000 |
| AREA UNDER WATER | 0.0000 |
| AREA UNDER OTHER USES | 0.0000 |
| TOTAL AREA UNDER RESERVE | 0.0000 |
| AREA UNDER ROAD | 0.0000 |
| AREA UNDER OPEN SPACE | 0.0000 |
| AREA UNDER PLANTATION | 0.0000 |
| AREA UNDER WATER | 0.0000 |
| AREA UNDER OTHER USES | 0.0000 |

GENERAL CALCULATION

| | |
|---------------------------------------|---------|
| TOTAL PLOTTED AREA | 15.0000 |
| TOTAL PLOTTED AREA UNDER CONSTRUCTION | 0.0000 |
| TOTAL PLOTTED AREA UNDER RESERVE | 0.0000 |
| TOTAL PLOTTED AREA UNDER ROAD | 0.0000 |
| TOTAL PLOTTED AREA UNDER OPEN SPACE | 0.0000 |
| TOTAL PLOTTED AREA UNDER PLANTATION | 0.0000 |
| TOTAL PLOTTED AREA UNDER WATER | 0.0000 |
| TOTAL PLOTTED AREA UNDER OTHER USES | 0.0000 |
| TOTAL PLOTTED AREA UNDER RESERVE | 0.0000 |
| TOTAL PLOTTED AREA UNDER ROAD | 0.0000 |
| TOTAL PLOTTED AREA UNDER OPEN SPACE | 0.0000 |
| TOTAL PLOTTED AREA UNDER PLANTATION | 0.0000 |
| TOTAL PLOTTED AREA UNDER WATER | 0.0000 |
| TOTAL PLOTTED AREA UNDER OTHER USES | 0.0000 |

AREA FOR PREPARATION OF COMMUNITY DEVELOPMENT

| | |
|-----------------------------|--------|
| TOTAL AREA UNDER RESERVE | 0.0000 |
| TOTAL AREA UNDER ROAD | 0.0000 |
| TOTAL AREA UNDER OPEN SPACE | 0.0000 |
| TOTAL AREA UNDER PLANTATION | 0.0000 |
| TOTAL AREA UNDER WATER | 0.0000 |
| TOTAL AREA UNDER OTHER USES | 0.0000 |
| TOTAL AREA UNDER RESERVE | 0.0000 |
| TOTAL AREA UNDER ROAD | 0.0000 |
| TOTAL AREA UNDER OPEN SPACE | 0.0000 |
| TOTAL AREA UNDER PLANTATION | 0.0000 |
| TOTAL AREA UNDER WATER | 0.0000 |
| TOTAL AREA UNDER OTHER USES | 0.0000 |

AREA STATEMENT

| Sl. No. | Area | Description | Area (Hectares) | Area (Sqm) |
|---------|------|-------------|-----------------|------------|
| 1 | 0.1 | Area 1 | 0.1 | 1000 |
| 2 | 0.2 | Area 2 | 0.2 | 2000 |
| 3 | 0.3 | Area 3 | 0.3 | 3000 |
| 4 | 0.4 | Area 4 | 0.4 | 4000 |
| 5 | 0.5 | Area 5 | 0.5 | 5000 |
| 6 | 0.6 | Area 6 | 0.6 | 6000 |
| 7 | 0.7 | Area 7 | 0.7 | 7000 |
| 8 | 0.8 | Area 8 | 0.8 | 8000 |
| 9 | 0.9 | Area 9 | 0.9 | 9000 |
| 10 | 1.0 | Area 10 | 1.0 | 10000 |
| 11 | 1.1 | Area 11 | 1.1 | 11000 |
| 12 | 1.2 | Area 12 | 1.2 | 12000 |
| 13 | 1.3 | Area 13 | 1.3 | 13000 |
| 14 | 1.4 | Area 14 | 1.4 | 14000 |
| 15 | 1.5 | Area 15 | 1.5 | 15000 |
| 16 | 1.6 | Area 16 | 1.6 | 16000 |
| 17 | 1.7 | Area 17 | 1.7 | 17000 |
| 18 | 1.8 | Area 18 | 1.8 | 18000 |
| 19 | 1.9 | Area 19 | 1.9 | 19000 |
| 20 | 2.0 | Area 20 | 2.0 | 20000 |
| 21 | 2.1 | Area 21 | 2.1 | 21000 |
| 22 | 2.2 | Area 22 | 2.2 | 22000 |
| 23 | 2.3 | Area 23 | 2.3 | 23000 |
| 24 | 2.4 | Area 24 | 2.4 | 24000 |
| 25 | 2.5 | Area 25 | 2.5 | 25000 |
| 26 | 2.6 | Area 26 | 2.6 | 26000 |
| 27 | 2.7 | Area 27 | 2.7 | 27000 |
| 28 | 2.8 | Area 28 | 2.8 | 28000 |
| 29 | 2.9 | Area 29 | 2.9 | 29000 |
| 30 | 3.0 | Area 30 | 3.0 | 30000 |
| 31 | 3.1 | Area 31 | 3.1 | 31000 |
| 32 | 3.2 | Area 32 | 3.2 | 32000 |
| 33 | 3.3 | Area 33 | 3.3 | 33000 |
| 34 | 3.4 | Area 34 | 3.4 | 34000 |
| 35 | 3.5 | Area 35 | 3.5 | 35000 |
| 36 | 3.6 | Area 36 | 3.6 | 36000 |
| 37 | 3.7 | Area 37 | 3.7 | 37000 |
| 38 | 3.8 | Area 38 | 3.8 | 38000 |
| 39 | 3.9 | Area 39 | 3.9 | 39000 |
| 40 | 4.0 | Area 40 | 4.0 | 40000 |
| 41 | 4.1 | Area 41 | 4.1 | 41000 |
| 42 | 4.2 | Area 42 | 4.2 | 42000 |
| 43 | 4.3 | Area 43 | 4.3 | 43000 |
| 44 | 4.4 | Area 44 | 4.4 | 44000 |
| 45 | 4.5 | Area 45 | 4.5 | 45000 |
| 46 | 4.6 | Area 46 | 4.6 | 46000 |
| 47 | 4.7 | Area 47 | 4.7 | 47000 |
| 48 | 4.8 | Area 48 | 4.8 | 48000 |
| 49 | 4.9 | Area 49 | 4.9 | 49000 |
| 50 | 5.0 | Area 50 | 5.0 | 50000 |

AREA STATEMENT

| | |
|-----------------------------|---------|
| TOTAL AREA OF THE SITE | 15.0000 |
| AREA UNDER CONSTRUCTION | 0.0000 |
| AREA UNDER RESERVE | 0.0000 |
| AREA UNDER ROAD | 0.0000 |
| AREA UNDER OPEN SPACE | 0.0000 |
| AREA UNDER PLANTATION | 0.0000 |
| AREA UNDER WATER | 0.0000 |
| AREA UNDER OTHER USES | 0.0000 |
| TOTAL AREA UNDER RESERVE | 0.0000 |
| TOTAL AREA UNDER ROAD | 0.0000 |
| TOTAL AREA UNDER OPEN SPACE | 0.0000 |
| TOTAL AREA UNDER PLANTATION | 0.0000 |
| TOTAL AREA UNDER WATER | 0.0000 |
| TOTAL AREA UNDER OTHER USES | 0.0000 |

LAYOUT PLAN OF PLOTTED COLONY UNDER DEEN DYAL JAN AWAS YOJNA OF LAND MEASURING 15.0000 ACRE IN SECTOR - 5, SOHNA, FOR REGIONAL CONSTRUCTION PVT. LTD.

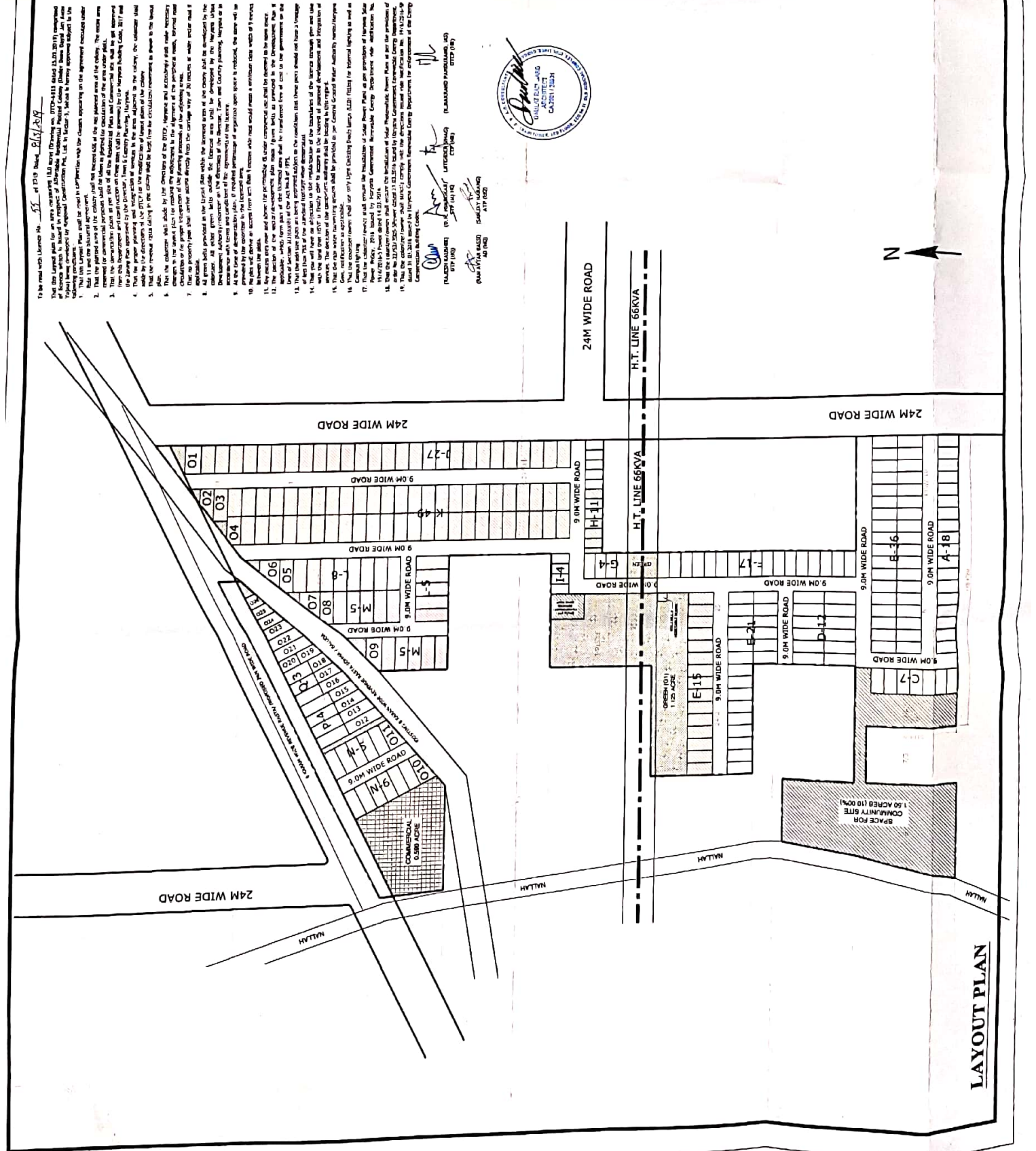
SCALE: 1:750

DATE: 25-02-2019

OWNERSHIP SIGN: [Signature]

ARCHITECTS SIGN: [Signature]

For Regional Construction Pvt. Ltd.



PLANNED SIGNATURES

[Signatures and stamps of project members]

SOHNA

FINAL DEVELOPMENT PLAN-2031AD
FINAL DEVELOPMENT PLAN FOR CONTROLLED AREAS
 DENOTED ON DRG.NO.-DTP(G) 2017/2011 DATED 05.07.2011
 UNDER SECTION 5(7) OF ACT NO. 41 OF 1963

LEGEND-

- DISTRICT BOUNDARY
- CONTROLLED AREA BOUNDARY
- DEULACHANDKANDARY
- EXTENDED M.C. BOUNDARY
- VILLAGE BOUNDARY
- WATER BOUNDARY
- WATER BOUNDARY
- WATER BODY
- BRIDGE
- DRAINAGE (P/H) - SECTOR NO.
- GROUND WATER RECHARGE ZONE
- 100 RESIDENTIAL
- 200 COMMERCIAL
- 300 INDUSTRIAL
- 400 TRANSPORT AND COMMUNICATION
- 500 PUBLIC UTILITIES
- 600 PUBLIC AND SEMI PUBLIC USE
- 700 OPEN SPACE
- 800 AGRICULTURAL ZONE
- 900 FOREST LAND
- 1000 NATURAL CONSERVATION ZONE

| CLASSIFICATION | LAND RESERVATION FOR MAJOR ROADS |
|----------------|--|
| 100 | ON EITHER SIDE OF ROAD WITHIN 10 METERS FROM GREEN BELT |
| 150 | ON EITHER SIDE OF ROAD WITHIN 15 METERS FROM GREEN BELT |
| 200 | ON EITHER SIDE OF ROAD WITHIN 20 METERS FROM GREEN BELT |
| 300 | ON EITHER SIDE OF ROAD WITHIN 30 METERS FROM GREEN BELT |
| 400 | ON EITHER SIDE OF ROAD WITHIN 40 METERS FROM GREEN BELT |
| 500 | ON EITHER SIDE OF ROAD WITHIN 50 METERS FROM GREEN BELT |
| 600 | ON EITHER SIDE OF ROAD WITHIN 60 METERS FROM GREEN BELT |
| 700 | ON EITHER SIDE OF ROAD WITHIN 70 METERS FROM GREEN BELT |
| 800 | ON EITHER SIDE OF ROAD WITHIN 80 METERS FROM GREEN BELT |
| 900 | ON EITHER SIDE OF ROAD WITHIN 90 METERS FROM GREEN BELT |
| 1000 | ON EITHER SIDE OF ROAD WITHIN 100 METERS FROM GREEN BELT |



DRAWING NO DTP(G) 2103/2012 DATED 09.11.2012

| | |
|----------------------------------|--|
| DRAWN BY TRACER | CHECKED BY PLANNING ASSTT (H/REGULS BRD) |
| ASST. TOWN PLANNER GROUP | TOWN PLANNER GROUP |
| SENIOR TOWN PLANNER GROUP | CHIEF CO-ORDINATOR PLANNING/CI/HARYANA |
| TOWN PLANNER GROUP | DIRECTOR, TOWN PLANNING, HARYANA |

