

**DDJAY PLOTTING IN SECTOR – 2 & 3, VILLAGE  
NARHERA, PATAUDI, DISTT GURUGRAM, HARYANA.  
TO BE DEVELOPED BY M/S VK AND SONS BUILDWELL  
PVT LTD,**

**EXTERNAL SERVICE ESTIMATE**

**ARCHITECT**



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Architecture Interior Planning Vastu

VK & Sons Buildwell Pvt. Ltd.  
Vijendra Pal Singh  
Authorised Signatory

## PROJECT

**Affordable Plotted Colony Under Deen Dayal Jan Awas Yojna-2016 (Licence No. 134 of 2025 dated 07/05/2025 area measuring 8.3500 Acres at Sector – 2 & 3, Village Narhera, Pataudi, Distt. Gurugram, Haryana being developed by M/s VK and Sons Buildwell Pvt Ltd.**

## SUBJECTS

PROJECT REPORT / ESTIMATES FOR PROVIDING EXTERNAL SERVICES (WATER SUPPLY, FIRE, SEWERAGE & STORM WATER DRAINAGE, GARDEN HYDRANT & STREET LIGHTING)

**Pataudi** is a town, a tehsil and one of the 4 sub-divisions of Gurugram district, in the Indian state of Haryana, within the boundaries of the National Capital Region of India. It is located 28 km (17.4 mi) southwest of Gurugram city.

The small princely state Pataudi State was formed in 1804 by East India Company with 40 villages including Pataudi village (as it was then) as reward to Faiz Talab Khan a Pashtun of the Barech tribe for aiding the Company against the Maratha Empire during the Second Anglo-Maratha War and the English made Faiz Talab Khan Nawab of Pataudi. It was subsumed into Union of India in 1947.

As of 2001 India census, Pataudi had a population of 16,064. Males constitute 53% of the population and females 47%. Pataudi has an average literacy rate of 57%, lower than the national average of 59.5%: male literacy is 65%, and female literacy is 48%. In Pataudi, 17% of the population is under 6 years of age. Their main occupation is farming. Rao Kanwar Singh Yadav (father of Krishan Lal Yadav and Ram Avtar Yadav) the famous freedom fighter of Quni Daultabad village is also from Pataudi.

## **Water Supply**

### **1. Source**

The source of water supply in this area is tube well as underground water is fit for human consumption, moreover, the water is available at reasonable depth, and the average yield of Tube wells, with approximate 60 to 80-meter depth will be about 15 KL per hour. 2 No. Tube wells are required to meet with the daily requirement of water till to city supply made available.

### **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 2 Nos. tube wells and further tube wells will be drilled as the demand develops till the scheme is handed over the department.

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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 15000 Liters per hour. It has been proposed to install pumping set as described with standby of equal capacity.

4. **Under Ground Storage**

Underground tank 60% storage of one day storage 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 HSVP 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 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 HSVP water main on sector road to water works have also been designed and provision for D.I. 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 80 % of the domestic water supply shall find its way into the proposed sewer. All the SW /DWC 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/DWC 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/DWC pipe drains on the road widths 9.0 M. to lay underground drains. The intensity of rain fall has been taken as ¼th inch per hour. The internal storm water drains will be jointed into external storm water drainage to be laid by HSVP 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.



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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's 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 HSVP 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. 776.41 lakhs** including 3% contingencies and 49% departmental charges, unfrozen, price escalation and admin charges.

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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD

**SUBJECT: FINAL ABSTRACT OF COST**

|                  |  | Amount in Rs.<br>Lakhs |
|------------------|--|------------------------|
| SUB WORK NO. I   | WATER SUPPLY SCHEME  | 179.90                 |
| SUB WORK NO. II  | SEWERAGE SCHEME  | 126.31                 |
| SUB WORK NO. III | STORM WATER DRAINAGE   | 93.23                  |
| SUB WORK NO. IV  | ROADS & FOOT PATHS   | 147.02                 |
| SUB WORK NO. V   | STREET LIGHTING  | 32.04                  |
| SUB WORK NO. VI  | HORTICULTURE (PLANTATION & ROAD SIDE TREES)  | 4.22                   |
| SUB WORK NO. VII | MTC CHARGES INCL RESURFACING OF ROADS AFTER<br>1st 5 YEARS AND 2nd YEAR OF MTC AS/HSVP | 193.68                 |
|                  | <b>TOTAL</b>   | <b>776.41</b>          |

Cost Per Acre = 776.41 Lakh / 8.35 acres = 92.98 Lakh per gross acre.

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| SUB WORK No. 1 (Abstract of Cost) |                 | Water Supply & Fire Fighting                    |                       |
|-----------------------------------|-----------------|---|-----------------------|
| 1                                 | Sub Head No. 01 | Head Works                                      | Rs.60,65,600          |
| 2                                 | Sub Head No. 02 | Pumping Machinery                               | Rs.23,50,000          |
| 3                                 | Sub Head No. 03 | Rising Main                                     | Rs.5,15,200           |
| 4                                 | Sub Head No. 04 | Distribution System                             | Rs.27,91,400          |
|                                   |                 | <b>TOTAL</b>                                    | <b>Rs.1,17,22,200</b> |
|                                   |                 | Add 3% contingencies & PH Charges               | Rs.3,51,666.00        |
|                                   |                 | <b>TOTAL</b>                                    | <b>Rs.1,20,73,866</b> |
|                                   |                 | Add 49% Departmental charges + Price escalation | Rs.59,16,194          |
|                                   |                 | <b>TOTAL</b>                                    | <b>Rs.1,79,90,060</b> |
|                                   |                 | Say in lacs                                     | 179.90                |



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| Sub Work No. 1<br>Sub Head No. 01  | Water Supply<br>Head Works | Amount in Rs.       |
|--|----------------------------|---------------------|
| 1. Boring and installing tube well with reverse Rotary Rig<br>Complete with pipe and strainer to a depth of about 120 meter in all respect<br>Total -2 No. @ Rs. 10,00,000/- each. |                            | Rs.20,00,000        |
| 2. Provision for rising mains, connecting tube wells with UGT Tanks including Valve & NRV  |                            |                     |
| a) 80 mm dia - 110 m @ Rs. 1120/-  |                            | Rs.1,23,200         |
| b) 100 mm dia -10 m @ Rs. 1460/-   |                            | Rs.20,400           |
| 3. Providing Tube well Submersible Pumps :<br>Capacity 15000 LPH at 78 M head , 2 Nos. @ Rs. 200,000/-each   |                            | Rs.4,00,000         |
| 4. Construction of UG Tanks 260 KL(including fire watr tank)+100kl flushing water tank=360kl @ Rs. 5200/KL   |                            | Rs.18,72,000        |
| 5. Provision of Construction of Tube well Chambers of<br>Size 1.5X1.5X1.5 m tube well - 2 Nos @ Rs.100000 each   |                            | Rs.2,00,000         |
| 6. Provision for Carriage of material & other unforeseen items   |                            | Rs.1,00,000         |
| 7. Provision for footpath, lawn, boundary wall around tubewell & waterworks (L.S)  |                            | Rs.4,00,000         |
| 8. Construction of boosting chamber (L.S.)   |                            | Rs.2,00,000         |
| 9. Provision for staff offices & for maintenance staff   |                            | Rs.7,50,000         |
| <b>TOTAL</b>   |                            | <b>Rs.60,65,600</b> |
| (C/O To Abstract of Cost for Sub work No.1)  |                            |                     |



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| Sub Work No. 1<br>Sub Head No. 02  | Water Supply<br>Pumping Machinery | Amount in Rs.       |
|--|-----------------------------------|---------------------|
| 1A. Providing and installing electricity driven Domestic Transfer pumping<br>Set capable of delivering about 350 LPM of water against a total<br>Head of 45 M complete with motor and other accessories including Valve (6.0HP)<br>& NRV. 3 (2+1) Nos. @ 120000/- Each |                                   | Rs.3,60,000         |
| 1B. Providing and installing electricity driven Flushing & Garden pumping<br>Set capable of delivering about 350 LPM of water against a total<br>Head of 45 M complete with motor and other accessories including Valve (6 HP)<br>& NRV. 2(1+1) Nos. @ 120000/- Each   |                                   | Rs.2,40,000         |
| 2. Provision for making foundations and erection of Pumping Machinery:<br>- Lump Sum   |                                   | Rs.2,00,000         |
| 3. Provision for electric service connection including electrical<br>Fittings etc.<br>- Lump Sum   |                                   | Rs.2,50,000         |
| 4. Provision for pipes, valves and specials inside boosting chamber. (L.S)   |                                   | Rs.4,00,000         |
| 5. Provision for carriage of material  |                                   | Rs.1,00,000         |
| 6. Provision for chlorination plant etc  |                                   | Rs.1,00,000         |
| 7. Provision for diesel engine generator set each for stand by arrangement for<br>tubewell is boosting pump craft etc.(50kVA)  |                                   | Rs.7,00,000         |
| <b>TOTAL</b>   |                                   | <b>Rs.23,50,000</b> |

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



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Sub-Work No. 1  
Sub Head No. 03

Water Supply  
Rising Main from HSVP

Amount in Rs.

- |  |             |
|--|-------------|
| 1. Providing , laying , jointing and testing pipe lines including<br>Cost of excavation etc. complete in all respects.<br>80 mm dia. D.I. Pipe 135 m @ Rs. 1120/M- | Rs.1,51,200 |
| 2. Providing and fixing sluice valve including cost of surface box<br>and masonry chamber etc. complete in all respects.<br>80 mm i/d 1 No. @ Rs. 12000/-          | Rs.12,000   |
| 3. Providing and fixing indicating plates for sluice valve and air<br>Valves. - 1 @ Rs. 2000/- each  | Rs.2,000    |
| 4. Provision for carriage for materials (Lump Sum)   | Rs.50,000   |
| 5. Making Water Supply Connection,including road cut with HSVP master line.  | Rs.2,00,000 |
| 6. Provision for roads cut and make up good condition  | Rs.1,00,000 |

TOTAL Rs.5,15,200



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Sub Work No. 1

Water Supply  
Water Distribution System (Domestic  
And Flushing)

Sub-Head No. 04

|  | <i>Amount in Rs.</i> |
|--|----------------------|
| 1. Providing , Laying , jointing and testing D.I pipe line including Fittings, valves, cost of excavation etc. complete in all respect.<br>D.I Pipe 100 mm , 1590(765+825) M @ Rs.1460/- per meter | Rs.23,21,400         |
| 2. Providing and fixing 20 mm dia. irrigation hydrant Valve,Chamber & Cover Etc. complete in all respect. 12 Nos. @ Rs. 5000/ each   | Rs.60,000            |
| 3. Provision for carriage of materials (Lump Sum)  | Rs.1,00,000          |
| 4. Provision for cutting of road and making its good condition   | Rs.1,00,000          |
| 5. Provision for air valve 2 No. and sluice valve complete with masonry chamber (L.S)  | Rs.1,00,000          |
| 6. Providing & Fixing indicating plates for sluice valve,air valve (L.S)   | Rs.10,000            |
| 7. Providing & Fixing fire hydrant complete with masonry chamber(L.S)  | Rs.1,00,000          |
| <b>Total</b>   | <b>Rs.27,91,400</b>  |

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



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## Sub-Work No. II

## SEWERAGE SCHEME

Amount in Rs.

|  |                |
|--|----------------|
| 1. Providing, jointing, cutting and testing SW/DWC 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 0 mm i/d , 820M @1700/-per m  | Rs.13,94,000   |
| 2. Rising main from STP to MH  |                |
| a) 200 mm dia 110 m @ Rs. 2150/m   | Rs.2,36,500    |
| 3. STP Cap. 400 KLD upto tertiary level, complete in all respect @14000/- per kl   | Rs.56,00,000   |
| 4. Provision for making HSVP Connection on main line (L.S)   | Rs.2,00,000    |
| 5. Provision for watering & lighting   | Rs.2,00,000    |
| 6. Provision for vent pipe as per P.H. requirements at suitable places   | Rs.3,00,000    |
| 7. Provision for cutting of roads and making good condition  | Rs.2,00,000    |
| 8. Provision for timbering & shovering (L.S)   | Rs.1,00,000    |
| <b>Total</b>   | Rs.82,30,500   |
| Add 3% contingencies & PH charges  | Rs.2,46,915    |
| <b>Total</b>   | Rs.84,77,415   |
| Add 49% Price Escalation, Departmental charges   | Rs.41,53,933   |
| <b>TOTAL</b>   | Rs.1,26,31,348 |

SAY IN LACS 126.31

(Cost to Final abstract of cost)



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Sub-Work No. III

## STORM WATER SCHEME

Amount in Rs.

|   |              |
|---|--------------|
| 1. Providing and laying R.C.C. pipe drain class NP-3<br>With cement joint ,Catch Basins & Road Gullies, manholes excavation etc<br>complete in all respect. |              |
| a) 400 mm dia. 770 M @ Rs. 2500/m   | Rs.19,25,000 |
| b). Providing Rain Harvesting arrangements, complete in all respects(if applicable)<br>8 Nos @ Rs 300,000   | Rs.24,00,000 |
| 2. Provision for Carriage of Material (L.S)   | Rs.1,00,000  |
| 3. Provision for watering & timbering and unforeseen (L.S)  | Rs.2,00,000  |
| 4. Provision for connection with HSVP line  | Rs.2,00,000  |
| 5. Provision for Road gullies and cement (L.S)  | Rs.3,50,000  |
| 6. Provision for watering & lighting  | Rs.1,00,000  |
| 7. Provision for temporary disposal arrangements till HSVP services are provided.   | Rs.6,00,000  |
| 8. Provision for road cutting and making road to its in original condition.L.S  | Rs.2,00,000  |
| <b>Total</b>  | Rs.60,75,000 |
| Add 3% for contingencies and PH charges   | Rs.1,82,250  |
| <b>Total</b>  | Rs.62,57,250 |
| Add 49% Departmental charges  | Rs.30,66,053 |
| <b>TOTAL</b><br>(Cost to Final abstract of cost)  | Rs.93,23,303 |

SAY IN LACS      93.23



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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING EXTERNAL SERVICES ESTIMATE

SUBJECT: WATER DEMAND CALCULATIONS

| S. No.   | Unit Type  | Category as per latest NBC | Total No. of Plots | Total Area (in Sqm) | Persons considered per plot as per HSVP 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) |
|--|--|----------------------------|--------------------|---------------------|---|------------------|------------------------------------|-------------------------------------|---------------------------------|----------------------------------|-------------------------------|
| <b>I. DOMESTIC WATER DEMAND</b>                  |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  |                               |
| 1  | Plots  | Residential                | 140                |                     | 18  | 2520             | 115.57                             | 56.93                               | 291236.4                        | 143463.6                         | 4,34,700                      |
| 2  | Commercial Block   | Business                   |                    | 0.29413             |   | 32000 Ltr./Acre  |                                    |                                     | 6306.1                          | 3106.0                           | 9,412                         |
| 4  | Common Facilities  |                            |                    | 0.83522             |   | 25000 Ltr./Acre  |                                    |                                     | 13989.9                         | 6890.6                           | 20,881                        |
|  |  |                            |                    | <b>Total</b>        |   |                  |                                    |                                     | <b>311532.5</b>                 | <b>153460.2</b>                  | <b>464993</b>                 |
|  |  |                            |                    | <b>Grand Total</b>  |   |                  |                                    |                                     | <b>311,532</b>                  | <b>153460</b>                    | <b>4,64,993</b>               |
|  |  |                            |                    |                     |   |                  |                                    |                                     | <b>312</b>                      | <b>154</b>                       | <b>465</b>                    |
| <b>II. HORTICULTURAL WATER DEMAND</b>            |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  |                               |
| (a)  | Total Green area = 0.63340 Acre @ 25000 litre/ Acre(say)                                 |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  |                               |
| (b)  | Road Washing = Area under Roads 20% out of 8.35 Acre = 1.67 Acre @ 5000 litre/ Acre(say) |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  |                               |
|  | <b>Total, Say (in Cu.m. per day)</b>   |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  |                               |
| <b>TOTAL WATER REQUIREMENTS FOR ALL PURPOSES</b> |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  |                               |
|  |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  | <b>15835</b>                  |
|  |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  | <b>8350</b>                   |
|  |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  | <b>24.2</b>                   |
|  |  |                            |                    |                     |   |                  |                                    |                                     |                                 |                                  | <b>489.2</b>                  |

| <b>III. TUBE WELLS</b> |                                |             |                     |
|------------------------|--------------------------------|-------------|---------------------|
| (a)                    | Yield                          | 15          | Kl/Hr               |
| (b)                    | Working Hours per Day          | 12          | Hours per Day       |
| (c)                    | Discharge per Tube well        | 180         |                     |
|                        | Total Fresh water demand       | 312         | m <sup>3</sup> /day |
| (d)                    | Number of Tube wells required. | 1.73        |                     |
| (e)                    | Add 10% as standby             | 0.17        |                     |
|                        | <b>Total</b>                   | <b>1.90</b> | <b>Nos.</b>         |
|                        | <b>Say</b>                     | <b>2.00</b> | <b>Nos.</b>         |

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



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**IV. PUMPING MACHINERY FOR TUBEWELLS**

|     |   |       |        |
|-----|---|-------|--------|
| (a) | Gross Working Head  | 60    | Meters |
| (b) | Average fall in S.L.  | 2     | Meters |
| (c) | Depression Head   | 6     | Meters |
| (d) | Friction loss in main   | 10    | Meters |
|     | Total   | 78    | Meters |
| (e) | Discharge   | 15000 | LPH    |
| (f) | Horse Power   | 7.22  | HP     |
|     | HP = $(15000 \times 45 \times 1) / (60 \times 60 \times 75 \times 0.6)$ |       |        |
|     | Say   | 7.50  | HP     |

**V. UNDER GROUND TANK**

|     |  |       |                     |
|-----|--|-------|---------------------|
| (a) | Total water demand (Daily for Domestic purposes)   | 312   | m <sup>3</sup> /day |
|     | Capacity of U.G. tank @60 % of 312   |       |                     |
| (b) | Proposed capacity of underground tanks (Raw + Domestic) for domestic use. (25+33%) =58% (SAY 60%) storage of (One day Storage) = 0.6 X 312 = 187.2say 200 kl | 200.0 | m <sup>3</sup>      |
| (c) | Proposed capacity of underground static tank for fire =100X sqroot of 2520/1000 = 158.75 Kl. = 1/3 X 158.75= 52.91 Kl. say 60 kl                             | 60.00 | m <sup>3</sup>      |
|     | TOTAL  | 260   | kl                  |
| (d) | Flushing Water 154Kl @ 60% = 92.4 Kl.  | 75.6  | kl                  |
| (e) | Horticulture Water = 24.2 Kl.  | 24.2  | kl                  |
|     | TOTAL  | 99.8  | kl                  |
|     | Say  | 100   | kl                  |

**VI. (A) BOOSTING MACHINERY (Water Supply Pumps)**

|     |   |        |                      |
|-----|---|--------|----------------------|
| (a) | Daily Domestic Water Demand                     | 312    | m <sup>3</sup> /day  |
| (b) | Discharge per hour @ 8 hr. pumping / day        | 38.95  | m <sup>3</sup> /Hour |
|     | Say   | 650.0  | LPM                  |
| (c) | No. of Working pump ( 2 working + one standby ) | 2.0    |                      |
| (d) | Proposed Pump discharge (Working)               | 325.00 | LPM                  |
|     | Say   | 350.00 | LPM                  |
|     | Gross Working Head                              |        |                      |
| (a) | Suction lift - positive suction                 | 6      | Meters               |
| (b) | Frictional Loss in Mains & Specials             | 9      | Meters               |
| (c) | Max Clear Head required                         | 30     | Meters               |
|     | Total   | 45     | Meters               |
| (g) | H.P. of each pump required                      | 5.83   | HP                   |
|     | Pump H.P.                                       |        |                      |
|     | Say   | 6.00   | HP                   |



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| VI.(B) BOOSTING MACHINERY (Flushing & Garden Supply Pumps from SIP) |   |        |                      |
|---|---|--------|----------------------|
| (a)   | Daily Flushing & Horticultural Water Demand.  | 154    | m <sup>3</sup> /day  |
| (b)   | Discharge per hour @ 8 hr. pumping/day        | 19.25  | m <sup>3</sup> /Hour |
| (c)   | No. of Working pump                           | 330.00 | LPM                  |
| (d)   | Proposed Pump discharge (Working)             | 1      |                      |
|   |   | SAY    |                      |
|   |   | 330.00 | LPM                  |
|   |   | SAY    |                      |
|   |   | 350.00 | LPM                  |
| Gross Working Head  |   |        |                      |
| (e)   | Suction lift - positive suction               | 6      | Meters               |
| (f)   | Frictional Loss in Mains & Specials           | 9      | Meters               |
| (g)   | Max Clear Head required                       | 30     | Meters               |
|   |   | 45     | Meters               |
|   |   | Total  |                      |
| (h)   | H.P. of each pump required (Pump H.P.)        | 5.83   | HP                   |
|   |   | SAY    |                      |
|   |   | 6.00   | HP                   |
| VII. GENERATING SETS  |   |        |                      |
| 1   | HP of Tube well pump = 2 X 7.5 = 15           | 15.00  |                      |
| 2   | HP of Domestic water supply Pump = 2 X 6 = 12 | 12.00  |                      |
| 3   | HP of Flushing water supply Pump = 1 X 6 = 6  | 6.00   |                      |
| 4   | Add for lighting                              | 5.00   |                      |
|   |   | Total  |                      |
|   |   | 38.00  | HP                   |
|   |   | 42.52  | KVA                  |
|   |   | SAY    |                      |
|   |   | 50.00  | KVA                  |
| VIII. STP CAPACITY  |   |        |                      |
| 1   | Total water required Domestic + Flushing      | 465    | KI                   |
| 2   | Water go to STP @ 80%                         | 372    |                      |
| 3   | Add for 5% for margin                         | 18.6   |                      |
|   |   | 390.6  |                      |
|   |   | TOTAL  |                      |
|   |   | SAY    |                      |
|   |   | 400.00 | KI                   |



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PROJECT: M/S VK AND SONS BUILDWELL PVT. LTD. DDJAY PLOTTING. EXTERNAL SERVICES ESTIMATE

SUBJECT: SEWERAGE SYSTEM DESIGN SHEET

| S. No. | Sewer Line | No. of Plots | Population / PLOT | Total Population | Water Supply | Total Water Requirement | Sewerage Discharge (EPD) |          |          | Average Sewerage Discharge |        | Peak Sewerage Discharge |        | Size of Pipe | Velocity |     | Design Discharge | Length of Line | Slope | Fall in Meters |       | Ground Level |       | Invert Level |       | Depth of MH |       | Average depth of pipe |       |
|--------|------------|--------------|-------------------|------------------|--------------|-------------------------|--------------------------|----------|----------|----------------------------|--------|-------------------------|--------|--------------|----------|-----|------------------|----------------|-------|----------------|-------|--------------|-------|--------------|-------|-------------|-------|-----------------------|-------|
|        |            |              |                   |                  |              |                         | Self                     | Branch   | Total    | LPS                        | Cu sec | LPS                     | Cu sec |              | feet/sec | M/S |                  |                |       | Cu sec         | Start | End          | Start | End          | Start | End         | Start |                       | End   |
| 2      | 3          | 4            | 5                 | 6                | 7            | 8                       | 6                        | 7        | 8        | 9                          | 10     | 11                      | 12     | 13           | 14       | 15  | 16               | 18             | 19    | 20             | 21    | 22           | 23    | 25           | 26    | 28          |       |                       |       |
|        | From 10    |              |                   |                  |              |                         |                          |          |          |                            |        |                         |        |              |          |     |                  |                |       |                |       |              |       |              |       |             |       |                       |       |
| 1      | 4          | 23           | 18                | 414              | 172.5        | 7141.5                  | 57.132                   |          | 57.132   | 0.061                      | 1.98   | 0.07                    | 200    | 2.42         | 0.74     | 200 | 0.090            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 2      | 4          | 2            | 18                | 36               | 172.5        | 6210                    | 4.968                    | 27.132   | 62.100   | 0.719                      | 2.16   | 0.08                    | 200    | 2.42         | 0.74     | 200 | 0.063            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 3      | 3          | 3            | 0                 | 0                | 172.5        | 9412                    | 7.530                    |          | 7.530    | 0.087                      | 0.26   | 0.01                    | 200    | 2.42         | 0.74     | 200 | 0.050            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 4      | 3          | 8            | 18                | 144              | 172.5        | 24640                   | 19.872                   | 7.530    | 27.402   | 0.917                      | 0.85   | 0.03                    | 200    | 2.42         | 0.74     | 200 | 0.100            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 5      | 5          | 0            | 18                | 72               | 172.5        | 12420                   | 9.936                    | 89.302   | 99.438   | 1.151                      | 1.45   | 0.12                    | 200    | 2.42         | 0.74     | 200 | 0.110            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 6      | 6          | 0            | 18                | 0                | 172.5        | 0                       | 0                        | 99.438   | 99.438   | 1.151                      | 3.45   | 0.12                    | 200    | 2.42         | 0.74     | 200 | 0.205            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 7      | 7          | 8            | 27                | 186              | 172.5        | 85815                   | 67.688                   | 99.438   | 1.69.506 | 1.927                      | 5.78   | 0.20                    | 200    | 2.42         | 0.74     | 200 | 0.095            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 8      | 8          | 9            | 36                | 324              | 172.5        | 49511                   | 0.608                    | 1.60.306 | 1.98.114 | 2.251                      | 6.88   | 0.24                    | 200    | 2.42         | 0.74     | 200 | 0.250            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 9      | 9          | 10           | 18                | 72               | 172.5        | 12420                   | 9.936                    | 1.98.114 | 2.08.050 | 2.468                      | 7.33   | 0.25                    | 200    | 2.42         | 0.74     | 200 | 0.200            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 10     | 11         | 12           | 20                | 180              | 172.5        | 62100                   | 49.680                   | 1.98.114 | 49.680   | 0.575                      | 1.73   | 0.06                    | 200    | 2.42         | 0.74     | 200 | 0.410            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 11     | 12         | 14           | 0                 | 0                | 172.5        | 0                       | 0                        | 49.680   | 49.680   | 0.575                      | 1.73   | 0.06                    | 200    | 2.42         | 0.74     | 200 | 0.035            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |
| 12     | 13         | 14           | 0                 | 0                | 172.5        | 18630                   | 14.904                   | 49.680   | 14.904   | 0.171                      | 0.52   | 0.02                    | 200    | 2.42         | 0.74     | 200 | 0.210            | 0.000          | 0.000 | 0.000          | 0.000 | 0.000        | 0.000 | 0.000        | 0.000 | 0.000       | 0.000 | 0.000                 | 0.000 |



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| PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY<br>PLOTING EXTERNAL SERVICES ESTIMATE |            |    |              |                     |       |
|---|------------|----|--------------|---------------------|-------|
| SUBJECT : SEWERAGE SYSTEM SHEET   |            |    |              |                     |       |
| S.No.   | Sewer Line |    | Size of Pipe | Length of Line in m |       |
|   | From       | To | MM           | 200mm               | 250mm |
| 1   | 1          | 4  | 200          | 98                  |       |
| 2   | 4          | 5  | 200          | 13                  |       |
| 3   | 2          | 3  | 200          | 10                  |       |
| 4   | 3          | 5  | 200          | 60                  |       |
| 5   | 5          | 6  | 200          | 28                  |       |
| 6   | 6          | 7  | 200          | 41                  |       |
| 7   | 7          | 8  | 200          | 139                 |       |
| 8   | 8          | 9  | 200          | 56                  |       |
| 9   | 9          | 10 | 200          | 40                  |       |
| 10  | 11         | 12 | 200          | 82                  |       |
| 11  | 12         | 14 | 200          | 7                   |       |
| 12  | 13         | 14 | 200          | 42                  |       |
| 13  | 14         | 15 | 200          | 121                 |       |



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Vijendra Pal Singh  
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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD, DD/JAY PLOTTING EXTERNAL SERVICES ESTIMATE

SUBJECT : DRAINAGE SYSTEM DESIGN SHEET

| S. No. | LINE NO. | FROM | TO | Self Area (m <sup>2</sup> ) | 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 ips | Fall in line m | Ground Level |      | Invert Level |       | Depth |      |         |
|--------|----------|------|----|-----------------------------|------------------|--------------------|-------------------|----------------------|-----------------|------------------------------|-------------|----------------|------------|-----------------|--------------------|----------------|--------------|------|--------------|-------|-------|------|---------|
|        |          |      |    |                             |                  |                    |                   |                      |                 |                              |             |                |            |                 |                    |                | Start        | End  | Start        | End   | Start | End  | Average |
| 1      | 1        |      | 2  | 1949.00                     | 0.48             | 0.00               | 0.48              | 0.19                 | 6.25            | 3.38                         | 68          | 400            | 500        | 0.64            | 80.75              | 0.14           | 0.00         | 0.00 | -1.20        | -1.34 | 1.20  | 1.34 | 1.27    |
| 2      | 2        |      | 3  | 957.00                      | 0.24             | 0.48               | 0.72              | 0.29                 | 6.25            | 5.04                         | 27          | 400            | 500        | 0.64            | 80.75              | 0.05           | 0.00         | 0.00 | -1.34        | -1.39 | 1.34  | 1.39 | 1.36    |
| 3      | 3        |      | 4  | 4925.00                     | 1.22             | 0.72               | 1.94              | 0.78                 | 6.25            | 13.59                        | 56          | 400            | 500        | 0.64            | 80.75              | 0.11           | 0.00         | 0.00 | -1.39        | -1.50 | 1.39  | 1.50 | 1.45    |
| 4      | 4        |      | 5  | 4636.00                     | 1.15             | 1.94               | 3.08              | 1.25                 | 6.25            | 21.64                        | 110         | 400            | 500        | 0.64            | 80.75              | 0.22           | 0.00         | 0.00 | -1.50        | -1.72 | 1.50  | 1.72 | 1.61    |
| 5      | 5        |      | 6  | 576.00                      | 0.14             | 5.99               | 6.13              | 2.48                 | 6.25            | 43.07                        | 28          | 400            | 500        | 0.64            | 80.75              | 0.06           | 0.00         | 0.00 | -1.72        | -1.78 | 1.72  | 1.78 | 1.75    |
| 6      | 6        |      | 7  | 372.00                      | 0.09             | 6.13               | 6.22              | 2.52                 | 6.25            | 43.72                        | 41          | 400            | 500        | 0.64            | 80.75              | 0.08           | 0.00         | 0.00 | -1.78        | -1.86 | 1.78  | 1.86 | 1.82    |
| 7      | 7        |      | 8  | 1283.00                     | 0.32             | 6.22               | 6.54              | 2.65                 | 6.25            | 45.95                        | 35          | 400            | 500        | 0.64            | 80.75              | 0.07           | 0.00         | 0.00 | -1.86        | -1.93 | 1.86  | 1.93 | 1.90    |
| 8      | 8        |      | 9  | 2860.00                     | 0.71             | 7.59               | 8.30              | 3.36                 | 6.25            | 58.29                        | 77          | 400            | 500        | 0.64            | 80.75              | 0.15           | 0.00         | 0.00 | -1.93        | -2.08 | 1.93  | 2.08 | 2.01    |
| 9      | 9        |      | 10 | 4250.00                     | 1.05             | 0.00               | 1.05              | 0.43                 | 6.25            | 7.38                         | 82          | 400            | 500        | 0.64            | 80.75              | 0.16           | 0.00         | 0.00 | -1.20        | -1.36 | 1.20  | 1.36 | 1.28    |
| 10     | 10       |      | 11 | 3634.00                     | 0.90             | 2.01               | 2.91              | 1.18                 | 6.25            | 20.43                        | 83          | 400            | 500        | 0.64            | 80.75              | 0.17           | 0.00         | 0.00 | -1.44        | -1.61 | 1.44  | 1.61 | 1.53    |
| 11     | 11       |      | 12 | 1092.00                     | 0.27             | 0.00               | 0.27              | 0.11                 | 6.25            | 1.90                         | 26          | 400            | 500        | 0.64            | 80.75              | 0.05           | 0.00         | 0.00 | -1.20        | -1.25 | 1.20  | 1.25 | 1.23    |



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| PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY<br>PLOTING EXTERNAL SERVICES ESTIMATE |          |        |           |                     |       |
|---|----------|--------|-----------|---------------------|-------|
| SUBJECT : DRAINAGE SYSTEM SHEET   |          |        |           |                     |       |
| S. No.  | Line No. |        | Pipe dia. | Length of pipe in m |       |
|   | From     | To     | mm        | 400mm               | 500mm |
| 2   | 1        | 2      | 400       | 68                  |       |
| 3   | 2        | 4      | 400       | 27                  |       |
| 4   | 3        | 4      | 400       | 56                  |       |
| 5   | 4        | 5      | 400       | 110                 |       |
| 6   | 5        | 6      | 400       | 28                  |       |
| 7   | 6        | 7      | 400       | 41                  |       |
| 8   | 7        | 8      | 400       | 35                  |       |
| 9   | 8        | 9      | 400       | 77                  |       |
| 10  | 8        | 10     | 400       | 82                  |       |
| 11  | 5        | 12     | 400       | 83                  |       |
| 12  | 11       | 12     | 400       | 26                  |       |
| 13  | 12       | 13     | 400       | 122                 |       |
| 14  | 9        | DISPOS | 400       | 10                  |       |

VK & Sons Buildwell Pvt Ltd  
 Plotting External Services Estimate  
 14.02.2023



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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DD/JAY PLOTTING. EXTERNAL SERVICES ESTIMATE  
 SUBJECT: DOMESTIC WATER SUPPLY DESIGN SHEET

| 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 | Size of Pipe Provided | Velocity in ft/sec. | 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 |
|--------|------------------|-------------|-----------------------------|---------------------------------|-----------------------------------|-----------------------------------|--|-----------------------|---------------------|--------------------|---------------------|---------------------------------|----------------------------|--------------|---------|-----------------|--------|---------------|
|        |                  |             |                             |                                 |                                   |                                   |  |                       |                     |                    |                     |                                 |                            | Start        | End     | Start           | End    |               |
|        | FROM             | TO          |                             |                                 |                                   | Total                             |  | mm                    |                     |                    |                     |                                 |                            |              |         |                 |        |               |
| 1      | W11P             | 1           | 0.00                        | 0.0                             | 311.5                             | 311.5                             | 38,94.2  | 100                   | 4.53                | 1.38               | 75                  | 0.881                           | 25                         | 100.00       | 135.000 | 134.119         | 34.119 |               |
| 2      | 1                | 2           | 43.7                        | 43.7                            | 74.3                              | 118.0                             | 14,75.0  | 100                   | 1.72                | 0.52               | 6                   | 0.468                           | 80                         | 100.00       | 135.000 | 134.532         | 34.532 |               |
| 3      | 2                | 3           | 26.5                        | 26.5                            | 47.8                              | 74.3                              | 9,29.0   | 100                   | 1.08                | 0.33               | 2                   | 0.139                           | 56                         | 100.00       | 135.000 | 134.861         | 34.861 |               |
| 4      | 3                | 4           | 16.6                        | 16.6                            | 31.2                              | 47.8                              | 5,98.1   | 100                   | 0.70                | 0.21               | 1                   | 0.029                           | 26                         | 100.00       | 135.000 | 134.971         | 34.971 |               |
| 5      | 4                | 5           | 31.2                        | 31.2                            | 0.0                               | 31.2                              | 3,90.0   | 100                   | 0.45                | 0.14               | 0                   | 0.031                           | 63                         | 100.00       | 135.000 | 134.969         | 34.969 |               |
| 6      | 1                | 9           | 12.5                        | 12.5                            | 181.0                             | 193.5                             | 24,19.1  | 100                   | 2.81                | 0.86               | 15                  | 0.438                           | 30                         | 100.00       | 135.000 | 134.562         | 34.562 |               |
| 7      | 9                | 10          | 0.0                         | 0.0                             | 85.4                              | 85.4                              | 10,67.0  | 100                   | 1.24                | 0.38               | 3                   | 0.087                           | 27                         | 100.00       | 135.000 | 134.913         | 34.913 |               |
| 8      | 10               | 11          | 0.0                         | 0.0                             | 85.4                              | 85.4                              | 10,67.0  | 100                   | 1.24                | 0.38               | 3                   | 0.132                           | 41                         | 100.00       | 135.000 | 134.868         | 34.868 |               |
| 9      | 11               | 12          | 12.5                        | 12.5                            | 72.9                              | 85.4                              | 10,67.0  | 100                   | 1.24                | 0.38               | 3                   | 0.116                           | 36                         | 100.00       | 135.000 | 134.884         | 34.884 |               |
| 10     | 12               | 13          | 20.9                        | 20.9                            | 0.0                               | 20.9                              | 2,60.8   | 100                   | 0.30                | 0.09               | 0                   | 0.011                           | 45                         | 100.00       | 135.000 | 134.989         | 34.989 |               |
| 11     | 12               | 14          | 52.0                        | 52.0                            | 0.0                               | 52.0                              | 6,50.1   | 100                   | 0.76                | 0.23               | 1                   | 0.123                           | 96                         | 100.00       | 135.000 | 134.877         | 34.877 |               |
| 12     | 9                | 7           | 41.6                        | 41.6                            | 54.1                              | 95.7                              | 11,96.1  | 100                   | 1.39                | 0.42               | 4                   | 0.325                           | 82                         | 100.00       | 135.000 | 134.675         | 34.675 |               |

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| PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY<br>PLOTTING EXTERNAL SERVICES ESTIMATE |                  |    |              |                        |
|--|------------------|----|--------------|------------------------|
| SUBJECT: DOMESTIC WATER SUPPLY SHEET   |                  |    |              |                        |
| S. No.   | Line Designation |    | Size of Pipe | Length of pipe<br>in m |
|  |                  |    | mm           | 100mm                  |
| 1  | WTP              | 1  | 100          | 25                     |
| 2  | 1                | 2  | 100          | 80                     |
| 3  | 2                | 3  | 100          | 56                     |
| 4  | 3                | 4  | 100          | 26                     |
| 5  | 4                | 5  | 100          | 63                     |
| 6  | 1                | 9  | 100          | 30                     |
| 7  | 9                | 10 | 100          | 27                     |
| 8  | 10               | 11 | 100          | 41                     |
| 9  | 11               | 12 | 100          | 36                     |
| 10   | 12               | 13 | 100          | 45                     |
| 11   | 12               | 14 | 100          | 96                     |
| 12   | 9                | 7  | 100          | 82                     |

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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING EXTERNAL SERVICES ESTIMATE  
 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 |          | Terminat<br>I Head |
|--------|----------|----|-------------|-----------------------------------|--------------|-----------|--|-----------------------|------------|--------|----------------------|---------------------------------|----------------------------|--------------|----------|-----------------|----------|--------------------|
|        | From     | To |             |                                   |              |           |  |                       | in ft/sec. | in m/s |                      |                                 |                            | Start in m   | End in m | Start in m      | End in m |                    |
| 1      | SIP      | 1  | 0           | 0.0                               | 153.5        | 153.5     | 19.188   | 100                   | 2.23       | 0.68   | 9                    | 0.340                           | 36                         | 94.00        | 100.00   | 129.00          | 128.66   | 35.00              |
| 2      | 1        | 2  | 2           | 2.0                               | 65.6         | 67.6      | 8.454  | 100                   | 0.98       | 0.30   | 2                    | 0.095                           | 52                         | 101.30       | 101.30   | 136.30          | 136.20   | 34.90              |
| 3      | 2        | 3  | 13          | 13.3                              | 0.0          | 13.3      | 1.665  | 100                   | 0.19       | 0.06   | 0                    | 0.002                           | 31                         | 101.30       | 101.30   | 136.30          | 136.30   | 35.00              |
| 4      | 1        | 4  | 4           | 15.1                              | 82.8         | 97.8      | 12.230   | 100                   | 1.42       | 0.43   | 4                    | 0.188                           | 49                         | 101.30       | 101.30   | 136.30          | 136.11   | 34.81              |
| 5      | 4        | 5  | COMMUNITY   | 13.0                              | 69.7         | 82.8      | 10.344   | 100                   | 1.20       | 0.37   | 3                    | 0.077                           | 28                         | 101.30       | 101.30   | 136.30          | 136.22   | 34.92              |
| 6      | 5        | 10 | 27          | 27.7                              | 42.0         | 69.7      | 8.714  | 100                   | 1.01       | 0.31   | 2                    | 0.177                           | 91                         | 101.30       | 101.30   | 136.30          | 136.12   | 34.82              |
| 7      | 10       | 11 | 0           | 0.0                               | 42.0         | 42.0      | 5.256  | 100                   | 0.61       | 0.19   | 1                    | 0.106                           | 149                        | 101.30       | 101.30   | 136.30          | 136.19   | 34.89              |
| 8      | 11       | 12 | 4           | 4.1                               | 37.9         | 42.0      | 5.256  | 100                   | 0.61       | 0.19   | 1                    | 0.064                           | 90                         | 101.30       | 101.30   | 136.30          | 136.24   | 34.94              |
| 9      | 12       | 13 | 9           | 9.2                               | 3.1          | 12.3      | 1.541  | 100                   | 0.18       | 0.05   | 0                    | 0.005                           | 81                         | 101.30       | 101.30   | 136.30          | 136.30   | 35.00              |
| 10     | 13       | 14 | COMMERCIAL  | 3.1                               | 0.0          | 3.1       | 0.388  | 100                   | 0.05       | 0.01   | 0                    | 0.000                           | 12                         | 101.30       | 101.30   | 136.30          | 136.30   | 35.00              |
| 11     | 12       | 15 | 25          | 25.6                              | 0.0          | 25.6      | 3.202  | 100                   | 0.37       | 0.11   | 0                    | 0.008                           | 32                         | 101.30       | 101.30   | 136.30          | 136.29   | 34.99              |
| 12     | 6        | 7  | 20          | 20.5                              | 0.0          | 20.5      | 2.562  | 100                   | 0.30       | 0.09   | 0                    | 0.005                           | 32                         | 101.30       | 101.30   | 136.30          | 136.29   | 34.99              |



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| PROJECT: M/S VK AND SONS INFRA TECH PVT LTD. PLOTTING<br>EXTERNAL SERVICES ESTIMATE |                  |    |                        |                |       |
|---|------------------|----|------------------------|----------------|-------|
| SUBJECT: FLUSHING & GARDEN WATER SUPPLY SHEET                                       |                  |    |                        |                |       |
| S. No.  | Line Designation |    | Size of Pipe<br>mm Dia | Length of pipe |       |
|   |                  |    |                        | 100MM          | 150MM |
| 1   | STP              | 1  | 100                    | 8              |       |
| 2   | 1                | 2  | 100                    | 20             |       |
| 3   | 2                | 3  | 100                    | 54             |       |
| 4   | 1                | 4  | 100                    | 40             |       |
| 5   | 4                | 5  | 100                    | 56             |       |
| 6   | 5                | 10 | 100                    | 139            |       |
| 7   | 10               | 11 | 100                    | 41             |       |
| 8   | 11               | 12 | 100                    | 24             |       |
| 9   | 12               | 13 | 100                    | 64             |       |
| 10  | 13               | 14 | 100                    | 10             |       |
| 11  | 12               | 15 | 100                    | 116            |       |
| 12  | 6                | 7  | 100                    | 82             |       |
| 13  | 7                | 8  | 100                    | 6              |       |
| 14  | 8                | 9  | 100                    | 42             |       |
| 15  | 8                | 2  | 100                    | 121            |       |
| <b>TOTAL PIPE FOR 100Ø</b>  |                  |    |                        | <b>823</b>     |       |
| <b>SAY</b>  |                  |    |                        | <b>825</b>     |       |



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**PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING EXTERNAL SERVICES ESTIMATE**  
**SUBJECT : ROAD WORKS**

| S. No. | Description   | Unit  | Qty     | Rate (in Rs.) | Amount (in Rs.) |
|--------|---|-------|---------|---------------|-----------------|
| 1      | Provision for leveling & earth filling as per site conditions                             | Acre. | 8.35000 | 1,75,000      | 14,61,250       |
| 2      | Construction of Roads 200mm granular surface, 250mm water mix macadam, 50mm DBM, 30mm BC. | Sqm   | 4,000   | 1,500         | 60,00,000       |
| 3      | Provision for Kerbs & channels of CC 1:2, 5:5.complets in all respect                     | Metre | 1,460   | 600.00        | 8,76,000        |
| 4      | Provision for Pavement in commercial area and pavements. (50% OF AREA)                    | Sqm   | 595.15  | 1,500.00      | 8,92,725        |
| 5      | Provision for Traffic arrangement   | LS    |         |               | 2,00,000        |
| 6      | Provision for carriage of materials, Guid map Plot indecater etc.                         | LS    |         |               | 1,50,000        |
|        | Sub Total   |       |         |               | 95,79,975       |
|        | Add 3% contingencies & PH charges   |       |         |               | 2,87,399        |
|        | Sub Total   |       |         |               | 98,67,374       |
|        | Add 49% Departmental Charges , Price escalation, unforseen & Admin. Charges               |       |         |               | 48,35,013       |
|        | Total   |       |         |               | 1,47,02,388     |
|        | Say Rs in Lakhs (C/O to Final abstract of cost)   |       |         |               | 147.02          |

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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING  
EXTERNAL SERVICES ESTIMATE  
SUBJECT : ROAD AREA

| S. NO                                | ROAD NO      | ROAD LENGTH IN M | ROAD WIDTH (CARPETED) IN M | AREA IN SQM   |           |
|--------------------------------------|--------------|------------------|----------------------------|---------------|-----------|
| 1                                    | 1-2          | 58.00            | 5.50                       | 319.0         |           |
| 2                                    | 2-3          | 14.00            | 5.50                       | 77.0          |           |
| 3                                    | 3-4          | 34.00            | 5.50                       | 187.0         |           |
| 4                                    | 4-5          | 56.00            | 5.50                       | 308.0         |           |
| 5                                    | 5-6          | 106.00           | 5.50                       | 583.0         |           |
| 6                                    | 6-7          | 32.00            | 5.50                       | 176.0         |           |
| 7                                    | 6-8          | 92.00            | 5.50                       | 506.0         |           |
| 8                                    | 7-10         | 41.00            | 5.50                       | 225.5         |           |
| 9                                    | 8-9          | 32.00            | 5.50                       | 176.0         |           |
| 10                                   | 10-11        | 30.00            | 5.50                       | 165.0         |           |
| 11                                   | 11-12        | 86.00            | 5.50                       | 473.0         |           |
| 12                                   | 11-13        | 110.00           | 5.50                       | 605.0         |           |
| 13                                   | <b>TOTAL</b> | <b>691.00</b>    |                            | <b>3800.5</b> |           |
| ADD 5% FOR CURVES                    |              | 34.55            |                            | 190.0         |           |
| <b>TOTAL</b>                         |              | <b>725.55</b>    |                            | <b>3990.5</b> |           |
|                                      |              |                  | <b>SAY</b>                 | <b>4000.0</b> |           |
| <b>LENGTH OF KERB STONE=725.55x2</b> |              |                  |                            | <b>1451.1</b> | <b>RM</b> |
| <b>SAY</b>                           |              |                  |                            | <b>1460</b>   | <b>RM</b> |

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PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING EXTERNAL SERVICES

SUBJECT: EXTERNAL LIGHTING

| S.No. | Discription  | UM   | Qty.    | Rate   | Amount     |
|-------|--|------|---------|--------|------------|
| 1     | Providing and installing street light on roads as for standard specification of DHVPM with LED | Acre | 8.35000 | 250000 | 2087500    |
| 2     | Contigency and Frieght Charges @ 3%  |      |         |        | 62625      |
|       | TOTAL  |      |         |        | 2150125    |
| 3     | ADD 49% Deptt charges, price escalation unforeseen & dmin charges                              |      |         |        | 1053561.25 |
| 4     | TOTAL  |      |         |        | 3203686.25 |
|       | Say Rs in Lakhs (C/O to Final abstract of cost)  |      |         |        | 32.04      |

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**PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING EXTERNAL SERVICES ESTIMATE****SUBJECT: PLANTATION & ROAD SIDE TRESS**

| S.No.              | Description  | Unit           | Qty     | Rate<br>(in Rs.) | Amount<br>(in Rs.) |
|--------------------|--|----------------|---------|------------------|--------------------|
| 1                  | Development of organised lawn green area.  | Acre           | 0.63340 | 1,50,000.00      | 95,010.00          |
| 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 = (1153/12) =96.08 say 100   | Nos.           | 100     | 1,800.00         | 1,80,000.00        |
| <b>Cost Detail</b> |  |                |         |                  |                    |
|                    | Excavation   | 60.00          |         |                  |                    |
|                    | Manure   | 90.00          |         |                  |                    |
|                    | Tree Plant   | 150.00         |         |                  |                    |
|                    | Tree Guard   | 1500.00        |         |                  |                    |
|                    | <b>Total</b>   | <b>1800.00</b> |         |                  |                    |
|                    | Sub Total  |                |         |                  | 2,75,010.00        |
|                    | Add 3% contingencies & PH charges  |                |         |                  | 8,250.30           |
|                    | Sub Total  |                |         |                  | 2,83,260.30        |
|                    | Add 49% Departmental charges   |                |         |                  | 1,38,797.55        |
|                    | <b>Total</b>   |                |         |                  | <b>4,22,057.85</b> |
|                    | Say Rs in Lakhs<br>(C/O to Final abstract of cost)   |                |         |                  | <b>4.22</b>        |

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**PROJECT: M/S VK AND SONS BUILDWELL PVT LTD. DDJAY PLOTTING EXTERNAL SERVICES ESTIMATE**

**SUBJECT: 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 HSVP norms for 10 years completion.                         | Acre | 8.35000  | 8,00,000      | 66,80,000.00    |
| 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  | 4,000.00 | 660           | 26,40,000.00    |
| b     | Resurfacing of road after 10 years of MTC.   | Sqm  | 4,000.00 | 825           | 33,00,000.00    |
|       | Sub Total  |      |          |               | 1,26,20,000.00  |
|       | Add 3% contingencies & PH charges  |      |          |               | 3,78,600.00     |
|       | Sub Total  |      |          |               | 1,29,98,600.00  |
|       | Add 49% Departmental charges   |      |          |               | 63,69,314.00    |
|       | Total  |      |          |               | 1,93,67,914.00  |
|       | Say Rs in Lakhs (C/O to Final abstract of cost)  |      |          |               | 193.68          |

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