

# UTTIRNA INFRAPROJECTS PRIVATE LIMITED

CIN: U70109HR2021PTC097704

Regd. Office: 6<sup>th</sup> Floor, M3M Tee Point, North Block, Sector-65, Gurugram- 122101, Haryana

E-mail: uttirnainfraprojects@gmail.com

Ref : UIPL/PG/Site/2023/16

Dated: - 05.12.2023

To,

Executive Engineer (HSVP),  
HSVP Complex, Sector - 18, Near Toll Plaza,  
Panipat, Haryana - 132103.

*Dr. S. Anand*  
E.E.



**Subject: - Approval of Service Plan Estimate for Residential Integrated Township (Under NILP 2022) over an area measuring 251.90 acres (after migrated from Licence No. 06 of 2010 dated 14.10.2010 of 314.8 acres) vide Licence no. 257 of 2023 issued vide Endst. No. LC-5003-JE(MK)-2023/40764 dated 30.11.2023 in the revenue estate of village Kabri & Taraf Insaar in Sector - 36,37,38 & 39 Panipat (HR.) being developed by Uttirna InfraProjects Pvt. Ltd.**

Sir,

We wish to submit, that we have received Licence no. 257 of 2023 issued vide Endst. No. LC-5003-JE(MK)-2023/40764 dated 30.11.2023 by Director Town and Country Planning Haryana for Residential Integrated Township (Under NILP 2022) over an area measuring 251.90625 acres (after migrated from Licence No. 06 of 2010 dated 14.10.2010 of 314.8 acres) in the revenue estate of village Kabri & Taraf Insaar in Sector - 36,37,38 & 39 Panipat (HR.) being developed by Uttirna InfraProjects Pvt. Ltd.

Now, we are hereby submitting the five set of Service Plan Estimate for the Residential Integrated Township as mentioned above. The zoning plan for Residential Integrated Township (Under NILP 2022) over an area measuring 251.90625 acres has been approved vide DRG No. - D.TCP 9837 Dated 29.11.2023.

It is requested to process our above mentioned Service Plan Estimate for Residential Integrated Township of above said project.

Thanking you,  
Yours sincerely,  
M/S Uttirna InfraProjects Pvt. Ltd.

Uttirna Infra Projects Pvt.Ltd.

*P. K. Singh*  
Authorized Signatory

Authorized Signatory  
Encl: As above.

*Discussed estimate in detail.*  
*Back with observations estimate*  
*Received*  
*Parvesh Kumar*  
*Dr*  
*14/12/23*  
*991144211*  
*Recd back*  
*after attaching to*  
*the observations*  
*on 18/12/23 to*  
*HSVP office*  
*Panipat*

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**RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.**

**Report**

Panipat town of Haryana State is situated in approx 90 Kms from Delhi. Being in the national capital Region, the town has fast developing tendency and potential. Further, it has also started sharing the growing Industrial load of Delhi. In order to relieve the growing pressure of population in National Capital of Delhi, Haryana Urban Development Authority has already developed many residential sectors. Further to the increasing demand HSVP has planned to develop new sectors in panipat. This report and estimate is for approximately 251.90625 Acres, Sector - 37, Panipat, proposed to be developed by **M/s UTRINA INFRA PROJECTS PRIVATE LIMITED**

**DOMESTIC WATER SUPPLY**

At present the source of water supply in this area is by tubewells till the HSVP supply is available water supply connection as the underground water is potable and fit for human use. The water supply system has been designed as per the Hazen William formula. The under ground tank will be filled from the tube well riser and after treatment, the water will be pumped directly to each plot. Entire domestic to the proposed development is to be supplied by the tube well and therefore, it is proposed to install 7 nos. of deep tube wells. The rate of water supply per head/day has been taken as 100 liters per head per day @ (65 % of total demand 155 liters per head per day).

**FLUSHING WATER SUPPLY**

Requirement of flushing water will met from STP recycled water supply. The water supply system has been designed as per the Hazen William formula.

**DESIGN**

The scheme has been designed for population as given in attached sheets.

**SEWERAGE SCHEME**

Sewer line from proposed development will be connecting to the proposed sewage treatment plant( STP). Surplus sewage / treated effluent shall be disposing to HSVP sewer line on Sector Road, to be provided in future. The sewerage system has been marked on the respective plans.

Sewer lines have been designed for three times average D.W.F in relation to water supply demand. It has been assumed that about 80% of the domestic & flushing water supply shall find its way into the proposed sewer. Sewer lines shall be laid to a gradient maintaining minimum 2.46 ft./sec self-cleaning velocity. Sewer line up to 400mm dia has been designed to run half full and above 400mm dia has been designed to run three fourth full at peak flow. Necessary provision for laying S.W/RCC/DWC pipe sewer line, construction of required number of manholes etc., has been made in the estimate.

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

**STORM WATER DRAINAGE**

We are proposing to lay underground R.C.C. pipe drains with required number of catch basins, manholes and rainwater recharge pits with over flow to the Proposed HSVP storm drain on sector Road, to be provided in future. The intensity of rain fall has been taken as 1/4" per hour. R.C.C storm water line will be designed as per Manning's formula.



**SPECIFICATIONS**

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

**ROADS**

Estimate of Road work is prepared as per revised specifications adopted by HSVP.

**STREET LIGHTING**

Provision for streets lights has also been made.

**HORTICULTURE**

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

**DECLARATION**

We will make our own arrangement for water supply, sewerage, drainage till the external infrastructure be available by Haryana Shehari Vikas Pradhikaran ,at a later stage in future.

**RATES**

The estimate has been prepared based on the present market rates

**COST**

The total cost of the scheme, including cost of all services works out to **Rs. 1,37,27,69,728.76**

14517.86 lacs

be  
Includin 3% Contingencies and 49% Departmental Charges

|  |              |             |
|--|--------------|-------------|
| Land area under township to be migrated from licence no.06 of 2010 | 251          | Acre        |
| Net planned area   | 228.53       | Acre        |
| Area under future development                                      | 20.06        | Acre        |
| Area of development as per License                                 | <b>208.5</b> | <b>Acre</b> |

Net Cost Per Acre Rs. ~~65,84,888.09~~  
69.64 lacs

For:

M/S UTTIRNA INFRAPROJECTS PRIVATE LIMITED

Uttirna Infra Projects Pvt.Ltd.

Authorized Signatory

Authorized Signatory



RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES (MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 30,37,38,39 PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| DAILY WATER DEMAND & PUMPING SYSTEM MAP LEFT SIDE OF THE SECTOR ROAD  |   |               |              |                  |                  |                              |                                       |   |  |                                      |
|---|---|---------------|--------------|------------------|------------------|------------------------------|---------------------------------------|---|--|--------------------------------------|
| Sl. No.   | Description                                 | Area In Acres | Nos. of Plot | Population /Plot | Total Population | Water Demand /Persons in LPD | Total Water Demand @ 155 LPD (in LPD) | Domestic Water Demand @ 100LPD (in LPD) | Flushing Water Demand @ 55LPD (in LPD) | Sewage Flow 80% of total Flow in LPD |
| 1   | Plots                                       |               | 427          | 13.5             | 5765             | 155                          | 893575                                | 576500                                  | 317075                                 | 714860                               |
| 2   | Nursing home -4 nos @ 10 KL/nursing home    |               | 4            |                  | 10000            |                              | 40000                                 | 14000                                   | 26000                                  |                                      |
| 3   | Commercial -183 @ 25 KL/Acre                | 1.97          |              |                  |                  |                              | 47550                                 | 17238                                   | 40312                                  | 5432                                 |
| 4   | Club/community center @ 25 KL/Acre          | 2             |              |                  |                  |                              | 50000                                 | 17500                                   | 32500                                  | 39400                                |
| 5   | UD area @ 25 KL/Acre                        | 4.05          |              |                  |                  |                              | 101350                                | 55803                                   | 35466                                  | 40000                                |
| 6   | Dispensary 1.25 Acre : 50 KL/Day            | 1.25          |              |                  |                  |                              | 50000                                 | 17500                                   | 32500                                  | 81000                                |
| 7   | High school 2.0 Acre 150 KL/Day             | 2             |              |                  |                  |                              | 150000                                | 52500                                   | 97500                                  | 120000                               |
| 8   | Primary school 0.5 Acre                     | 0.5           |              |                  |                  |                              | 50000                                 | 17500                                   | 32500                                  | 40000                                |
| 9   | Nursery school 0.2 Acre -2 nos              | 0.4           |              |                  |                  |                              | 20000                                 | 20000                                   | 13000                                  | 16000                                |
| 10  | Taxi stand 2.0 Acre -4nos @ 5 KL/Taxi stand | 2             |              |                  |                  |                              | 20000                                 | 7000                                    | 13000                                  | 16000                                |
| 11  | Irrigation 6.24 Acre @25 KL/ Acre           | 6.722         |              |                  |                  |                              | 168050                                |   | 168050                                 |                                      |
| <b>Total</b>  |   |               |              |                  | 5765             |                              | 1502206                               | 805603                                  | 786603                                 | 1307325                              |
| Total Water Demand  |   |               |              |                  |                  | 1605915                      | 1605915                               | 815701                                  | 791245                                 | 1118292                              |
| Total Domestic Water Demand   |   |               |              |                  |                  | 1502206                      | 1502206                               | 1502206                                 | 1502206                                | 1502206                              |
| Total Flushing Water Demand   |   |               |              |                  |                  | 815701                       | 815701                                | 815701                                  | 815701                                 | 815701                               |
| Total Irrigation Water Demand   |   |               |              |                  |                  | 1605915                      | 1605915                               | 1605915                                 | 1605915                                | 1605915                              |
| Flow To Sewer   |   |               |              |                  |                  | 1118292                      | 1118292                               | 1118292                                 | 1118292                                | 1118292                              |
| Fire Water Tank Cap.  |   |               |              |                  |                  |                              |                                       |   | 160                                    | 160                                  |
| Fire demand = $\frac{2}{3} * (100 * (P \text{ in thousand } )^{1/2}) / 2$<br>= $100 * (16.92)^{1/2} / 2 = 0.33 * 190 = 62.7 \text{ KL only for Underground static Reservoir}$ |   |               |              |                  |                  |                              |                                       |   |  |                                      |
| Raw water tank capacity   |   |               |              |                  |                  |                              |                                       |   |  |                                      |
| Domestic waer tank capacity   |   |               |              |                  |                  |                              |                                       |   | 410                                    | 410                                  |
| Total Underground Water Tank Capacity Proposed  |   |               |              |                  |                  |                              |                                       |   | 410                                    | 410                                  |

Flushing water tank = 623 + 168 = 791 KL @ 60% = 474.6 KL  
say 475 KL







| 3 | Tube well   | Note : Tube well considered since the HSVP water supply is not available as of now. |     |      |              |                |                      |                         |                 |
|---|---|---|-----|------|--------------|----------------|----------------------|-------------------------|-----------------|
|   | i) Approx. discharge of tube well                           |   |     |      |              |                | 25                   | KL/hour                 |                 |
|   | ii) Working hour of the tube well                           |   |     |      |              |                | 18 hrs/day           | KL/day                  |                 |
|   | iii) Total domestic water demand                            |   |     |      |              |                | 806                  | KL/day                  |                 |
|   | iv) Number of tube well required (875/(25X18))              |   |     |      |              |                | 1.8                  | Nos                     |                 |
|   | v) Add 10% as stand-by                                      |   |     |      |              |                | 0.2                  | Nos                     |                 |
|   | vi) Total number of tube well required                      |   |     |      |              |                | 2.0                  | Nos                     |                 |
|   | vii) Number of tube well proposed                           |   |     |      | Say          |                | 3                    | Nos                     |                 |
| 4 | Pumping Machiner for tube well                              |   |     |      |              |                |                      |                         |                 |
|   | i) Gross working head                                       |   |     |      |              |                | 95                   | mtr.                    |                 |
|   | ii) Average fall in S.L.                                    |   |     |      |              |                | 5                    | mtr.                    |                 |
|   | iii) Dispression head                                       |   |     |      |              |                | 5                    | mtr.                    |                 |
|   | iv) Friction loss in main                                   |   |     |      |              |                | 10                   | mtr.                    |                 |
|   | Total Head  |   |     |      |              |                | 115                  | mtr.                    |                 |
| 5 | Tube well pump HP   |   |     |      |              |                |                      |                         |                 |
|   | i) Power Required each pump (Lpm*head (m)/75*60* 0.5(effi)) |   |     |      |              |                | 18.4                 | HP each                 |                 |
| 6 | CAPACITY OF DG SET  |   |     |      |              |                | 20.0                 | HP each                 |                 |
|   |   |   |     |      |              |                |                      |                         |                 |
|   | Equipment Description                                       |   |     |      | No of Pump   |                |                      |                         |                 |
|   | Domestic Water Transfer Pumps                               |   |     |      | Working      | Standby        | Each                 | Total Power Consumption |                 |
|   | Flu. / Irr. Water Transfer Pumps                            |   |     |      | 2            | 1              | 20.0                 | 50.4                    |                 |
|   | Pumping Machiner for tube well                              |   |     |      | 2            | 1              | 20.0                 | 40.0                    |                 |
|   | Street lighting   |   |     |      |              |                | 20.0                 | 40.0                    |                 |
|   | Total HP Required   |   |     |      |              |                |                      | 30.0                    |                 |
|   | DG KVA Required (HP* 746)/0.8                               |   |     |      |              |                |                      | 160                     |                 |
|   | DG Capacity- Say  |   |     |      | 119.26       | 11.50          | 179.04               | 459                     |                 |
| 7 | HSVP Water Supply Line                                      |   |     |      |              |                |                      | 180 kVA                 |                 |
|   | Total Daily Water Demand LPD                                |   |     |      |              |                |                      |                         |                 |
|   | 805603  | HSVP to UGT   | LPM | Flow | Proposed Dia | Length of Line | Frictional Head Loss | Velocity                | Total Head Loss |
|   |   |   | 559 |      | 150          | Mtr.           | Mtr./ Mtr.           | Mtr./Sec.               | Mtr.            |
|   | 814701  |   | 566 |      | 480          | 0.003774877    | 0.6328               | 1.812                   |                 |



RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES (MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39 PANIPAT BEING DEVELOPED BY M/S UTRUNA INFRA PROJECTS PRIVATE LIMITED.

DAILY WATER DEMAND & PUMPING SYSTEM NILP RIGHT SIDE OF THE SECTOR ROAD

| Sl. No.  | Description                                    | Area in Acres | Nos. of Plot | Population /Plot | Total Population | Water Demand /Persons in LPCD | Total Water Demand @ 155 LPCD (in LPD) | Domestic Water Demand @100LPCD (in LPD) | Flushing Water Demand @ 55LPCD (in LPD) | Sewage Flow 80% of total Flow in LPD |
|--|--|---------------|--------------|------------------|------------------|-------------------------------|--|---|---|--------------------------------------|
| <b>NILP LEFT SIDE OF THE SECTOR ROAD</b>                                 |  |               |              |                  |                  |                               |  |   |   |                                      |
| 1  | Plots  |               | 769          | 13.5             | 10382            | 155                           | 1609210                                | 1045987                                 | 563224                                  | 1287368                              |
| 2  | Commercial-2.2.016@ 25 Kl/Acre                 | 2.02          |              |                  |                  |                               | 64644                                  | 35%                                     | 65%                                     |                                      |
| 3  | UD area @ 25 Kl/Acre                           | 4.65          |              |                  |                  |                               | 50500                                  | 207437675                               | 40408                                   | 51317                                |
| 4  | Primary school 0.5 Acre                        | 0.5           |              |                  |                  |                               | 116186                                 | 75566                                   | 40657                                   | 92935                                |
| 5  | Creche school 0.2 Acre -1 nos                  | 0.2           |              |                  |                  |                               | 50000                                  | 17500                                   | 32500                                   | 40000                                |
| 6  | Religious building 0.2 @ 25 Kl/Acre            | 0.20          |              |                  |                  |                               | 5000                                   | 1750                                    | 3250                                    | 4000                                 |
| 7  | Nursery school 0.2 Acre -1 nos                 | 0.2           |              |                  |                  |                               | 10000                                  | 10000                                   |   |                                      |
| 8  | Irrigation 6.24 Acre @25 Kl/ Acre              | 3.608         |              |                  |                  | 25000                         | 90200                                  |   |   |                                      |
| <b>Total</b>   |  |               |              |                  |                  |                               |  |   |   |                                      |
|  | Total Water Demand                             |               |              |                  | 10382            |                               | 1944079                                | 1170635                                 | 770444                                  | 1472703                              |
|  | Total Domestic Water Demand                    |               |              | 1955300          | 1955300          | 1041079                       | 1955300                                | 1183423                                 | 711877                                  | 1494080                              |
|  | Total Flushing Water Demand                    |               |              | 1183423          | 1183423          | 680244                        | 680244                                 | 474                                     | 1937                                    | 1937                                 |
|  | Total Irrigation Water Demand                  |               |              | 681677           | 681677           | 90200                         | 90200                                  | 90                                      | 68                                      | 68                                   |
|  | Flow To Sewer from right side                  |               |              | 1484080          | 1484080          | 1472703                       | 1472703                                | 1472703                                 | 1472703                                 | 1472703                              |
|  | Flow To Sewer from left side                   |               |              | 1183423          | 1183423          | 1480035                       | 1480035                                | 1188                                    | 1188                                    | 1188                                 |
|  | Required Centralized STP capacity              |               |              |                  |                  | 2660738                       | 2660738                                | 2664                                    | 2664                                    | 2664                                 |
|  | Proposed Centralized STP capacity              |               |              |                  |                  | 2602371                       | 2602371                                | 2700                                    | 2700                                    | 2602                                 |
|  | Fire Water Tank Cap.                           |               |              |                  |                  |                               |  |   | 215                                     | 215                                  |
| Fire demand = 2/3 * (100 * (P in thousand)^(1/2)) / Reservior            |  |               |              |                  |                  |                               |  |   |   |                                      |
| = 100 x (16.92)^(1/2) - 0.33 * 190 = 62.7 KL only for Underground static |  |               |              |                  |                  |                               |  |   |   |                                      |
|  | Raw water tank capacity                        |               |              |                  |                  |                               |  |   |   |                                      |
|  | Domestic waer tank capacity                    |               |              |                  |                  |                               |  |   | 325                                     | 590                                  |
|  | Total Underground Water Tank Capacity Proposed |               |              |                  |                  |                               |  |   | 325                                     | 590                                  |
|  |  |               |              |                  |                  |                               |  |   | 1995                                    | 925                                  |



|     |  |  |                 |       |
|-----|--|--|-----------------|-------|
| 1   | Water Transfer Pumpsset (Domestic)                         |  |                 |       |
|     | a)   | Water Pump Capacity  |                 | 118.2 |
|     | i  | Total Domestic Demand per/day                              |                 | 3.174 |
|     | ii   | Pumping working hours/day                                  | 65.72.444       | 6     |
|     | iii  | Required Pumping Capacity Lpm                              | 1695.38         | 2.252 |
|     | iv   | Proposed pump 4 nos with (3W + 1S)                         | @               | 3.626 |
|     |  |  | Say             | 4.850 |
|     |  |  |                 | 1100  |
|     | b)   | Water Pump Head  |                 |       |
|     | i  | Suction lift   |                 | 0     |
|     | ii   | Pump room from ground level                                |                 | 7     |
|     | iii  | Residual Head provided at farthest ferrule                 |                 | 22    |
|     | iv   | Friction Head Loss   |                 | 15    |
|     | v  | Total pump head required                                   |                 | 44    |
| vi  | Total pump head required including Factor of safety @ 10 % |  | 48              |       |
| vii | Proposed Pump head   |  | 50              |       |
| c)  | Pump HP  |  |                 |       |
| i   | Power Required each pump (Lpm*head (m)/75*60* .80(eff))    |  | 26.20.37        |       |
|     |  | Say  | 30.25.0         |       |
| 2   | Flushing / Irr. Water Transfer Pump                        |  |                 |       |
|     | a)   | Flush, water Pump Capacity                                 |                 |       |
|     | i  | Total Flu. / Irr. Demand (l) per/day                       |                 | 770   |
|     | ii   | Pumping working hours/day                                  |                 | 6     |
|     | iii  | Required Pumping Capacity                                  |                 | 2.140 |
|     | iv   | Proposed pump 3 nos with (2W + 1S)                         | @               | 1.070 |
|     |  |  | Say             | 1.100 |
|     | b)   | Flushing water Pump Head                                   |                 |       |
|     | i  | Suction lift   |                 | 0     |
|     | ii   | Pump room from ground level                                |                 | 7     |
|     | iii  | Residual Head provided at farthest ferrule                 |                 | 22    |
|     | iv   | Friction Head Loss   |                 | 25    |
|     | v  | Total pump head required                                   |                 | 54    |
|     | vi   | Total pump head required including Factor of safety @ 10 % |                 | 59    |
| vii | Proposed Pump head   |  | 60              |       |
| c)  | Pump HP  |  |                 |       |
| i   | Power Required each pump (Lpm*head (m)/75*60* .80(eff))    |  | 24.44           |       |
|     |  | Say  | 28.25.0         |       |
|     |  |  | HP of each pump |       |



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(Amount ₹ in lacs)

FINAL ABSTRACT OF COST

| Description                               | Total of sub work     | 3% Contingencies   | TOTAL               | 49% departmental    | Grand Total           |
|---|-----------------------|--------------------|---------------------|---------------------|-----------------------|
| Sub Work-1                                | 97040400              | 2912332            | 99952732            | 48976290            | 148927902             |
| Water Supply                              | 8,20,00,000           | 24,24,77           | 8,44,24,77          | 4,00,00,130         | 14,80,78,791          |
| Sub Work-2                                | 809.72                | 24.29              | 834.01              | 408.66              | 1242.67               |
| Sewerage                                  | 17,30,79,860          | 51,92,594          | 17,82,72,194        | 8,73,53,375         | 26,56,25,569          |
| Sub Work-3                                | 1694.97               | 50.82              | 1744.99             | 855.05              | 2600.04               |
| Drainage                                  | 10,71,50,799          | 32,14,524          | 11,03,65,323        | 5,40,79,098         | 16,44,44,331          |
| Sub Work-4                                | 2209.78               | 66.29              | 2276.07             | 1115.27             | 3391.34               |
| Road Works                                | 17,59,80,709          | 52,79,424          | 18,12,60,130        | 8,88,17,494         | 27,00,77,594          |
| Sub Work-5                                | 521.18                | 15.64              | 536.82              | 263.04              | 799.86                |
| Street Lighting                           | 5,21,18,180           | 15,63,540          | 5,36,81,730         | 2,63,04,043         | 7,99,85,773           |
| Sub Work-6                                | 65.17                 | 1.96               | 67.13               | 32.89               | 100.02                |
| Plantation & Road side Trees/Horticulture | 61,69,500             | 18,60,85           | 63,50,385           | 3,11,374.7          | 94,68,222             |
| Sub Work-7                                | 3134.96               | 94.05              | 3229.01             | 1582.21             | 4811.22               |
| MTC Charge and Resurfacing of Road        | 294423287.90          | 8832699            | 303255986           | 148599483           | 451857419             |
| TOTALS                                    | Rs. 89,44,82,245.25   | Rs. 2,68,34,620.35 | Rs. 92,13,21,905.01 | Rs. 45,14,47,753.75 | Rs. 1,32,27,69,720.76 |
| Amount                                    | Rs. 1,32,27,69,720.76 | Rs. 2,68,34,620.35 | Rs. 92,13,21,905.01 | Rs. 45,14,47,753.75 | Rs. 1,32,27,69,720.76 |
| Area of development as per license        | 208.4728 Acre         | 251.90625 Acre     |                     |                     |                       |

Net Cost Per Acre  $\frac{14517.86 \text{ lacs}}{208.47 \text{ Acre}} = 69.64 \text{ lacs}$

For: M/S UTTIRNA INFRAPROJECTS PRIVATE LIMITED

Uttirna Infra Projects Pvt.Ltd.  
Authorized Signatory *Panchkula*  
Authorised Signatory

Checked subject to Comments  
In forwarding letter No. 52380  
Dtd 10/02/2024.....and notes  
Attached with the estimate

*[Signature]*  
Executive Engineer (M)  
for Chief Engineer-II  
HSVP, Panchkula

*[Signature]*  
Director  
Town & Country Planning  
Haryana, Chandigarh

Superintending Engineer  
HSVP Circle, KARNAL

EXECUTIVE ENGINEER  
H.S.V.P. DIVISION, PANIPAT





हरियाणा शहरी विकास प्राधिकरण

HARYANA SHEHARI  
VIKAS PRADHIKARAN

Tel. : 2570982  
Toll Free No. : 1800-180-3030  
Website : www.hsvp.in  
Email : cencrhuda@gmail.com

Address: C-3, HSVP, HQ Sector-6  
Panchkula

C.E.II-No. 52380  
Dated: 25/02/2024  
Annexure-A

**SUB:- Approval of Service Plan Estimate for providing water supply, sewerage, storm water drainage, construction of roads, street lightning and Hort. Works etc. in the Residential Integrated Township (under NILP-2022) measuring area 251.90 acres (migrated from licence no. 6 of 2010 dated 14.10.2010 of 314.08 acres) in Village Kabri and Panipat Taraf Insar, Sector-36,37,38 & 39 Distt. Panipat being developed by M/s Uttirna Infraprojects Pvt. Ltd. (Licence no. 257 of 2023 dated 29.11.2023).**

**Technical note and comments:-**

1. All detailed working drawings would have to be prepared by the colonizer for Integrating the internal services proposals with the master proposals of town.
2. The correctness of the levels will be the sole, responsibility of the colonizer for the integration of internal proposals, with the master proposals, of town and will be got confirmed before execution.
3. The material to be used shall the same specifications as are being adopted by HSVP and further shall also confirm to such directions, as issued by Chief Engineer, HSVP from time to time.
4. The work shall be carried out according to Haryana PWD specification or such specifications as are being followed by HSVP. Further it shall also confirm to such other directions, as are issued by Chief Engineer, HSVP from time to time.
5. The colonizer will be fully responsible to meet the demand of water supply and allied services till such time these are made available by State Government/ HSVP. All link connections with the State Government/ HSVP system and services will be done by the colonizer. If necessary extra tube-wells shall also be installed to meet extra demand of water beyond the provision according to EDC deposited.
6. Structural design & drawings of all the structures, such as pump chamber, boosting chamber, RCC OHSR underground tanks quarters, manholes chamber, sections of RCC pipes sewer and SW pipes, sewer, ventilating shafts for sewerage and Masonry Ventilation Chamber for Chamber for storm water drainage, temporary disposal/ arrangement etc. will be as per relevant I.S codes and PWD specifications; colonizer himself will be responsible for structural stability of all structures.
7. Potability of water will be checked and confirmed and the tube-wells will be put into operation after getting chemical analysis of water tested.
8. Only C.I/D.I pipes will be used in water supply and flushing system, UPVC/HDPE pipe for irrigation purposes.

P.T.O.



हरियाणा शहरी विकास प्राधिकरण  
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Panchkula

9. A minimum 100 i/d C.I/D.I, 200mm i/d SW and 400mm id RCC NP-3 pipes will be used for water supply, sewerage and storm water drainage respectively.
10. Standard X-section for S.W. pipes sewer, RCC pipes sewer etc. will be followed as are being adopted in Haryana Public Health Engineering Deptt. or HSVP. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
11. The X-section, width of roads, will be followed as approved by the Chief Town Planner, Haryana, Chandigarh. The kerbs and channels will also be provided as per approved X-section and specifications. If needed, the same may be sought by the colonizer from concerned Executive Engineer of HSVP.
12. The specifications for various roads will be followed as per IRC/MORTH specifications.
13. The wiring system of street lighting and specifications of street lighting fixture will be as per relevant standards.
14. This shall confirm to such other conditions as are incorporated in the approved estimate and the letter of approval.

  
Executive Engineer (M),  
For Chief Engineer-II, HSVP,  
Panchkula. 

## SUB WORK No. 1

## WATER SUPPLY

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.08 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No. | Heads      | Description                          | Amount                              |
|-------|------------|--------------------------------------|-------------------------------------|
| 1     | Sub Head 1 | Head works<br>Tube-well works        | 252.06 lakhs<br>Rs. 2,04,66,660.00  |
| 2     | Sub Head 2 | fixing main<br>HSVP Water Connection | 27.76 lakhs<br>Rs. 26,88,600.00     |
| 3     | Sub Head 3 | Pumping and machinery                | 118.50 lakhs<br>Rs. 2,52,62,500.00  |
| 4     | Sub Head 4 | Domestic Water supply (Distribution) | 331.79 lakhs<br>Rs. 2,67,72,600.00  |
| 5     | Sub Head 5 | Flushing/Irrigation System           | 294.66 lakhs<br>Rs. 2,24,21,240.00  |
| TOTAL |            |                                      | 1024.77 lakhs<br>Rs. 9,70,00,400.00 |



SUB WORK No. 1

WATER SUPPLY

| S No.  | Description   | Amount                         |
|--|---|--------------------------------|
| Sub Head 1   |   | Head works Tubewell head works |
| RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES (MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39 PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED. |   |                                |
| A  | Tube well works   |                                |
| 1  | Boring and installing of deep tube wells 300x200 upto 300 mtr. Depth Complete all respect.  | 45.00 lacs                     |
| a)   | 3 Nos. @ Rs. 23,00,000 15.00 lacs   | Rs. 1,61,00,000.00             |
| 2  | Provision for rising mains, connection borewells with water main and Bye-pass arrangements. |                                |
| a)   | 90-OD 493 M @ Rs. 1,090   | Rs. 4,93,000.00                |
| b)   | 110-OD 351 M @ Rs. 1,480  | Rs. 5,12,400.00                |
| c)   | 150 OD 367 272 M @ Rs. 1,800 2040/-   | Rs. 4,99,600.00 7.49           |
| d)   | 200 OD 5 M @ Rs. 2,300  | Rs. 11,500.00 13500            |
| 3  | Providing Tubewell submersible Pumps Capacity 25000 lph @115M head                          | 12.00                          |
| a)   | 3 Nos. @ Rs. 4,00,000 each  | Rs. 21,00,000.00               |
| 4  | Provision for construction of Tube well chambers of Size 1.5x1.5x1.5 m for tubewell         | 3.00                           |
| a)   | 3 Nos. @ Rs. 1,00,000 each  | Rs. 5,60,000.00                |
| 5  | Prov. for shaft caps for mtr. shaft (L/S) 3 Nos.  | 5 25.00 lacs                   |
| 6  | Provision for carriage for materials and other unforeseen items (L/S)                       | Rs. 2,00,000.00                |
| Total of Sub Head 1 Carried over to summary of Sub work - 1  |   | 157.43 lacs                    |
|  |   | Rs. 2,04,66,560.00             |

Material statement For TUBE WELL Line

| S.No. | Node     | Dia(mm) | Length (M) |
|-------|----------|---------|------------|
| 1     | TW1-TW2  | 90      | 130        |
| 2     | TW2-TW3  | 110     | 184        |
| 3     | TW3-T1   | 150     | 147        |
| 4     | TW4-T1   | 90      | 95         |
| 5     | T1-TANK  | 200     | 5          |
| 6     | TW5-TW6  | 90      | 268        |
| 7     | TW6-TW7  | 110     | 170        |
| 8     | TW7-TANK | 150     | 125        |

150 mm @ T.W line = 147 + 95 + 125 = 367 mtr  
 200 mm @ T.W line = 5 mtr

- 7) Prov for boundary wall around the T.W site
- i) Water works 2 nos (L/S) \$ 4.00 lacs
  - T.W. 3 Nos (L/S) \$ 3.00 lacs
- 8) Prov. for football grounds and lawn at T.W. (L/S) \$ 3.00 lacs
- 9) i) Const of boosting chamber of suitable size along with 2 nos U.G.T. of capacity 500 + 160 KL (left side) and 710 + 215 KL (in right side) = 1585 KL @ 5500/LA \$ 87.18 lacs
- ii) Const. of boosting chamber 2 no (L/S) \$ 52.25 lacs
- 10) Flushing water tank 950 KL @ 5500/KL \$ 52.25 lacs
- Rs. 157.43 lacs



SUB WORK No. 1

WATER SUPPLY

| Sub Head 2   |  | HSVP Water Supply Distribution System   |  |
|--|--|---|--|
| RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES (MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39 PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED. |  |   |  |
| S No.  | Description  | Amount                                  |  |
| A  | HSVP Rising Main   |   |  |
| 1  | Providing, laying, jointing and testing DI pipe lines including cost of excavation etc. complete in all respects.                          |   |  |
| a)   | 150 mm dia pipe 1050 Mtr. @ Rs. 2,040  | Rs. 21,42,000.00                        |  |
| 2  | Providing and fixing sluice valve and air release valve including cost of surface boxes and masonry chambers etc. complete in all respects |   |  |
| a)   | 150 mm dia 2 Nos. @ Rs. 15,750 15000   | Rs. 34,500.00                           |  |
| 3  | Providing and fixing indicating plates for sluice valve and air valves   |   |  |
| a)   | 2 Nos. @ Rs. 6,000 each  | Rs. 12,000.00                           |  |
| 4  | Provision for carriage for materials and other unforeseen items (L/S)  | Rs. 1,00,000.00                         |  |
| 5  | Provision for cutting of roads and making good to its original conditions ( L/S)   | Rs. 1,00,000.00                         |  |
| 6  | Provision for making connection with HSVP water main (L/S)   |   |  |
|  | 2 Nos. @ Rs. 1,00,000  | Rs. 2,00,000.00                         |  |
| Total of Sub Head 2  |  | Carried over to summary of Sub work - 1 |  |
|  |  | Rs. 26,84,500.00                        |  |

## Material statement For HSVP Line

| S.No. | Node        | Dia(mm) | Length (M) |
|-------|-------------|---------|------------|
| 1     | HSVP-Tank 1 | 150     | 480        |
| 1     | HSVP-Tank 2 | 150     | 570        |

1050 mh



SUB WORK No. 1

WATER SUPPLY

Sub Head 3

Pumping and machinery

LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39 PANIPAT BEING DEVELOPED BY M/S  
UTTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No.   | Description   | Amount                    |
|---------|---|---------------------------|
| 1       | Providing & installing pumping set of following capacity for Domestic Supply  |                           |
| 25MP a) | Capacity 1150LPM each pumps @ 50 mtr. (2+1) 3 Nos. @ Rs. 5,00,000.00 each.  | Rs. 15,00,000.00 ✓        |
| a)      | Capacity 1650 LPM each pumps @ 50 mtr. (3+1) 4 Nos. @ Rs. 5,00,000.00 each.   | Rs. 20,00,000.00 ✓        |
| 2       | Providing & installing pumping set of following capacity for Flushing/Irrigation Pumps                                | 20.00 ✓                   |
| 25MP a) | Capacity 1100 LPM each pumps @ 55 mtr. (2+1) 3 Nos. @ Rs. 5,00,000.00 each.   | Rs. 15,00,000.00          |
| b)      | Capacity 1100 LPM each pumps @ 60 mtr. (2+1) 3 Nos. @ Rs. 5,00,000.00 each.   | Rs. 15,00,000.00 15.00    |
|         | <i>cheap pressure type</i>  |                           |
| 3       | Provisions for chlorination plant complete 5 Nos @ Rs. 60,000.00 each   | Rs. 3,00,000.00           |
| 4       | Provision for making foundations and erection of pumping machinery<br>4 Set @ Rs. 50,000.00 (L.S)                     | Rs. 2,00,000.00           |
| 5       | Provision for pipes, valves and specials inside the boosting chamber<br>4 Set @ Rs. 25,000.00                         | Rs. 1,00,000.00           |
| 6       | Provision for Gen Set.<br>230 300-KVA @ Rs. 19,000.00 per KVA   | Rs. 5,70,000.00           |
| 7       | Provision for Plumbing Plant Room and underground water Tank complete in all respect<br>2375 KL @ Rs. 5,800.00 per KL | Rs. 1,38,50,000.00 34.50  |
| 7       | Provision for carriage of material and other unforeseen items etc. L/S  | Rs. 3,00,000.00           |
|         | <b>Sub Head 3 TOTAL COST TO SUB WORK - 1</b>  | <b>Rs. 2,52,63,500.00</b> |

8 Provision for electric service connection incl. electric fitting for T.W.S chamber complete including cost of transformer 2 Nos (L.S)

Rs 5.00 lacs  
Rs 118.50 lacs



SUB WORK No. 1

WATER SUPPLY

Sub Head 4

Domestic Water supply

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No                     | Description   | Amount                        |
|--------------------------|---|-------------------------------|
| 1                        | Providing, laying, jointing and testing HDPE pipe lines including fittings, valves, cost of excavation etc. complete in all respects. | 2,20,80                       |
| a)                       | 100 mm Pipe 1514 10925 Mtr @ Rs. 1,460 per Mtr  | Rs. 1,59,60,600               |
| b)                       | 150 mm Pipe 2747 Mtr @ Rs. 1,800 per Mtr 20410  | Rs. 49,44,600 56.04           |
| c)                       | 200 mm Pipe 1427 Mtr @ Rs. 2,500 per Mtr  | Rs. 35,87,500 38.53           |
| d)                       | 300 mm Pipe 24 Mtr @ Rs. 3,000 per Mtr  | Rs. 72,000                    |
| 2                        | Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.                 | 1.80 lak                      |
| a)                       | 100 mm 15 Each @ Rs. 15,000   | Rs. 2,25,000                  |
| b)                       | 150 mm 3 Each @ Rs. 20,000 15000  | 0.45 Rs. 60,000               |
| c)                       | 200 mm 7 Each @ Rs. 25,000  | 1.40 Rs. 1,75,000             |
| d)                       | 250 mm 1 Each @ Rs. 30,000  | 0.25 Rs. 30,000               |
| 3                        | Providing and fixing External Fire Hydrants including chamber<br>20 Nos @ Rs. 15,000  | Rs. 3,00,000                  |
| 4                        | Providing and fixing air release valve and scour valve<br>8 Nos @ Rs. 6,000   | 0.80 Rs. 48,000               |
| 5                        | Indication plate for valves, hydrant AV etc. (L-3)  | Rs. 3,00,000                  |
| 6                        | Provision for carriage of materials and other unforeseen items (L-2)  | Rs. 5,00,000                  |
| TOTAL CO to SUB WORK - 1 |   | Rs. 2,64,72,600.00 331.79 lak |



| DOMESTIC MATERIAL SHEET |      |        |                          |      |     |     |     |   |
|-------------------------|------|--------|--------------------------|------|-----|-----|-----|---|
| Sl. No.                 | Node | Length | Proposed pipe dia in MM. | 100  | 150 | 200 | 250 |   |
|                         |      |        |                          | mm   | mm  | mm  | mm  |   |
| NILP LEFT SIDE          |      |        |                          |      |     |     |     |   |
| 1                       | W1   | W2     | 208                      | 200  | 0   | 0   | 208 | 0 |
| 2                       | W2   | W8     | 64                       | 200  | 0   | 0   | 64  | 0 |
| 3                       | W2   | W5     | 118                      | 100  | 118 | 0   | 0   | 0 |
| 4                       | W5   | W6     | 53                       | 100  | 53  | 0   | 0   | 0 |
| 5                       | W5   | W7     | 113                      | 100  | 113 | 0   | 0   | 0 |
| 6                       | W8   | W9     | 31                       | 150  | 0   | 31  | 0   | 0 |
| 7                       | W8   | W21    | 169                      | 150  | 0   | 169 | 0   | 0 |
| 8                       | W9   | W11    | 73                       | 150  | 0   | 73  | 0   | 0 |
| 9                       | W9   | W20    | 169                      | 100  | 169 | 0   | 0   | 0 |
| 10                      | W11  | W12    | 63                       | 150  | 0   | 63  | 0   | 0 |
| 11                      | W11  | W18    | 169                      | 100  | 169 | 0   | 0   | 0 |
| 12                      | W12  | W13    | 32                       | 150  | 0   | 32  | 0   | 0 |
| 13                      | W12  | W17    | 169                      | 100  | 169 | 0   | 0   | 0 |
| 14                      | W13  | W14    | 64                       | 150  | 0   | 64  | 0   | 0 |
| 15                      | W13  | W16    | 169                      | 100  | 169 | 0   | 0   | 0 |
| 16                      | W14  | W15    | 169                      | 150  | 0   | 169 | 0   | 0 |
| 17                      | W14  | W39    | 19                       | 150  | 0   | 19  | 0   | 0 |
| 18                      | W15  | W16    | 66                       | 100  | 66  | 0   | 0   | 0 |
| 19                      | W15  | W28    | 74                       | 150  | 0   | 74  | 0   | 0 |
| 20                      | W16  | W17    | 33                       | 100  | 33  | 0   | 0   | 0 |
| 21                      | W17  | W18    | 63                       | 100  | 63  | 0   | 0   | 0 |
| 22                      | W18  | W20    | 73                       | 100  | 73  | 0   | 0   | 0 |
| 23                      | W20  | W21    | 31                       | 100  | 31  | 0   | 0   | 0 |
| 24                      | W21  | W22    | 74                       | 150  | 0   | 74  | 0   | 0 |
| 25                      | W22  | W25    | 200                      | 150  | 0   | 200 | 0   | 0 |
| 26                      | W25  | W26    | 181                      | 100  | 181 | 0   | 0   | 0 |
| 27                      | W25  | W28    | 64                       | 150  | 0   | 64  | 0   | 0 |
| 28                      | W28  | W29    | 406                      | 150  | 0   | 406 | 0   | 0 |
| 29                      | W29  | W30    | 66                       | 100  | 66  | 0   | 0   | 0 |
| 30                      | W29  | W35    | 172                      | 150  | 0   | 172 | 0   | 0 |
| 31                      | W30  | W31    | 21                       | 110  | 21  | 0   | 0   | 0 |
| 32                      | W30  | W36    | 172                      | 100  | 172 | 0   | 0   | 0 |
| 33                      | W31  | W32    | 26                       | 100  | 26  | 0   | 0   | 0 |
| 34                      | W31  | W33    | 394                      | 100  | 394 | 0   | 0   | 0 |
| 35                      | W32  | W33    | 6                        | 100  | 6   | 0   | 0   | 0 |
| 36                      | W32  | W38    | 162                      | 100  | 162 | 0   | 0   | 0 |
| 37                      | W33  | W34    | 90                       | 100  | 90  | 0   | 0   | 0 |
| 38                      | W35  | W36    | 67                       | 100  | 67  | 0   | 0   | 0 |
| 39                      | W35  | W39    | 104                      | 150  | 0   | 104 | 0   | 0 |
| 40                      | W36  | W37    | 20                       | 100  | 20  | 0   | 0   | 0 |
| 41                      | W37  | W38    | 28                       | 100  | 28  | 0   | 0   | 0 |
| 42                      | W37  | W41    | 442                      | 100  | 442 | 0   | 0   | 0 |
| 43                      | W38  | W43    | 447                      | 100  | 447 | 0   | 0   | 0 |
| 44                      | W39  | W40    | 338                      | 100  | 338 | 0   | 0   | 0 |
| 45                      | W40  | W41    | 86                       | 100  | 86  | 0   | 0   | 0 |
| 46                      | W40  | W47    | 263                      | 100  | 263 | 0   | 0   | 0 |
| 47                      | W41  | W42    | 88                       | 100  | 88  | 0   | 0   | 0 |
| 48                      | W41  | W43    | 33                       | 100  | 33  | 0   | 0   | 0 |
| 49                      | W42  | W43    | 55                       | 100  | 55  | 0   | 0   | 0 |
| 50                      | W43  | W45    | 294                      | 100  | 294 | 0   | 0   | 0 |
| 51                      | W45  | W46    | 148                      | 100  | 148 | 0   | 0   | 0 |
| 52                      | W47  | W48    | 121                      | 100  | 121 | 0   | 0   | 0 |
| 53                      | W47  | W49    | 33                       | 100  | 33  | 0   | 0   | 0 |
| 54                      | W48  | W49    | 75                       | 100  | 75  | 0   | 0   | 0 |
| TOTAL LENGTH In mtr     |      | 6868   | 4882                     | 1734 | 172 | 0   | 0   | 0 |



| NILP RIGHT SIDE |     |     |     |       |       |       |       |    |
|-----------------|-----|-----|-----|-------|-------|-------|-------|----|
|                 |     |     |     | 160mm | 150mm | 200mm | 200mm |    |
| 1               | W1  | W2  | 6   | 300   | 0     | 0     | 0     | 6  |
| 2               | W2  | W3  | 22  | 100   | 22    | 0     | 0     | 0  |
| 3               | W2  | W10 | 11  | 300   | 0     | 0     | 0     | 11 |
| 4               | W3  | W5  | 75  | 100   | 75    | 0     | 0     | 0  |
| 5               | W3  | W4  | 140 | 100   | 140   | 0     | 0     | 0  |
| 6               | W4  | W11 | 32  | 100   | 32    | 0     | 0     | 0  |
| 7               | W5  | W6  | 162 | 100   | 162   | 0     | 0     | 0  |
| 8               | W5  | W7  | 32  | 100   | 32    | 0     | 0     | 0  |
| 9               | W6  | W8  | 32  | 100   | 32    | 0     | 0     | 0  |
| 10              | W7  | W8  | 173 | 100   | 173   | 0     | 0     | 0  |
| 11              | W7  | W9  | 21  | 100   | 21    | 0     | 0     | 0  |
| 12              | W10 | W11 | 140 | 100   | 140   | 0     | 0     | 0  |
| 13              | W10 | W12 | 7   | 300   | 0     | 0     | 0     | 7  |
| 14              | W12 | W13 | 149 | 200   | 0     | 0     | 149   | 0  |
| 15              | W12 | W27 | 64  | 200   | 0     | 0     | 64    | 0  |
| 16              | W13 | W14 | 20  | 200   | 0     | 0     | 20    | 0  |
| 17              | W14 | W15 | 68  | 100   | 68    | 0     | 0     | 0  |
| 18              | W14 | W70 | 385 | 200   | 0     | 0     | 385   | 0  |
| 19              | W15 | W16 | 157 | 100   | 157   | 0     | 0     | 0  |
| 20              | W15 | W21 | 64  | 100   | 64    | 0     | 0     | 0  |
| 21              | W21 | W22 | 70  | 100   | 70    | 0     | 0     | 0  |
| 22              | W21 | W26 | 155 | 100   | 155   | 0     | 0     | 0  |
| 23              | W22 | W24 | 186 | 100   | 186   | 0     | 0     | 0  |
| 24              | W22 | W25 | 103 | 100   | 103   | 0     | 0     | 0  |
| 25              | W25 | W26 | 322 | 100   | 322   | 0     | 0     | 0  |
| 26              | W27 | W28 | 297 | 100   | 297   | 0     | 0     | 0  |
| 27              | W27 | W29 | 30  | 200   | 0     | 0     | 10    | 0  |
| 28              | W28 | W29 | 277 | 100   | 277   | 0     | 0     | 0  |
| 29              | W29 | W30 | 63  | 200   | 0     | 0     | 63    | 0  |
| 30              | W30 | W32 | 82  | 150   | 0     | 82    | 0     | 0  |
| 31              | W30 | W56 | 220 | 200   | 0     | 0     | 220   | 0  |
| 32              | W32 | W33 | 74  | 150   | 0     | 74    | 0     | 0  |
| 33              | W32 | W44 | 220 | 100   | 220   | 0     | 0     | 0  |
| 34              | W33 | W34 | 33  | 150   | 0     | 33    | 0     | 0  |
| 35              | W33 | W43 | 220 | 100   | 220   | 0     | 0     | 0  |
| 36              | W34 | W35 | 78  | 150   | 0     | 78    | 0     | 0  |
| 37              | W34 | W42 | 220 | 100   | 220   | 0     | 0     | 0  |
| 38              | W35 | W36 | 62  | 150   | 0     | 62    | 0     | 0  |
| 39              | W35 | W41 | 220 | 100   | 220   | 0     | 0     | 0  |
| 40              | W36 | W37 | 87  | 150   | 0     | 87    | 0     | 0  |
| 41              | W36 | W40 | 190 | 100   | 190   | 0     | 0     | 0  |
| 42              | W37 | W38 | 190 | 150   | 0     | 190   | 0     | 0  |
| 43              | W38 | W54 | 127 | 100   | 127   | 0     | 0     | 0  |
| 44              | W38 | W40 | 87  | 150   | 0     | 87    | 0     | 0  |
| 45              | W40 | W41 | 28  | 150   | 0     | 28    | 0     | 0  |
| 46              | W40 | W52 | 127 | 100   | 127   | 0     | 0     | 0  |
| 47              | W41 | W42 | 78  | 150   | 0     | 78    | 0     | 0  |
| 48              | W41 | W51 | 127 | 100   | 127   | 0     | 0     | 0  |
| 49              | W42 | W43 | 33  | 150   | 0     | 33    | 0     | 0  |
| 50              | W42 | W50 | 127 | 100   | 127   | 0     | 0     | 0  |
| 51              | W43 | W44 | 74  | 150   | 0     | 74    | 0     | 0  |
| 52              | W43 | W49 | 127 | 100   | 127   | 0     | 0     | 0  |
| 53              | W44 | W48 | 127 | 150   | 0     | 127   | 0     | 0  |
| 54              | W44 | W56 | 82  | 100   | 82    | 0     | 0     | 0  |
| 55              | W47 | W48 | 20  | 100   | 20    | 0     | 0     | 0  |
| 56              | W48 | W49 | 74  | 100   | 74    | 0     | 0     | 0  |
| 57              | W49 | W50 | 33  | 100   | 33    | 0     | 0     | 0  |
| 58              | W50 | W51 | 78  | 100   | 78    | 0     | 0     | 0  |
| 59              | W51 | W52 | 32  | 100   | 32    | 0     | 0     | 0  |
| 60              | W52 | W54 | 86  | 100   | 86    | 0     | 0     | 0  |



|                      |     |     |      | 100mm | 150mm | 200mm | 300mm |
|----------------------|-----|-----|------|-------|-------|-------|-------|
| 61                   | W54 | W55 | 40   | 100   | 40    | 0     | 0     |
| 62                   | W56 | W57 | 148  | 200   | 0     | 0     | 148   |
| 63                   | W57 | W58 | 44   | 100   | 44    | 0     | 0     |
| 64                   | W57 | W67 | 44   | 200   | 0     | 0     | 44    |
| 65                   | W58 | W59 | 78   | 100   | 78    | 0     | 0     |
| 66                   | W58 | W62 | 52   | 100   | 52    | 0     | 0     |
| 67                   | W62 | W66 | 187  | 100   | 187   | 0     | 0     |
| 68                   | W62 | W63 | 202  | 100   | 202   | 0     | 0     |
| 69                   | W66 | W67 | 238  | 100   | 238   | 0     | 0     |
| 70                   | W66 | W87 | 52   | 100   | 52    | 0     | 0     |
| 71                   | W67 | W70 | 52   | 200   | 0     | 0     | 52    |
| 72                   | W70 | W71 | 39   | 100   | 39    | 0     | 0     |
| 73                   | W71 | W72 | 69   | 100   | 69    | 0     | 0     |
| 74                   | W71 | W75 | 49   | 100   | 49    | 0     | 0     |
| 75                   | W75 | W76 | 69   | 100   | 69    | 0     | 0     |
| 76                   | W75 | W79 | 48   | 100   | 48    | 0     | 0     |
| 77                   | W79 | W80 | 85   | 100   | 85    | 0     | 0     |
| 78                   | W79 | W83 | 48   | 100   | 48    | 0     | 0     |
| 79                   | W83 | W84 | 52   | 100   | 52    | 0     | 0     |
| 80                   | W83 | W87 | 53   | 100   | 53    | 0     | 0     |
| TOTAL LENGTH in mtr. |     |     | 8255 | 6043  | 1033  | 1155  | 24    |

Grand total 50123m

10925m 2747m

1427m 24m





RESIDENTIAL INTEGRATED COMPOUND AREA 64.10001 OVER AN AREA MEASURING 251.2000 ACRES (MARKED FROM LICENSE NO. 26 OF 2019 DATED 14.10.2016 OF 214.3 ACRES) AT SECTION 26.37.30 IN PAMPAT BOUND DEVELOPED BY M/S UFFIANA 80PNA PROJECTS PRIVATE LIMITED.

| Sl. No. | Node | Node | Total Population @Average 11.5 Persons/Plot | Water Demand @120 LPCD in KLD | Others building demand in KLD | Others building demand @15% of demand in KLD | Total water demand in KLD | Peak water demand in KLD | Peak Demand in LPM | Length | Proposed pipe dia in MM | Velocity in m/sec | Frictional head loss in Mtr./Mtr. | Friction at head loss in Mtr./Mtr. | Cumulative frictional head loss | Min. Head in Mtr. at end | Remarks: pump head to 50 mtr. Head above = 7 mtr. |
|---------|------|------|---|-------------------------------|-------------------------------|--|---------------------------|--------------------------|--------------------|--------|-------------------------|-------------------|-----------------------------------|------------------------------------|---------------------------------|--------------------------|---|
|         |      |      |   |                               |                               |  |                           |                          |                    |        |                         |                   |                                   |                                    |                                 |                          |   |
| 1       | W1   | W2   | 35  | 67                            |                               |  | 42                        | 710                      | 2687               | 218    | 300                     | 1.107             | 0.005                             | 1.113                              | 1.113                           | 41.807                   |   |
| 2       | W2   | W6   | 0   | 0                             |                               |  | 0                         | 435                      | 435                | 62     | 300                     | 0.641             | 0.002                             | 0.125                              | 1.238                           | 41.762                   |   |
| 3       | W2   | W5   | 27  | 3                             |                               |  | 5                         | 43                       | 46                 | 118    | 300                     | 0.269             | 0.001                             | 0.293                              | 1.541                           | 41.605                   |   |
| 4       | W5   | W6   | 2   | 3                             |                               |  | 0                         | 24                       | 46                 | 53     | 300                     | 0.146             | 0.000                             | 0.146                              | 1.265                           | 41.641                   |   |
| 5       | W5   | W7   | 0   | 0                             |                               |  | 29                        | 0                        | 51                 | 113    | 300                     | 0.113             | 0.000                             | 0.113                              | 1.375                           | 41.625                   |   |
| 6       | W6   | W7   | 0   | 0                             |                               |  | 0                         | 190                      | 190                | 33     | 150                     | 1.053             | 0.008                             | 0.300                              | 1.574                           | 41.426                   |   |
| 7       | W6   | W1   | 10  | 22                            |                               |  | 22                        | 22                       | 40                 | 169    | 150                     | 0.957             | 0.006                             | 0.605                              | 1.569                           | 41.420                   |   |
| 8       | W6   | W11  | 0   | 0                             |                               |  | 368                       | 368                      | 61                 | 1023   | 73                      | 1.000             | 0.004                             | 0.423                              | 2.033                           | 40.907                   |   |
| 9       | W6   | W10  | 15  | 20                            |                               |  | 30                        | 0                        | 54                 | 169    | 100                     | 0.219             | 0.001                             | 0.033                              | 1.636                           | 40.903                   |   |
| 10      | W11  | W13  | 0   | 0                             |                               |  | 348                       | 348                      | 86                 | 860    | 100                     | 0.911             | 0.005                             | 0.329                              | 1.964                           | 40.636                   |   |
| 11      | W11  | W18  | 15  | 20                            |                               |  | 20                        | 20                       | 54                 | 169    | 100                     | 0.119             | 0.000                             | 0.033                              | 2.000                           | 40.603                   |   |
| 12      | W11  | W15  | 0   | 0                             |                               |  | 328                       | 328                      | 55                 | 910    | 51                      | 1.000             | 0.005                             | 0.149                              | 1.546                           | 40.454                   |   |
| 13      | W12  | W17  | 35  | 20                            |                               |  | 20                        | 0                        | 54                 | 169    | 100                     | 0.068             | 0.001                             | 0.033                              | 2.579                           | 40.421                   |   |
| 14      | W13  | W14  | 0   | 0                             |                               |  | 0                         | 267                      | 267                | 84     | 150                     | 0.805             | 0.004                             | 0.344                              | 2.845                           | 40.335                   |   |
| 15      | W13  | W15  | 15  | 10                            |                               |  | 20                        | 0                        | 56                 | 169    | 100                     | 0.319             | 0.002                             | 0.033                              | 2.878                           | 40.312                   |   |
| 16      | W14  | W15  | 15  | 10                            |                               |  | 20                        | 231                      | 244                | 169    | 150                     | 0.725             | 0.003                             | 0.445                              | 3.344                           | 39.556                   |   |
| 17      | W14  | W19  | 0   | 0                             |                               |  | 0                         | 14                       | 94                 | 94     | 150                     | 0.580             | 0.003                             | 0.163                              | 3.444                           | 39.556                   |   |
| 18      | W15  | W16  | 0   | 0                             |                               |  | 0                         | 72                       | 209                | 66     | 150                     | 1.405             | 0.021                             | 1.180                              | 4.634                           | 18.178                   |   |
| 19      | W15  | W18  | 0   | 0                             |                               |  | 0                         | 23                       | 99                 | 24     | 150                     | 0.187             | 0.000                             | 0.031                              | 4.865                           | 18.155                   |   |
| 20      | W16  | W17  | 0   | 0                             |                               |  | 0                         | 341                      | 341                | 33     | 150                     | 3.465             | 0.020                             | 0.050                              | 5.404                           | 27.506                   |   |
| 21      | W17  | W16  | 0   | 0                             |                               |  | 0                         | 253                      | 253                | 63     | 150                     | 1.421             | 0.010                             | 1.262                              | 6.667                           | 16.841                   |   |
| 22      | W18  | W10  | 7   | 0                             |                               |  | 0                         | 224                      | 224                | 63     | 300                     | 1.421             | 0.016                             | 1.308                              | 8.005                           | 34.085                   |   |
| 23      | W20  | W17  | 7   | 3                             |                               |  | 3                         | 321                      | 324                | 31     | 200                     | 1.328             | 0.013                             | 0.514                              | 8.519                           | 34.481                   |   |
| 24      | W21  | W22  | 7   | 0                             |                               |  | 0                         | 322                      | 321                | 34     | 200                     | 0.790             | 0.007                             | 0.167                              | 8.686                           | 34.314                   |   |
| 25      | W22  | W21  | 33  | 43                            |                               |  | 43                        | 344                      | 388                | 200    | 150                     | 0.534             | 0.002                             | 0.413                              | 9.101                           | 33.896                   |   |
| 26      | W21  | W24  | 25  | 34                            |                               |  | 34                        | 0                        | 269                | 181    | 150                     | 0.930             | 0.004                             | 0.836                              | 9.738                           | 33.263                   |   |
| 27      | W25  | W28  | 0   | 0                             |                               |  | 0                         | 71                       | 299                | 64     | 150                     | 0.187             | 0.000                             | 0.018                              | 9.794                           | 33.244                   |   |
| 28      | W28  | W29  | 32  | 43                            |                               |  | 43                        | 28                       | 299                | 456    | 150                     | 0.187             | 0.000                             | 0.113                              | 9.908                           | 33.131                   |   |
| 29      | W29  | W30  | 0   | 0                             |                               |  | 0                         | 28                       | 29                 | 86     | 300                     | 0.187             | 0.000                             | 0.024                              | 9.894                           | 33.077                   |   |
| 30      | W29  | W35  | 12  | 14                            |                               |  | 14                        | 28                       | 124                | 172    | 300                     | 0.113             | 0.000                             | 0.010                              | 9.923                           | 33.087                   |   |
| 31      | W30  | W31  | 0   | 0                             |                               |  | 0                         | 28                       | 79                 | 27     | 300                     | 0.187             | 0.000                             | 0.008                              | 9.930                           | 33.083                   |   |
| 32      | W31  | W22  | 0   | 0                             |                               |  | 0                         | 28                       | 88                 | 173    | 300                     | 0.187             | 0.000                             | 0.015                              | 9.945                           | 33.055                   |   |
| 33      | W31  | W22  | 0   | 0                             |                               |  | 0                         | 28                       | 79                 | 26     | 100                     | 0.167             | 0.000                             | 0.009                              | 9.955                           | 33.045                   |   |
| 34      | W31  | W33  | 23  | 28                            |                               |  | 28                        | 0                        | 79                 | 164    | 100                     | 0.267             | 0.000                             | 0.143                              | 10.091                          | 32.903                   |   |
| 35      | W32  | W33  | 0   | 0                             |                               |  | 0                         | 28                       | 79                 | 6      | 100                     | 0.267             | 0.000                             | 0.000                              | 10.091                          | 32.903                   |   |
| 36      | W32  | W18  | 9   | 17                            |                               |  | 17                        | 0                        | 34                 | 6      | 100                     | 0.267             | 0.000                             | 0.000                              | 10.091                          | 32.903                   |   |
| 37      | W33  | W14  | 0   | 0                             |                               |  | 0                         | 16                       | 34                 | 161    | 100                     | 0.072             | 0.000                             | 0.022                              | 10.117                          | 32.888                   |   |
| 38      | W35  | W36  | 0   | 0                             |                               |  | 0                         | 45                       | 0                  | 90     | 100                     | 0.066             | 0.000                             | 0.013                              | 10.123                          | 32.877                   |   |
| 39      | W35  | W33  | 0   | 0                             |                               |  | 0                         | 68                       | 68                 | 67     | 100                     | 0.098             | 0.002                             | 0.121                              | 10.244                          | 32.756                   |   |
| 40      | W39  | W37  | 0   | 0                             |                               |  | 0                         | 68                       | 216                | 104    | 150                     | 0.198             | 0.000                             | 0.023                              | 10.276                          | 32.724                   |   |
| 41      | W37  | W16  | 0   | 0                             |                               |  | 0                         | 68                       | 188                | 20     | 100                     | 0.198             | 0.002                             | 0.014                              | 10.326                          | 32.684                   |   |
| 42      | W37  | W41  | 25  | 34                            |                               |  | 34                        | 0                        | 94                 | 28     | 100                     | 0.189             | 0.002                             | 0.014                              | 10.326                          | 32.674                   |   |
| 43      | W38  | W33  | 25  | 34                            |                               |  | 34                        | 0                        | 94                 | 443    | 100                     | 0.189             | 0.002                             | 0.231                              | 10.547                          | 32.452                   |   |
| 44      | W39  | W40  | 20  | 27                            |                               |  | 27                        | 0                        | 94                 | 443    | 100                     | 0.189             | 0.002                             | 0.224                              | 10.771                          | 32.228                   |   |
| 45      | W40  | W41  | 0   | 0                             |                               |  | 0                         | 05                       | 147                | 158    | 100                     | 0.025             | 0.001                             | 1.979                              | 11.796                          | 31.235                   |   |
| 46      | W40  | W47  | 7   | 9                             |                               |  | 9                         | 18                       | 124                | 36     | 100                     | 0.264             | 0.001                             | 0.072                              | 11.862                          | 31.114                   |   |
| 47      | W41  | W42  | 0   | 0                             |                               |  | 0                         | 4                        | 4                  | 86     | 100                     | 0.100             | 0.000                             | 0.026                              | 11.862                          | 31.099                   |   |
| 48      | W41  | W43  | 0   | 0                             |                               |  | 0                         | 4                        | 11                 | 88     | 100                     | 0.101             | 0.000                             | 0.001                              | 11.952                          | 31.099                   |   |
| 49      | W42  | W43  | 3   | 4                             |                               |  | 4                         | 45                       | 124                | 13     | 200                     | 0.262             | 0.001                             | 0.008                              | 11.930                          | 31.076                   |   |
| 50      | W43  | W45  | 0   | 0                             |                               |  | 0                         | 4                        | 11                 | 11     | 200                     | 0.024             | 0.000                             | 0.001                              | 11.930                          | 31.076                   |   |
| 51      | W43  | W44  | 17  | 23                            |                               |  | 23                        | 0                        | 112                | 204    | 100                     | 0.218             | 0.002                             | 0.206                              | 12.136                          | 30.864                   |   |
| 52      | W42  | W48  | 6   | 8                             |                               |  | 8                         | 0                        | 64                 | 146    | 100                     | 0.131             | 0.000                             | 0.036                              | 12.172                          | 30.828                   |   |
| 53      | W47  | W49  | 0   | 0                             |                               |  | 0                         | 8                        | 23                 | 100    | 0.048                   | 0.000             | 0.001                             | 12.172                             | 30.828                          |                          |   |
| 54      | W48  | W49  | 0   | 0                             |                               |  | 0                         | 8                        | 23                 | 75     | 100                     | 0.048             | 0.000                             | 0.001                              | 12.172                          | 30.828                   |   |



| Sl. No. | Node | Pits | Total Population @Average 13.5 Persons/Plot | Water Demand @100 LPCD in RLD | Others building Total demand in RLD | Others building demand @25% of total water in RLD | Self Total water demand in RLD | Branch water demand in RLD | Total water demand in RLD | Peak based on 60% in RLD | Peak Demand in LPM | Length | Proposed pipe dia in MM | Velocity in m/sec | Frictional head loss in Mtr/100m | Frictional head loss in Mtr/total pipe in Mtr | Cumulative Frictional Loss | Min. Residual head at end | Pump head in m |
|---------|------|------|---|-------------------------------|-------------------------------------|---|--------------------------------|----------------------------|---------------------------|--------------------------|--------------------|--------|-------------------------|-------------------|----------------------------------|---|----------------------------|---------------------------|----------------|
|         |      |      |   |                               |                                     |   |                                |                            |                           |                          |                    |        |                         |                   |                                  |   |                            |                           |                |
| 1       | W1   | 0    | 0   | 0                             | 0                                   | 0   | 0                              | 11.29                      | 11.29                     | 1.97                     | 3276               | 6      | 316                     | 1.113             | 0.024                            | 0.025   | 43.075                     |                           |                |
| 2       | W2   | 1    | 27  | 3                             |                                     |   |                                | 38                         | 41                        | 7                        |                    | 17     | 307                     | 0.229             | 0.042                            | 0.066   | 42.962                     |                           |                |
| 3       | W3   | 1    | 13.5  | 1                             |                                     |   |                                | 14                         | 15                        | 3                        | 41                 | 250    | 0.654                   | 0.000             | 0.000                            | 0.040   | 42.960                     |                           |                |
| 4       | W4   | 8    | 108   | 14                            |                                     |   |                                | 30                         | 45                        | 8                        |                    | 75     | 100                     | 0.289             | 0.000                            | 0.074   | 42.886                     |                           |                |
| 5       | W5   | 10   | 135   | 14                            |                                     |   |                                | 14                         | 14                        | 2                        | 38                 | 140    | 100                     | 0.080             | 0.000                            | 0.111   | 42.775                     |                           |                |
| 6       | W6   | 0    | 0   | 0                             |                                     |   |                                | 14                         | 14                        | 2                        | 38                 | 32     | 100                     | 0.080             | 0.000                            | 0.130   | 42.645                     |                           |                |
| 7       | W7   | 10   | 135   | 14                            |                                     |   |                                | 14                         | 14                        | 2                        | 38                 | 162    | 100                     | 0.080             | 0.000                            | 0.155   | 42.490                     |                           |                |
| 8       | W8   | 1    | 13.5  | 1                             |                                     |   |                                | 14                         | 14                        | 4                        | 64                 | 32     | 100                     | 0.143             | 0.000                            | 0.155   | 42.335                     |                           |                |
| 9       | W9   | 0    | 0   | 0                             |                                     |   |                                | 14                         | 14                        | 4                        | 64                 | 100    | 100                     | 0.135             | 0.000                            | 0.165   | 42.170                     |                           |                |
| 10      | W10  | 33   | 275.5                                       | 18                            |                                     |   |                                | 28                         | 28                        | 3                        | 49                 | 273    | 100                     | 0.103             | 0.000                            | 0.187   | 41.983                     |                           |                |
| 11      | W11  | 4    | 54  | 3                             |                                     |   |                                | 5                          | 5                         | 1                        | 15                 | 300    | 100                     | 0.092             | 0.000                            | 0.187   | 41.796                     |                           |                |
| 12      | W12  | 30   | 270   | 14                            |                                     |   |                                | 14                         | 14                        | 2                        | 38                 | 140    | 300                     | 0.080             | 0.000                            | 0.187   | 41.609                     |                           |                |
| 13      | W13  | 7    | 84.5  | 9                             |                                     |   |                                | 30                         | 30                        | 7                        | 108                | 260    | 260                     | 0.080             | 0.011                            | 0.187   | 41.422                     |                           |                |
| 14      | W14  | 5    | 131.5                                       | 13                            |                                     |   |                                | 447                        | 453                       | 27                       | 1375               | 169    | 200                     | 0.176             | 0.000                            | 0.212   | 41.235                     |                           |                |
| 15      | W15  | 0    | 0   | 0                             |                                     |   |                                | 1000                       | 1000                      | 107                      | 2778               | 64     | 200                     | 1.473             | 0.000                            | 0.240   | 41.048                     |                           |                |
| 16      | W16  | 0    | 0   | 0                             |                                     |   |                                | 447                        | 447                       | 24                       | 1343               | 20     | 200                     | 0.026             | 0.000                            | 0.240   | 40.861                     |                           |                |
| 17      | W17  | 10   | 135   | 14                            |                                     |   |                                | 14                         | 14                        | 27                       | 407                | 68     | 100                     | 0.069             | 0.000                            | 0.240   | 40.674                     |                           |                |
| 18      | W18  | 30   | 465   | 45                            |                                     |   |                                | 242                        | 242                       | 47                       | 766                | 188    | 100                     | 0.418             | 0.001                            | 0.240   | 40.487                     |                           |                |
| 19      | W19  | 15   | 202.5                                       | 22                            |                                     |   |                                | 43                         | 43                        | 7                        | 119                | 157    | 100                     | 0.233             | 0.001                            | 0.240   | 40.300                     |                           |                |
| 20      | W20  | 4    | 54  | 5                             |                                     |   |                                | 102                        | 108                       | 18                       | 300                | 64     | 100                     | 0.699             | 0.004                            | 0.276   | 40.113                     |                           |                |
| 21      | W21  | 8    | 108   | 11                            |                                     |   |                                | 42                         | 101                       | 17                       | 385                | 70     | 300                     | 0.604             | 0.004                            | 0.276   | 39.926                     |                           |                |
| 22      | W22  | 18   | 243   | 24                            |                                     |   |                                | 42                         | 66                        | 21                       | 384                | 155    | 300                     | 0.490             | 0.002                            | 0.276   | 39.739                     |                           |                |
| 23      | W23  | 25   | 337.5                                       | 34                            |                                     |   |                                | 34                         | 34                        | 6                        | 64                 | 186    | 200                     | 0.290             | 0.001                            | 0.276   | 39.552                     |                           |                |
| 24      | W24  | 12   | 162   | 16                            |                                     |   |                                | 42                         | 58                        | 10                       | 131                | 103    | 100                     | 0.342             | 0.001                            | 0.276   | 39.365                     |                           |                |
| 25      | W25  | 31   | 418.5                                       | 42                            |                                     |   |                                | 42                         | 42                        | 7                        | 116                | 112    | 100                     | 0.247             | 0.001                            | 0.240   | 39.178                     |                           |                |
| 26      | W26  | 25   | 337.5                                       | 34                            |                                     |   |                                | 34                         | 34                        | 24                       | 304                | 257    | 100                     | 0.199             | 0.001                            | 0.240   | 38.991                     |                           |                |
| 27      | W27  | 0    | 0   | 0                             |                                     |   |                                | 30                         | 30                        | 182                      | 2484               | 10     | 308                     | 1.423             | 0.000                            | 0.240   | 38.804                     |                           |                |
| 28      | W28  | 24   | 324   | 32                            |                                     |   |                                | 30                         | 30                        | 5                        | 99                 | 277    | 100                     | 0.195             | 0.000                            | 0.240   | 38.617                     |                           |                |
| 29      | W29  | 0    | 0   | 0                             |                                     |   |                                | 300                        | 300                       | 201                      | 2484               | 63     | 308                     | 1.423             | 0.000                            | 0.240   | 38.430                     |                           |                |
| 30      | W30  | 8    | 108   | 11                            |                                     |   |                                | 305                        | 316                       | 53                       | 678                | 61     | 300                     | 0.827             | 0.004                            | 0.240   | 38.243                     |                           |                |
| 31      | W31  | 14   | 189   | 19                            |                                     |   |                                | 61                         | 60                        | 108                      | 1000               | 220    | 200                     | 0.658             | 0.004                            | 0.240   | 38.056                     |                           |                |
| 32      | W32  | 7    | 94.5  | 9                             |                                     |   |                                | 286                        | 302                       | 51                       | 648                | 74     | 150                     | 0.799             | 0.004                            | 0.240   | 37.869                     |                           |                |
| 33      | W33  | 27   | 364.5                                       | 38                            |                                     |   |                                | 34                         | 34                        | 6                        | 101                | 220    | 100                     | 0.215             | 0.001                            | 0.240   | 37.682                     |                           |                |
| 34      | W34  | 0    | 0   | 0                             |                                     |   |                                | 259                        | 259                       | 42                       | 720                | 33     | 150                     | 0.679             | 0.003                            | 0.240   | 37.495                     |                           |                |
| 35      | W35  | 11   | 175.5                                       | 18                            |                                     |   |                                | 38                         | 38                        | 3                        | 48                 | 270    | 100                     | 0.100             | 0.000                            | 0.240   | 37.308                     |                           |                |
| 36      | W36  | 8    | 108   | 11                            |                                     |   |                                | 311                        | 243                       | 40                       | 672                | 78     | 150                     | 0.623             | 0.003                            | 0.240   | 37.121                     |                           |                |
| 37      | W37  | 13   | 175.5                                       | 18                            |                                     |   |                                | 18                         | 18                        | 3                        | 49                 | 218    | 100                     | 0.100             | 0.000                            | 0.240   | 36.934                     |                           |                |
| 38      | W38  | 2    | 27  | 3                             |                                     |   |                                | 211                        | 213                       | 36                       | 503                | 62     | 150                     | 0.559             | 0.002                            | 0.240   | 36.747                     |                           |                |
| 39      | W39  | 11   | 175.5                                       | 18                            |                                     |   |                                | 18                         | 18                        | 3                        | 49                 | 220    | 100                     | 0.101             | 0.000                            | 0.240   | 36.560                     |                           |                |
| 40      | W40  | 0    | 0   | 0                             |                                     |   |                                | 100                        | 100                       | 52                       | 519                | 87     | 150                     | 0.626             | 0.003                            | 0.240   | 36.373                     |                           |                |
| 41      | W41  | 32   | 462   | 16                            |                                     |   |                                | 18                         | 18                        | 5                        | 45                 | 100    | 100                     | 0.095             | 0.000                            | 0.240   | 36.186                     |                           |                |
| 42      | W42  | 29   | 391.5                                       | 39                            |                                     |   |                                | 138                        | 177                       | 26                       | 462                | 190    | 150                     | 0.483             | 0.000                            | 0.240   | 36.000                     |                           |                |
| 43      | W43  | 20   | 270   | 27                            |                                     |   |                                | 27                         | 27                        | 5                        | 75                 | 127    | 100                     | 0.159             | 0.000                            | 0.240   | 35.813                     |                           |                |
| 44      | W44  | 0    | 0   | 0                             |                                     |   |                                | 95.5                       | 111                       | 18                       | 308                | 83     | 150                     | 0.290             | 0.001                            | 0.240   | 35.626                     |                           |                |
| 45      | W45  | 0    | 0   | 0                             |                                     |   |                                | 83                         | 83                        | 16                       | 209                | 28     | 150                     | 0.244             | 0.000                            | 0.240   | 35.439                     |                           |                |
| 46      | W46  | 8    | 108   | 11                            |                                     |   |                                | 31                         | 31                        | 2                        | 30                 | 127    | 100                     | 0.084             | 0.000                            | 0.240   | 35.252                     |                           |                |
| 47      | W47  | 0    | 0   | 0                             |                                     |   |                                | 82                         | 82                        | 24                       | 229                | 78     | 150                     | 0.218             | 0.000                            | 0.240   | 35.065                     |                           |                |
| 48      | W48  | 8    | 108   | 11                            |                                     |   |                                | 11                         | 11                        | 2                        | 30                 | 127    | 100                     | 0.064             | 0.000                            | 0.240   | 34.878                     |                           |                |
| 49      | W49  | 0    | 0   | 0                             |                                     |   |                                | 72                         | 72                        | 12                       | 109                | 55     | 150                     | 0.187             | 0.000                            | 0.240   | 34.691                     |                           |                |
| 50      | W50  | 0    | 0   | 0                             |                                     |   |                                | 11                         | 11                        | 3                        | 45                 | 127    | 100                     | 0.084             | 0.000                            | 0.240   | 34.504                     |                           |                |
| 51      | W51  | 1    | 13.5  | 1                             |                                     |   |                                | 50                         | 51                        | 10                       | 169                | 34     | 150                     | 0.199             | 0.000                            | 0.240   | 34.317                     |                           |                |
| 52      | W52  | 8    | 108   | 11                            |                                     |   |                                | 49                         | 59                        | 10                       | 165                | 127    | 100                     | 0.190             | 0.000                            | 0.240   | 34.130                     |                           |                |
| 53      | W53  | 17   | 229.5                                       | 23                            |                                     |   |                                | 28                         | 49                        | 8                        | 115                | 127    | 110                     | 0.137             | 0.000                            | 0.240   | 33.943                     |                           |                |



| Sl. No. | Node | Pipe | Total Population @ Average 33.5 Person/Plot | Water Demand @ 100 LPCD In KLD | Others building demand @ 95% of total water demand In KLD | Given building demand @ 95% of total water demand In KLD | Self Total water demand In KLD | Branch In KLD | Total water demand In KLD | Peak based on 80% In KLD | Peak Demand In LPM | Length | Proposed pipe dia In MM | Velocity In m/sec | Frictional head loss In Mtr./Mtr. | Frictional head loss In total pipe In Mtr. | Cumulative Frictional Loss | Mfr. Head at end | pipe head In M | on below = 7 mtr. |
|---------|------|------|---|--------------------------------|---|--|--------------------------------|---------------|---------------------------|--------------------------|--------------------|--------|-------------------------|-------------------|-----------------------------------|--|----------------------------|------------------|----------------|-------------------|
| 54      | W48  | W26  | 0   | 0                              |   |  | 0                              | 26            | 26                        | 4                        | 71                 | 81     | 100                     | 0.251             | 0.000                             | 0.023                                      | 1.511                      | 26.400           |                |                   |
| 55      | W47  | W49  | 3   | 4                              |   |  | 4                              | 22            | 26                        | 4                        | 71                 | 20     | 100                     | 0.151             | 0.000                             | 0.006                                      | 7.577                      | 35.435           |                |                   |
| 56      | W48  | W49  | 4   | 5                              |   |  | 5                              | 16            | 22                        | 4                        | 60                 | 74     | 100                     | 0.177             | 0.001                             | 0.019                                      | 1.576                      | 35.427           |                |                   |
| 57      | W49  | W50  | 2   | 3                              |   |  | 3                              | 14            | 18                        | 3                        | 45                 | 25     | 100                     | 0.096             | 0.000                             | 0.004                                      | 7.371                      | 38.314           |                |                   |
| 58      | W50  | W51  | 0   | 0                              |   |  | 0                              | 14            | 14                        | 2                        | 38                 | 78     | 100                     | 0.080             | 0.000                             | 0.007                                      | 7.300                      | 35.418           |                |                   |
| 59      | W51  | W52  | 7   | 3                              |   |  | 3                              | 11            | 14                        | 2                        | 38                 | 86     | 100                     | 0.064             | 0.000                             | 0.005                                      | 7.587                      | 35.411           |                |                   |
| 60      | W52  | W54  | 4   | 5                              |   |  | 5                              | 5             | 11                        | 2                        | 30                 | 86     | 100                     | 0.064             | 0.000                             | 0.005                                      | 7.592                      | 35.408           |                |                   |
| 61      | W54  | W55  | 4   | 5                              |   |  | 5                              | 5             | 11                        | 2                        | 30                 | 86     | 100                     | 0.052             | 0.000                             | 0.001                                      | 7.593                      | 35.407           |                |                   |
| 62      | W56  | W57  | 11  | 15                             |   |  | 15                             | 302           | 313                       | 31                       | 674                | 148    | 300                     | 0.664             | 0.001                             | 0.150                                      | 7.751                      | 35.248           |                |                   |
| 63      | W57  | W58  | 0   | 0                              |   |  | 0                              | 00            | 00                        | 18                       | 274                | 44     | 300                     | 0.591             | 0.004                             | 0.140                                      | 7.912                      | 35.288           |                |                   |
| 64      | W57  | W58  | 0   | 0                              |   |  | 0                              | 207           | 207                       | 14                       | 242                | 44     | 300                     | 0.297             | 0.000                             | 0.021                                      | 7.915                      | 35.084           |                |                   |
| 65      | W58  | W59  | 8   | 11                             |   |  | 11                             | 0             | 11                        | 2                        | 30                 | 78     | 300                     | 0.084             | 0.000                             | 0.005                                      | 7.917                      | 35.083           |                |                   |
| 66      | W58  | W62  | 7   | 9                              |   |  | 9                              | 81            | 90                        | 15                       | 251                | 51     | 300                     | 0.333             | 0.003                             | 0.091                                      | 8.096                      | 34.900           |                |                   |
| 67      | W62  | W66  | 27  | 23                             |   |  | 23                             | 0             | 23                        | 4                        | 64                 | 187    | 300                     | 0.176             | 0.000                             | 0.046                                      | 8.144                      | 34.854           |                |                   |
| 68      | W62  | W63  | 43  | 58                             |   |  | 58                             | 0             | 58                        | 10                       | 161                | 203    | 300                     | 0.342             | 0.001                             | 0.176                                      | 8.410                      | 34.580           |                |                   |
| 69      | W66  | W67  | 60  | 61                             |   |  | 61                             | 0             | 61                        | 14                       | 225                | 238    | 300                     | 0.677             | 0.003                             | 0.602                                      | 8.022                      | 33.978           |                |                   |
| 70      | W66  | W67  | 0   | 0                              |   |  | 0                              | 0             | 0                         | 14                       | 225                | 238    | 300                     | 0.677             | 0.003                             | 0.154                                      | 8.154                      | 33.844           |                |                   |
| 71      | W67  | W70  | 0   | 0                              |   |  | 0                              | 322           | 322                       | 20                       | 330                | 51     | 300                     | 0.178             | 0.000                             | 0.009                                      | 8.163                      | 33.637           |                |                   |
| 72      | W70  | W71  | 5   | 7                              |   |  | 7                              | 114           | 121                       | 10                       | 316                | 38     | 300                     | 0.713             | 0.006                             | 0.207                                      | 8.371                      | 33.623           |                |                   |
| 73      | W71  | W72  | 15  | 20                             |   |  | 20                             | 0             | 20                        | 3                        | 50                 | 68     | 300                     | 0.113             | 0.000                             | 0.011                                      | 8.364                      | 33.614           |                |                   |
| 74      | W71  | W75  | 0   | 0                              |   |  | 0                              | 80            | 80                        | 16                       | 262                | 49     | 300                     | 0.541             | 0.003                             | 0.163                                      | 8.547                      | 33.453           |                |                   |
| 75      | W75  | W78  | 18  | 22                             |   |  | 22                             | 0             | 22                        | 4                        | 60                 | 68     | 300                     | 0.127             | 0.000                             | 0.015                                      | 8.562                      | 33.438           |                |                   |
| 76      | W75  | W78  | 7   | 8                              |   |  | 8                              | 35            | 44                        | 11                       | 178                | 48     | 300                     | 0.379             | 0.003                             | 0.079                                      | 8.642                      | 33.359           |                |                   |
| 77      | W78  | W80  | 18  | 22                             |   |  | 22                             | 0             | 22                        | 4                        | 60                 | 85     | 300                     | 0.137             | 0.000                             | 0.019                                      | 8.648                      | 33.340           |                |                   |
| 78      | W78  | W83  | 5   | 8                              |   |  | 8                              | 25            | 33                        | 0                        | 92                 | 48     | 300                     | 0.106             | 0.000                             | 0.007                                      | 8.683                      | 33.317           |                |                   |
| 79      | W83  | W84  | 10  | 14                             |   |  | 14                             | 0             | 14                        | 3                        | 47                 | 51     | 300                     | 0.160             | 0.000                             | 0.007                                      | 8.895                      | 33.129           |                |                   |
| 80      | W83  | W87  | 0   | 0                              |   |  | 0                              | 0             | 0                         | 1                        | 25                 | 53     | 200                     | 0.048             | 0.000                             | 0.003                                      | 8.932                      | 33.108           |                |                   |

SUB WORK No. 1

WATER SUPPLY

Sub Head 5

Flushing/Irrigation System

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.99625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No.                    | Description   | Amount                      |               |
|--------------------------|---|-----------------------------|---------------|
| 1                        | Providing, laying, jointing and testing pipes lines conforming uPVC/HDPE pipe 10 Kg/Sq.cm Class-IV (IS: 4985) including cost of excavation etc. complete in all respects. |                             |               |
| 1.1                      | 25 mm Pipe 1452 Mtr @ Rs. 450 <del>300</del>  | Rs. 6,53,400.00             | 4.36          |
| 1.2                      | 32 mm Pipe 142 Mtr @ Rs. 500 <del>450</del> ] imjdbm  | Rs. 71,000.00               | 0.64          |
| 1.3                      | 40 mm Pipe 12 Mtr @ Rs. 600 <del>500</del> ]  | Rs. 7,200.00                | 0.06          |
| 1.4                      | <del>75 mm Pipe 5567 Mtr @ Rs. 900</del>  | <del>Rs. 50,01,300.00</del> |               |
| 1.5                      | <del>90 mm Pipe 6189 Mtr @ Rs. 1,100</del>  | <del>Rs. 67,07,900.00</del> |               |
| 1.6                      | 190 mm Pipe 12615 <del>1889</del> Mtr @ Rs. 1,460 <del>1000</del>   | Rs. 27,28,740.00            | 184.16        |
| 1.7                      | 160 mm Pipe 2200 Mtr @ Rs. 1,800 <del>2040</del> -  | Rs. 39,60,000.00            | 44.88         |
| 1.8                      | 285 mm Pipe 27 Mtr @ Rs. 2,500 <del>2700</del> -  | Rs. 67,500.00               | 0.73          |
| 1.9                      | 250 mm Pipe 689 Mtr @ Rs. 2,800 <del>3000</del> -   | Rs. 19,29,200.00            | 20.67         |
| 2                        | Providing and fixing sluice valve including cost of surface boxes and masonry chambers etc. complete in all respects.   |                             |               |
| 2.1                      | <del>250</del> mm 10 2 Each @ Rs. 10,000 <del>2500</del>  | Rs. 20,000.00               |               |
| 2.2                      | <del>200</del> mm 1 10 Each @ Rs. 40,000 <del>20000</del>   | Rs. 1,20,000.00             | 0.20          |
| 3.1                      | 100 mm 5 2 Each @ Rs. 16,000  | Rs. 32,000.00               | 6.24          |
| 3.2                      | 150 mm 2 2 Each @ Rs. 20,000 <del>15000</del>   | Rs. 40,000.00               | 3.30          |
| 3                        | Providing and fixing Garden Hydrant<br>362 Nos. @ Rs. 3,600 <del>5000</del> each  | Rs. 12,67,000.00            | 19.10         |
| 4                        | Providing and fixing air release valve and scour valve<br>8 Nos. @ Rs. 2,000 <del>5000</del> each <del>10000</del>  | Rs. 16,000.00               | 0.80          |
| 5                        | Indication plate for valves, hydrant AV etc.  | Rs. 3,00,000.00             | 40000         |
| 6                        | Provision for carriage of materials and other unforeseen items  | Rs. 5,00,000.00             |               |
| TOTAL CO to SUB WORK - 1 |   | Rs. 2,24,21,240.00          | 22445240      |
|                          |   |                             | 8 294.66 lacs |



| FLUSHING MATERIAL SHEET |      |     |        |                          |                      |              |               |               |               |               |
|-------------------------|------|-----|--------|--------------------------|----------------------|--------------|---------------|---------------|---------------|---------------|
| Sl. No.                 | Node |     | Length | Proposed pipe dia in OD. | PIPE LENGTH DIA WISE |              |               |               |               |               |
|                         |      |     |        |                          | 100 mm<br>75         | 100 mm<br>90 | 100 mm<br>110 | 150 mm<br>160 | 200 mm<br>225 | 250 mm<br>260 |
| NILP LEFT SIDE          |      |     |        |                          |                      |              |               |               |               |               |
| 1                       | F1   | F2  | 27     | 205                      | 0                    | 0            | 0             | 0             | 27            | 0             |
| 2                       | F2   | F13 | 186    | 150                      | 0                    | 0            | 0             | 186           | 0             | 0             |
| 3                       | F2   | F4  | 81     | 150                      | 0                    | 0            | 0             | 81            | 0             | 0             |
| 2                       | F4   | F5  | 170    | 150                      | 0                    | 0            | 0             | 170           | 0             | 0             |
| 3                       | F4   | F23 | 33     | 150                      | 0                    | 33           | 0             | 0             | 0             | 0             |
| 4                       | F5   | F6  | 63     | 150                      | 0                    | 63           | 0             | 0             | 0             | 0             |
| 5                       | F5   | F24 | 33     | 150                      | 0                    | 0            | 0             | 33            | 0             | 0             |
| 6                       | F6   | F7  | 182    | 175                      | 182                  | 0            | 0             | 0             | 0             | 0             |
| 7                       | F6   | F10 | 118    | 150                      | 0                    | 118          | 0             | 0             | 0             | 0             |
| 8                       | F10  | F11 | 53     | 150                      | 0                    | 53           | 0             | 0             | 0             | 0             |
| 9                       | F10  | F12 | 118    | 150                      | 0                    | 118          | 0             | 0             | 0             | 0             |
| 10                      | F13  | F14 | 180    | 150                      | 0                    | 0            | 180           | 0             | 0             | 0             |
| 11                      | F13  | F16 | 73     | 150                      | 0                    | 0            | 0             | 73            | 0             | 0             |
| 12                      | F16  | F18 | 74     | 150                      | 0                    | 0            | 0             | 74            | 0             | 0             |
| 13                      | F16  | F30 | 41     | 150                      | 0                    | 0            | 41            | 0             | 0             | 0             |
| 14                      | F18  | F19 | 64     | 150                      | 0                    | 64           | 0             | 0             | 0             | 0             |
| 15                      | F18  | F29 | 170    | 150                      | 0                    | 0            | 0             | 170           | 0             | 0             |
| 16                      | F19  | F20 | 34     | 150                      | 0                    | 34           | 0             | 0             | 0             | 0             |
| 17                      | F19  | F28 | 170    | 150                      | 170                  | 0            | 0             | 0             | 0             | 0             |
| 18                      | F20  | F21 | 63     | 150                      | 0                    | 63           | 0             | 0             | 0             | 0             |
| 19                      | F20  | F27 | 170    | 150                      | 170                  | 0            | 0             | 0             | 0             | 0             |
| 20                      | F21  | F23 | 72     | 150                      | 0                    | 72           | 0             | 0             | 0             | 0             |
| 21                      | F21  | F26 | 170    | 150                      | 170                  | 0            | 0             | 0             | 0             | 0             |
| 22                      | F23  | F24 | 170    | 150                      | 170                  | 0            | 0             | 0             | 0             | 0             |
| 23                      | F24  | F26 | 72     | 150                      | 0                    | 0            | 0             | 72            | 0             | 0             |
| 24                      | F26  | F27 | 63     | 150                      | 0                    | 0            | 0             | 63            | 0             | 0             |
| 25                      | F27  | F28 | 34     | 150                      | 0                    | 0            | 0             | 34            | 0             | 0             |
| 26                      | F28  | F29 | 64     | 150                      | 0                    | 0            | 0             | 64            | 0             | 0             |
| 27                      | F29  | F42 | 19     | 150                      | 0                    | 0            | 19            | 0             | 0             | 0             |
| 28                      | F30  | F31 | 67     | 150                      | 0                    | 67           | 0             | 0             | 0             | 0             |
| 29                      | F30  | F41 | 174    | 150                      | 0                    | 0            | 174           | 0             | 0             | 0             |
| 30                      | F31  | F40 | 174    | 150                      | 174                  | 0            | 0             | 0             | 0             | 0             |
| 31                      | F31  | F32 | 20     | 150                      | 0                    | 20           | 0             | 0             | 0             | 0             |
| 32                      | F32  | F33 | 178    | 150                      | 178                  | 0            | 0             | 0             | 0             | 0             |
| 33                      | F32  | F37 | 30     | 150                      | 0                    | 30           | 0             | 0             | 0             | 0             |
| 34                      | F33  | F34 | 33     | 150                      | 33                   | 0            | 0             | 0             | 0             | 0             |
| 35                      | F34  | F35 | 176    | 150                      | 176                  | 0            | 0             | 0             | 0             | 0             |
| 36                      | F35  | F37 | 5      | 150                      | 5                    | 0            | 0             | 0             | 0             | 0             |
| 37                      | F35  | F36 | 87     | 150                      | 87                   | 0            | 0             | 0             | 0             | 0             |
| 38                      | F37  | F38 | 174    | 150                      | 0                    | 174          | 0             | 0             | 0             | 0             |
| 39                      | F38  | F39 | 33     | 150                      | 0                    | 33           | 0             | 0             | 0             | 0             |
| 40                      | F38  | F47 | 446    | 150                      | 0                    | 446          | 0             | 0             | 0             | 0             |
| 41                      | F39  | F40 | 19     | 150                      | 19                   | 0            | 0             | 0             | 0             | 0             |
| 42                      | F39  | F44 | 442    | 150                      | 0                    | 442          | 0             | 0             | 0             | 0             |
| 43                      | F40  | F41 | 67     | 150                      | 0                    | 0            | 67            | 0             | 0             | 0             |
| 44                      | F41  | F42 | 104    | 150                      | 0                    | 0            | 104           | 0             | 0             | 0             |
| 45                      | F42  | F43 | 339    | 150                      | 0                    | 0            | 339           | 0             | 0             | 0             |
| 46                      | F43  | F44 | 86     | 150                      | 0                    | 86           | 0             | 0             | 0             | 0             |
| 47                      | F43  | F52 | 266    | 150                      | 266                  | 0            | 0             | 0             | 0             | 0             |
| 48                      | F44  | F45 | 54     | 150                      | 54                   | 0            | 0             | 0             | 0             | 0             |
| 49                      | F44  | F47 | 33     | 150                      | 0                    | 33           | 0             | 0             | 0             | 0             |
| 50                      | F45  | F46 | 33     | 150                      | 33                   | 0            | 0             | 0             | 0             | 0             |
| 51                      | F46  | F47 | 54     | 150                      | 54                   | 0            | 0             | 0             | 0             | 0             |
| 52                      | F47  | F49 | 292    | 150                      | 0                    | 292          | 0             | 0             | 0             | 0             |
| 53                      | F49  | F51 | 147    | 150                      | 147                  | 0            | 0             | 0             | 0             | 0             |
| 54                      | F52  | F53 | 87     | 150                      | 87                   | 0            | 0             | 0             | 0             | 0             |
| 55                      | F52  | F55 | 32     | 150                      | 32                   | 0            | 0             | 0             | 0             | 0             |
| 56                      | F53  | F54 | 32     | 150                      | 32                   | 0            | 0             | 0             | 0             | 0             |
| 57                      | F54  | F55 | 86     | 150                      | 86                   | 0            | 0             | 0             | 0             | 0             |
| TOTAL LENGTH In mtr.    |      |     | 6537   |                          | 2325                 | 2241         | 924           | 1020          | 27            | 0             |



| NILP RIGHT SIDE |     |     |     |     |     |     |     |     |   |     |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|
| 1               | F1  | F2  | 689 | 250 | 0   | 0   | 0   | 0   | 0 | 689 |
| 2               | F2  | F3  | 127 | 127 | 0   | 127 | 0   | 0   | 0 | 0   |
| 3               | F2  | F14 | 88  | 127 | 0   | 0   | 0   | 88  | 0 | 0   |
| 4               | F2  | F60 | 190 | 127 | 0   | 0   | 0   | 190 | 0 | 0   |
| 5               | F3  | F4  | 39  | 39  | 0   | 0   | 0   | 0   | 0 | 0   |
| 6               | F3  | F6  | 88  | 88  | 0   | 88  | 0   | 0   | 0 | 0   |
| 7               | F6  | F7  | 31  | 31  | 0   | 31  | 0   | 0   | 0 | 0   |
| 8               | F6  | F14 | 127 | 127 | 127 | 0   | 0   | 0   | 0 | 0   |
| 9               | F7  | F8  | 79  | 79  | 0   | 79  | 0   | 0   | 0 | 0   |
| 10              | F7  | F15 | 127 | 127 | 127 | 0   | 0   | 0   | 0 | 0   |
| 11              | F8  | F9  | 32  | 32  | 0   | 32  | 0   | 0   | 0 | 0   |
| 12              | F8  | F16 | 127 | 127 | 127 | 0   | 0   | 0   | 0 | 0   |
| 13              | F9  | F11 | 83  | 83  | 0   | 83  | 0   | 0   | 0 | 0   |
| 14              | F9  | F17 | 127 | 127 | 127 | 0   | 0   | 0   | 0 | 0   |
| 15              | F11 | F12 | 18  | 18  | 18  | 0   | 0   | 0   | 0 | 0   |
| 16              | F11 | F19 | 127 | 127 | 0   | 127 | 0   | 0   | 0 | 0   |
| 17              | F14 | F15 | 31  | 31  | 0   | 0   | 0   | 31  | 0 | 0   |
| 18              | F14 | F58 | 190 | 190 | 190 | 0   | 0   | 0   | 0 | 0   |
| 19              | F15 | F16 | 79  | 79  | 0   | 0   | 0   | 79  | 0 | 0   |
| 20              | F15 | F57 | 218 | 218 | 218 | 0   | 0   | 0   | 0 | 0   |
| 21              | F16 | F17 | 32  | 32  | 0   | 0   | 0   | 32  | 0 | 0   |
| 22              | F16 | F56 | 218 | 218 | 218 | 0   | 0   | 0   | 0 | 0   |
| 23              | F17 | F19 | 83  | 83  | 0   | 0   | 0   | 83  | 0 | 0   |
| 24              | F17 | F55 | 218 | 218 | 218 | 0   | 0   | 0   | 0 | 0   |
| 25              | F19 | F20 | 73  | 73  | 0   | 0   | 0   | 73  | 0 | 0   |
| 26              | F19 | F53 | 218 | 218 | 218 | 0   | 0   | 0   | 0 | 0   |
| 27              | F20 | F21 | 145 | 145 | 0   | 0   | 145 | 0   | 0 | 0   |
| 28              | F20 | F52 | 218 | 218 | 0   | 0   | 0   | 218 | 0 | 0   |
| 29              | F21 | F24 | 53  | 53  | 0   | 53  | 0   | 0   | 0 | 0   |
| 30              | F21 | F31 | 44  | 44  | 0   | 0   | 44  | 0   | 0 | 0   |
| 31              | F24 | F25 | 74  | 74  | 74  | 0   | 0   | 0   | 0 | 0   |
| 32              | F24 | F28 | 52  | 52  | 0   | 52  | 0   | 0   | 0 | 0   |
| 33              | F28 | F29 | 195 | 195 | 195 | 0   | 0   | 0   | 0 | 0   |
| 34              | F28 | F30 | 175 | 175 | 0   | 175 | 0   | 0   | 0 | 0   |
| 35              | F30 | F31 | 235 | 235 | 0   | 235 | 0   | 0   | 0 | 0   |
| 36              | F30 | F51 | 52  | 52  | 0   | 52  | 0   | 0   | 0 | 0   |
| 37              | F31 | F34 | 52  | 52  | 0   | 0   | 52  | 0   | 0 | 0   |
| 38              | F34 | F74 | 386 | 386 | 0   | 0   | 386 | 0   | 0 | 0   |
| 39              | F34 | F37 | 48  | 48  | 0   | 48  | 0   | 0   | 0 | 0   |
| 40              | F37 | F38 | 68  | 68  | 68  | 0   | 0   | 0   | 0 | 0   |
| 41              | F37 | F41 | 48  | 48  | 0   | 48  | 0   | 0   | 0 | 0   |
| 42              | F41 | F42 | 84  | 84  | 84  | 0   | 0   | 0   | 0 | 0   |
| 43              | F41 | F45 | 48  | 48  | 0   | 48  | 0   | 0   | 0 | 0   |
| 44              | F45 | F46 | 68  | 68  | 68  | 0   | 0   | 0   | 0 | 0   |
| 45              | F45 | F48 | 48  | 48  | 0   | 48  | 0   | 0   | 0 | 0   |
| 46              | F48 | F50 | 54  | 54  | 54  | 0   | 0   | 0   | 0 | 0   |
| 47              | F48 | F51 | 42  | 42  | 0   | 42  | 0   | 0   | 0 | 0   |
| 48              | F52 | F53 | 73  | 73  | 0   | 0   | 0   | 73  | 0 | 0   |
| 49              | F52 | F61 | 64  | 64  | 0   | 0   | 64  | 0   | 0 | 0   |
| 50              | F53 | F55 | 83  | 83  | 0   | 0   | 0   | 83  | 0 | 0   |
| 51              | F55 | F56 | 32  | 32  | 0   | 0   | 0   | 32  | 0 | 0   |
| 52              | F56 | F57 | 79  | 79  | 0   | 0   | 0   | 79  | 0 | 0   |
| 53              | F57 | F58 | 31  | 31  | 0   | 0   | 0   | 31  | 0 | 0   |
| 54              | F58 | F60 | 88  | 88  | 0   | 0   | 0   | 88  | 0 | 0   |
| 55              | F61 | F62 | 300 | 300 | 0   | 300 | 0   | 0   | 0 | 0   |
| 56              | F61 | F63 | 21  | 21  | 0   | 0   | 21  | 0   | 0 | 0   |
| 57              | F62 | F63 | 279 | 279 | 0   | 279 | 0   | 0   | 0 | 0   |
| 58              | F63 | F64 | 64  | 64  | 0   | 0   | 64  | 0   | 0 | 0   |
| 59              | F64 | F65 | 70  | 70  | 0   | 70  | 0   | 0   | 0 | 0   |
| 60              | F64 | F74 | 169 | 169 | 0   | 0   | 169 | 0   | 0 | 0   |
| 61              | F65 | F66 | 140 | 140 | 140 | 0   | 0   | 0   | 0 | 0   |
| 62              | F65 | F67 | 33  | 33  | 0   | 33  | 0   | 0   | 0 | 0   |
| 63              | F66 | F68 | 33  | 33  | 33  | 0   | 0   | 0   | 0 | 0   |
| 64              | F67 | F68 | 140 | 140 | 140 | 0   | 0   | 0   | 0 | 0   |



|                      |     |     |      |     |      |      |     |      |   |     |
|----------------------|-----|-----|------|-----|------|------|-----|------|---|-----|
| 65                   | F67 | F69 | 74   | 106 | 0    | 74   | 0   | 0    | 0 | 0   |
| 66                   | F69 | F70 | 164  | 105 | 164  | 0    | 0   | 0    | 0 | 0   |
| 67                   | F69 | F71 | 32   | 180 | 0    | 32   | 0   | 0    | 0 | 0   |
| 68                   | F70 | F72 | 32   | 175 | 32   | 0    | 0   | 0    | 0 | 0   |
| 69                   | F71 | F72 | 172  | 199 | 172  | 0    | 0   | 0    | 0 | 0   |
| 70                   | F71 | F73 | 24   | 106 | 24   | 0    | 0   | 0    | 0 | 0   |
| 71                   | F74 | F75 | 68   | 180 | 0    | 68   | 0   | 0    | 0 | 0   |
| 72                   | F75 | F76 | 164  | 105 | 164  | 0    | 0   | 0    | 0 | 0   |
| 73                   | F75 | F81 | 65   | 180 | 0    | 65   | 0   | 0    | 0 | 0   |
| 74                   | F81 | F82 | 70   | 180 | 0    | 70   | 0   | 0    | 0 | 0   |
| 75                   | F81 | F86 | 208  | 180 | 0    | 208  | 0   | 0    | 0 | 0   |
| 76                   | F82 | F84 | 193  | 106 | 193  | 0    | 0   | 0    | 0 | 0   |
| 77                   | F82 | F85 | 102  | 180 | 0    | 102  | 0   | 0    | 0 | 0   |
| 78                   | F85 | F86 | 279  | 180 | 0    | 279  | 0   | 0    | 0 | 0   |
| TOTAL LENGTH in mtr. |     |     | 8994 |     | 3232 | 2948 | 945 | 1180 | 0 | 689 |

## IRRIGATION MATERIAL SHEET

| S. No. | Node      | Length | Proposed pipe dia in OD. | PIPE LENGTH DIA WISE |    |    |    |
|--------|-----------|--------|--------------------------|----------------------|----|----|----|
|        |           |        |                          | 25                   | 32 | 40 |    |
| 1      | Main line | 1      | 10                       | 25                   | 10 | 0  | 0  |
| 2      | 1         | 2      | 18                       | 25                   | 18 | 0  | 0  |
| 2      | 1         | 3      | 23                       | 25                   | 13 | 0  | 0  |
| 3      | Main line | 4      | 10                       | 32                   | 0  | 30 | 0  |
| 3      | 4         | 5      | 6                        | 25                   | 6  | 0  | 0  |
| 4      | 5         | 6      | 30                       | 25                   | 30 | 0  | 0  |
| 4      | 4         | 7      | 24                       | 25                   | 24 | 0  | 0  |
| 5      | Main line | 8      | 12                       | 25                   | 12 | 0  | 0  |
| 5      | 8         | 9      | 15                       | 25                   | 15 | 0  | 0  |
| 6      | 8         | 10     | 15                       | 25                   | 15 | 0  | 0  |
| 6      | Main line | 9      | 18                       | 25                   | 18 | 0  | 0  |
| 7      | 9         | 10     | 35                       | 25                   | 35 | 0  | 0  |
| 7      | Main line | 11     | 12                       | 32                   | 0  | 12 | 0  |
| 8      | 11        | 12     | 15                       | 25                   | 15 | 0  | 0  |
| 8      | 12        | 13     | 30                       | 25                   | 30 | 0  | 0  |
| 9      | 11        | 14     | 16                       | 25                   | 16 | 0  | 0  |
| 9      | Main line | 15     | 12                       | 32                   | 0  | 12 | 0  |
| 10     | 15        | 16     | 6                        | 25                   | 6  | 0  | 0  |
| 10     | 16        | 17     | 30                       | 25                   | 30 | 0  | 0  |
| 11     | 15        | 18     | 24                       | 25                   | 24 | 0  | 0  |
| 11     | Main line | 19     | 12                       | 25                   | 12 | 0  | 0  |
| 12     | 19        | 20     | 19                       | 25                   | 19 | 0  | 0  |
| 12     | 20        | 21     | 30                       | 25                   | 30 | 0  | 0  |
| 13     | 19        | 22     | 12                       | 25                   | 12 | 0  | 0  |
| 13     | Main line | 23     | 12                       | 40                   | 0  | 0  | 12 |
| 14     | 23        | 24     | 23                       | 25                   | 23 | 0  | 0  |
| 14     | 24        | 25     | 30                       | 25                   | 30 | 0  | 0  |
| 15     | 23        | 26     | 8                        | 25                   | 8  | 0  | 0  |
| 15     | 26        | 27     | 30                       | 25                   | 30 | 0  | 0  |
| 16     | Main line | 28     | 12                       | 32                   | 0  | 12 | 0  |
| 16     | 28        | 29     | 22                       | 25                   | 22 | 0  | 0  |
| 17     | 28        | 30     | 8                        | 25                   | 8  | 0  | 0  |
| 17     | 30        | 31     | 30                       | 25                   | 30 | 0  | 0  |
| 18     | Main line | 32     | 12                       | 32                   | 0  | 12 | 0  |
| 18     | 32        | 33     | 22                       | 25                   | 22 | 0  | 0  |
| 19     | 32        | 34     | 8                        | 25                   | 8  | 0  | 0  |
| 19     | 34        | 35     | 30                       | 25                   | 30 | 0  | 0  |
| 20     | Main line | 36     | 12                       | 32                   | 0  | 12 | 0  |
| 20     | 36        | 37     | 22                       | 25                   | 22 | 0  | 0  |
| 21     | 36        | 38     | 8                        | 25                   | 8  | 0  | 0  |
| 21     | 38        | 39     | 30                       | 25                   | 30 | 0  | 0  |
| 22     | Main line | 40     | 12                       | 32                   | 0  | 12 | 0  |
| 22     | 40        | 41     | 22                       | 25                   | 22 | 0  | 0  |
| 23     | 40        | 42     | 8                        | 25                   | 8  | 0  | 0  |
| 23     | 42        | 43     | 30                       | 25                   | 30 | 0  | 0  |
| 24     | Main line | 44     | 12                       | 32                   | 0  | 12 | 0  |

Grand total = 250mm = 689m  
 200mm = 27m  
 150mm = 220m  
 100mm = 12.615m



|                      |           |    |      |    |      |     |    |
|----------------------|-----------|----|------|----|------|-----|----|
| 24                   | 44        | 45 | 27   | 25 | 22   | 0   | 0  |
| 25                   | 44        | 46 | 8    | 25 | 8    | 0   | 0  |
| 25                   | Main line | 47 | 12   | 32 | 0    | 12  | 0  |
| 26                   | 47        | 48 | 12   | 25 | 12   | 0   | 0  |
| 26                   | 47        | 49 | 19   | 25 | 19   | 0   | 0  |
| 27                   | 49        | 50 | 28   | 25 | 28   | 0   | 0  |
| 27                   | Main line | 51 | 12   | 32 | 0    | 12  | 0  |
| 28                   | 51        | 52 | 8    | 25 | 8    | 0   | 0  |
| 28                   | 52        | 53 | 30   | 25 | 30   | 0   | 0  |
| 29                   | 51        | 54 | 22   | 25 | 22   | 0   | 0  |
| 29                   | Main line | 55 | 12   | 25 | 12   | 0   | 0  |
| 30                   | 55        | 56 | 21   | 25 | 21   | 0   | 0  |
| 30                   | 55        | 57 | 9    | 25 | 9    | 0   | 0  |
| 31                   | Main line | 58 | 12   | 25 | 12   | 0   | 0  |
| 31                   | 58        | 59 | 16   | 25 | 16   | 0   | 0  |
| 32                   | 58        | 60 | 14   | 25 | 14   | 0   | 0  |
| 32                   | Main line | 61 | 12   | 25 | 12   | 0   | 0  |
| 33                   | 61        | 62 | 16   | 25 | 16   | 0   | 0  |
| 34                   | 61        | 63 | 14   | 25 | 14   | 0   | 0  |
| 35                   | Main line | 64 | 12   | 25 | 12   | 0   | 0  |
| 36                   | 64        | 65 | 16   | 25 | 16   | 0   | 0  |
| 37                   | 64        | 66 | 14   | 25 | 14   | 0   | 0  |
| 38                   | Main line | 67 | 12   | 25 | 12   | 0   | 0  |
| 39                   | 67        | 68 | 16   | 25 | 16   | 0   | 0  |
| 40                   | 67        | 69 | 14   | 25 | 14   | 0   | 0  |
| 41                   | Main line | 70 | 12   | 25 | 12   | 0   | 0  |
| 42                   | 70        | 71 | 21   | 25 | 21   | 0   | 0  |
| 43                   | 70        | 72 | 9    | 25 | 9    | 0   | 0  |
| 44                   | Main line | 73 | 12   | 25 | 12   | 0   | 0  |
| 45                   | 73        | 74 | 21   | 25 | 21   | 0   | 0  |
| 46                   | 73        | 75 | 9    | 25 | 9    | 0   | 0  |
| 47                   | Main line | 76 | 12   | 25 | 12   | 0   | 0  |
| 48                   | 76        | 77 | 21   | 25 | 21   | 0   | 0  |
| 49                   | 76        | 78 | 9    | 25 | 9    | 0   | 0  |
| 50                   | Main line | 79 | 12   | 25 | 12   | 0   | 0  |
| 51                   | 79        | 80 | 15   | 25 | 15   | 0   | 0  |
| 52                   | 79        | 81 | 15   | 25 | 15   | 0   | 0  |
| 53                   | Main line | 82 | 12   | 25 | 12   | 0   | 0  |
| 54                   | 82        | 83 | 15   | 25 | 15   | 0   | 0  |
| 55                   | 82        | 84 | 15   | 25 | 15   | 0   | 0  |
| 56                   | Main line | 85 | 12   | 25 | 12   | 0   | 0  |
| 57                   | 85        | 86 | 11   | 25 | 11   | 0   | 0  |
| 58                   | 85        | 87 | 19   | 25 | 19   | 0   | 0  |
| 59                   | Main line | 88 | 12   | 32 | 0    | 12  | 0  |
| 60                   | 88        | 89 | 11   | 25 | 11   | 0   | 0  |
| 61                   | 89        | 90 | 30   | 25 | 30   | 0   | 0  |
| 62                   | 88        | 91 | 19   | 25 | 19   | 0   | 0  |
| 63                   | Main line | 92 | 12   | 32 | 0    | 12  | 0  |
| 64                   | 92        | 93 | 11   | 25 | 11   | 0   | 0  |
| 65                   | 93        | 94 | 30   | 25 | 30   | 0   | 0  |
| 66                   | 92        | 95 | 19   | 25 | 19   | 0   | 0  |
| TOTAL LENGTH in mtr. |           |    | 1606 |    | 1452 | 142 | 12 |





RESIDENTIAL INTEGRATED TOWNSHIP (UNDER 1847-2021) CHEN AI AREA MEASURING 261.8625 ACRES (PROTECTED FROM LAGANCE ROW) OF 2018 DATED 14.10.2018 OF 114.8 ACRES AT SECTION 16.3, 16.4 AND 16.5 DEVELOPED BY MR. LUTKHA WITH PROJECT'S PROPOS LIMITED.

| # of lot | Road | Plot area | Total Population | When Researched (PCC) in RLD | Others building demand (Rd) in RLD | Others building demand (Rd) in RLD | Total demand in RLD | Branch in RLD | Total water demand in RLD | Fresh based on h/d in RLD | Peak Demand in LPM | Length | Pressure of pipe in m/line | Velocity in m/sec | Retention head loss in m/line | Retention head loss in m/line | Frictional head loss in m/line | Cumulative vs Fractional loss | Min. Hydraulic head at end |
|----------|------|-----------|------------------|------------------------------|------------------------------------|------------------------------------|---------------------|---------------|---------------------------|---------------------------|--------------------|--------|----------------------------|-------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------------|
|          |      |           |                  |                              |                                    |                                    |                     |               |                           |                           |                    |        |                            |                   |                               |                               |                                |                               |                            |
| 1        | F1   | 72        | 0                | 0                            | 0                                  | 0                                  | 0                   | 0             | 140                       | 2475                      | 27                 | 200    | 1.412                      | 0.007             | 0.188                         | 0.188                         | 0.188                          | 0.188                         | 47.962                     |
| 2        | F2   | 113       | 10               | 17.4                         | 20                                 | 34                                 | 30                  | 30            | 39                        | 186                       | 186                | 250    | 0.011                      | 0.000             | 0.005                         | 0.194                         | 0.194                          | 0.194                         | 47.962                     |
| 3        | F3   | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 4        | F4   | 18        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 5        | F5   | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 6        | F6   | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 7        | F7   | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 8        | F8   | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 9        | F9   | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 10       | F10  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 11       | F11  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 12       | F12  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 13       | F13  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 14       | F14  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 15       | F15  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 16       | F16  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 17       | F17  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 18       | F18  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 19       | F19  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 20       | F20  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 21       | F21  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 22       | F22  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 23       | F23  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 24       | F24  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 25       | F25  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 26       | F26  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 27       | F27  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 28       | F28  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 29       | F29  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 30       | F30  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 31       | F31  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 32       | F32  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 33       | F33  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 34       | F34  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 35       | F35  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 36       | F36  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 37       | F37  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 38       | F38  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 39       | F39  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 40       | F40  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 41       | F41  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 42       | F42  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 43       | F43  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 44       | F44  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 45       | F45  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 46       | F46  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 47       | F47  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 48       | F48  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 49       | F49  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 50       | F50  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 51       | F51  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 52       | F52  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 53       | F53  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 54       | F54  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 55       | F55  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 56       | F56  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 57       | F57  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 58       | F58  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |
| 59       | F59  | 14        | 3                | 5.4                          | 5                                  | 10.8                               | 10.8                | 10.8          | 13.8                      | 63                        | 63                 | 120    | 0.026                      | 0.002             | 0.293                         | 0.137                         | 0.137                          | 0.137                         | 47.962                     |



| Sl. No. | Node | Poles with<br>Apparatus | Total<br>Population<br>Demand<br>WPS<br>LPDS in<br>KVA | Wires<br>Demand<br>WPS<br>LPDS in<br>KVA | Others building<br>Total demand<br>in KVA | Others<br>building<br>demand<br>% of total<br>demand | Total<br>water<br>demand<br>in KVA | Branch<br>water<br>demand<br>in KVA | Peak<br>water<br>demand<br>in KVA | Peak<br>load on 6<br>phases in<br>KVA | Peak<br>Current<br>in (A) | Length<br>(m) | Process<br>of pole<br>data in<br>m/Sec | Incremental<br>load loss<br>in mV/100<br>m | Fractional<br>load loss<br>in total<br>mV/100<br>m | Conductivity<br>of<br>fractional<br>load loss<br>in mV/100<br>m | MVA. Technical<br>load at end |
|---------|------|-------------------------|--|--|---|--|------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|---------------------------|---------------|--|--|--|---|-------------------------------|
|         |      |                         |  |  |   |  |                                    |                                     |                                   |                                       |                           |               |  |  |  |   |                               |
| 1       | 17   | 1                       | 0  | 0  | 0   | 0  | 0                                  | 0                                   | 0                                 | 0                                     | 0                         | 0             | 0                                      | 0  | 0  | 0   | 0                             |
| 2       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 3       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 4       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 5       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 6       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 7       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 8       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 9       | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 10      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 11      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 12      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 13      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 14      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 15      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 16      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 17      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 18      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 19      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 20      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 21      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 22      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 23      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 24      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 25      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 26      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 27      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 28      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 29      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 30      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 31      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 32      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 33      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 34      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |
| 35      | 12   | 1                       | 187  | 9  | 0   | 0  | 25                                 | 25                                  | 137                               | 137                                   | 173                       | 189           | 25                                     | 0.117                                      | 0.017  | 0.257   | 48.171                        |



| Sl. No. | Node | Photo with | Total Population (thousands) | Waste Demand (gphs per capita per day) | Others building Total demand in BLD | Others building demand (gross of total water) | Left Total water demand in BLD | Branch in BLD | Total water demand in BLD | Peak based on 6 hrs. in BLD | Peak Demand in LPM | Length | Pressure of pipe (at inlet) in MPa | Velocity in m/sec | Frictional head loss in mtr./MPa | Frictional head loss in total pipe in MPa | Correction vs Frictional Loss | Mts. residual head at end |
|---------|------|------------|------------------------------|--|-------------------------------------|---|--------------------------------|---------------|---------------------------|-----------------------------|--------------------|--------|------------------------------------|-------------------|----------------------------------|---|-------------------------------|---------------------------|
| 36      | 130  | 131        | 0                            | 0                                      | 0                                   | 0   | 0                              | 132           | 312                       | 18                          | 236                | 52     | 80                                 | 2.813             | 0.015                            | 0.987                                     | 1.399                         | 45.851                    |
| 37      | 132  | 133        | 0                            | 0                                      | 0                                   | 0   | 0                              | 132           | 312                       | 17                          | 357                | 52     | 158                                | 2.778             | 0.006                            | 0.326                                     | 1.324                         | 45.436                    |
| 38      | 134  | 135        | 405                          | 3                                      | 23                                  | 23  | 23                             | 125           | 348                       | 15                          | 410                | 406    | 308                                | 2.872             | 0.008                            | 2.980                                     | 3.248                         | 47.794                    |
| 39      | 136  | 137        | 4                            | 4                                      | 4                                   | 4   | 4                              | 20            | 24                        | 4                           | 68                 | 48     | 89                                 | 2.215             | 0.007                            | 0.009                                     | 0.203                         | 47.793                    |
| 40      | 138  | 139        | 11                           | 11                                     | 11                                  | 11  | 11                             | 8             | 11                        | 7                           | 81                 | 68     | 65                                 | 2.145             | 0.001                            | 0.006                                     | 0.325                         | 47.629                    |
| 41      | 140  | 141        | 4                            | 4                                      | 4                                   | 4   | 4                              | 20            | 24                        | 4                           | 68                 | 48     | 89                                 | 2.215             | 0.001                            | 0.009                                     | 0.348                         | 47.680                    |
| 42      | 142  | 143        | 4                            | 4                                      | 4                                   | 4   | 4                              | 20            | 24                        | 4                           | 68                 | 48     | 89                                 | 2.215             | 0.001                            | 0.009                                     | 0.348                         | 47.680                    |
| 43      | 144  | 145        | 11                           | 11                                     | 11                                  | 11  | 11                             | 8             | 11                        | 7                           | 81                 | 68     | 65                                 | 2.145             | 0.001                            | 0.006                                     | 0.325                         | 47.629                    |
| 44      | 146  | 147        | 12                           | 12                                     | 12                                  | 12  | 12                             | 11            | 12                        | 10                          | 119                | 65     | 65                                 | 2.168             | 0.003                            | 0.006                                     | 0.005                         | 47.589                    |
| 45      | 148  | 149        | 8                            | 8                                      | 8                                   | 8   | 8                              | 29            | 34                        | 4                           | 88                 | 68     | 80                                 | 2.226             | 0.001                            | 0.008                                     | 0.330                         | 47.470                    |
| 46      | 150  | 151        | 7                            | 7                                      | 7                                   | 7   | 7                              | 29            | 34                        | 4                           | 88                 | 68     | 80                                 | 2.226             | 0.001                            | 0.008                                     | 0.330                         | 47.470                    |
| 47      | 152  | 153        | 4                            | 4                                      | 4                                   | 4   | 4                              | 34            | 34                        | 3                           | 101                | 54     | 65                                 | 2.134             | 0.001                            | 0.007                                     | 0.373                         | 47.277                    |
| 48      | 154  | 155        | 7                            | 7                                      | 7                                   | 7   | 7                              | 31            | 31                        | 19                          | 112                | 47     | 80                                 | 2.086             | 0.018                            | 0.411                                     | 0.148                         | 46.816                    |
| 49      | 156  | 157        | 3                            | 3                                      | 3                                   | 3   | 3                              | 117           | 117                       | 20                          | 137                | 71     | 150                                | 2.384             | 0.005                            | 0.347                                     | 0.271                         | 46.709                    |
| 50      | 158  | 159        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 18                          | 207                | 64     | 100                                | 2.000             | 0.004                            | 0.271                                     | 0.582                         | 46.498                    |
| 51      | 160  | 161        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 18                          | 207                | 64     | 100                                | 2.000             | 0.005                            | 0.343                                     | 0.551                         | 46.449                    |
| 52      | 162  | 163        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 53      | 164  | 165        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 54      | 166  | 167        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 55      | 168  | 169        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 56      | 170  | 171        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 57      | 172  | 173        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 58      | 174  | 175        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 59      | 176  | 177        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 60      | 178  | 179        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 61      | 180  | 181        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 62      | 182  | 183        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 63      | 184  | 185        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 64      | 186  | 187        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 65      | 188  | 189        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 66      | 190  | 191        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 67      | 192  | 193        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 68      | 194  | 195        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 69      | 196  | 197        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 70      | 198  | 199        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 71      | 200  | 201        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 72      | 202  | 203        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 73      | 204  | 205        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 74      | 206  | 207        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 75      | 208  | 209        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 76      | 210  | 211        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 77      | 212  | 213        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 78      | 214  | 215        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |
| 79      | 216  | 217        | 8                            | 8                                      | 8                                   | 8   | 8                              | 121           | 121                       | 17                          | 194                | 31     | 150                                | 2.244             | 0.001                            | 0.012                                     | 0.542                         | 46.402                    |

SUB WORK No. 2

SEWERAGE SCHEME

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90825 ACRES (MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39 PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No.   | Description  |       |      |   |                       | Amount (RS)                |
|---|--|-------|------|---|-----------------------|----------------------------|
| 1   | Providing, laying, jointing and testing Sewer pipe lines (stoneware pipes class SP-1/DWC/NP3 pipe) including fittings, valves, Manholes & cost of excavation and connect to STP. |       |      |   |                       |                            |
| a)  | 200 mm dia Average Depth upto 3 Mtr.   | 11473 | Mtr. | @ | Rs. 1,700             | Rs. 1,95,04,100.00         |
| b)  | 250 mm dia Average Depth upto 3 Mtr.   | 805   | Mtr. | @ | Rs. 2,400             | Rs. 19,32,000.00           |
| c)  | 300 mm dia Average Depth upto 3 Mtr.   | 168   | Mtr. | @ | Rs. 2,800             | Rs. 4,70,400.00            |
| d)  | 400 mm dia Average Depth upto 3.5 Mtr.   | 423   | Mtr. | @ | Rs. 3,500             | Rs. 14,80,500.00           |
| e)  | 500 mm dia Average Depth upto 3.5 Mtr.   | 997   | Mtr. | @ | Rs. 4,500             | Rs. 44,86,500.00           |
| f)  | 600 mm dia Average Depth upto 3.5 Mtr.   | 5     | Mtr. | @ | Rs. 5,500             | Rs. 27,500.00              |
| 2   | Sewage Treatment Plant of (including civil & Mechanical equipment)   | 2700  | KL   | @ | Rs 50,000 /KL         | Rs. 13,50,00,000.00        |
|   |  |       |      |   | 16000                 | 432 cr /k                  |
| 3   | Providing & installing submersible pumping set of following capacity for sewage lifting including valve & electrical panel etc. (including sump civil cost)                      |       |      |   |                       |                            |
| a)  | Capacity 800 LPM each pumps @ 9 mtr. For sewage sump-1   | 3     | Nos. | @ | Rs. 5,50,000.00 each. | Rs. 16,50,000.00           |
| b)  | Capacity 1350 LPM each pumps @ 9 mtr. For sewage sump-2  | 4     | Nos. | @ | Rs. 6,50,000.00 each. | Rs. 26,00,000.00           |
| c)  | Capacity 200 LPM each pumps @ 9 mtr. For sewage sump-3   | 2     | Nos. | @ | Rs. 2,50,000.00 each. | Rs. 5,00,000.00            |
| d)  | Capacity 450 LPM each pumps @ 9 mtr. For sewage sump-3   | 3     | Nos. | @ | Rs. 4,00,000.00 each. | Rs. 12,00,000.00           |
| 4   | Providing, laying, jointing and testing Sump riser & STP overflow pipe lines (HDPE pipe) including fittings & cost of excavation   |       |      |   |                       |                            |
| a)  | 90 OD. From sewer sump-3 to MH   | 91    | Mtr. | @ | Rs. 1,300             | Rs. 1,18,300.00            |
| b)  | 125OD. From sewer sump-4 to MH   | 15    | Mtr. | @ | Rs. 1,500             | Rs. 22,500.00              |
| c)  | 160OD. From sewer sump-1 to MH   | 67    | Mtr. | @ | Rs. 2,000             | Rs. 1,34,000.00            |
| d)  | 250OD. From sewer sump-2 to MH & STP overflow  | 668   | Mtr. | @ | Rs. 3,000             | Rs. 20,04,000.00           |
| 5   | Provision for providing oblique junctions (L.S)  |       |      |   |                       | Rs. 4,00,000.00            |
| 6   | Provision for temporary timbering etc. (L.S)   |       |      |   |                       | Rs. 5,50,000.00            |
| 7   | Provision for carriage of material (L.S)   |       |      |   |                       | Rs. 6,00,000.00            |
| 8   | Provision for making connection with HSVP sewer  |       |      |   |                       | Rs. 4,00,000.00            |
| <b>TOTAL CD to FINAL ABSTRACT OF QUANTITY</b> |  |       |      |   |                       | <b>Rs. 17,90,79,800.00</b> |
|   |  |       |      |   |                       | 8169.72 /s                 |



| MATERIAL STATEMENT FOR SEWER |      |        |                   |                |             |     |     |     |     |     |
|------------------------------|------|--------|-------------------|----------------|-------------|-----|-----|-----|-----|-----|
| Sl<br>NO.                    | LINE |        | Length of<br>line | Dia of<br>Pipe | DIA OF PIPE |     |     |     |     |     |
|                              |      |        |                   |                | IN (MM)     |     |     |     |     |     |
|                              |      |        |                   |                | 200         | 250 | 300 | 400 | 500 | 600 |
|                              |      |        | Mtr               | MM             |             |     |     |     |     |     |
| 1                            | S1   | S3     | 375               | 200            | 375         | -   | -   | -   | -   | -   |
| 2                            | S2   | S3     | 178               | 200            | 178         | -   | -   | -   | -   | -   |
| 3                            | S3   | S5     | 62                | 200            | 62          | -   | -   | -   | -   | -   |
| 4                            | S4   | S5     | 164               | 200            | 164         | -   | -   | -   | -   | -   |
| 5                            | S5   | S23    | 66                | 200            | 66          | -   | -   | -   | -   | -   |
| 6                            | S6   | S8     | 349               | 200            | 349         | -   | -   | -   | -   | -   |
| 7                            | S7   | S8     | 287               | 200            | 287         | -   | -   | -   | -   | -   |
| 8                            | S8   | S10    | 27                | 200            | 27          | -   | -   | -   | -   | -   |
| 9                            | S9   | S10    | 298               | 200            | 298         | -   | -   | -   | -   | -   |
| 10                           | S10  | S22    | 57                | 200            | 57          | -   | -   | -   | -   | -   |
| 11                           | S11  | S13    | 21                | 200            | 21          | -   | -   | -   | -   | -   |
| 12                           | S12  | S13    | 173               | 200            | 173         | -   | -   | -   | -   | -   |
| 13                           | S13  | S15    | 33                | 200            | 33          | -   | -   | -   | -   | -   |
| 14                           | S14  | S15    | 163               | 200            | 163         | -   | -   | -   | -   | -   |
| 15                           | S15  | S17    | 73                | 200            | 73          | -   | -   | -   | -   | -   |
| 16                           | S16  | S17    | 136               | 200            | 136         | -   | -   | -   | -   | -   |
| 17                           | S17  | S19    | 33                | 200            | 33          | -   | -   | -   | -   | -   |
| 18                           | S18  | S19    | 126               | 200            | 126         | -   | -   | -   | -   | -   |
| 19                           | S19  | S21    | 69                | 200            | 69          | -   | -   | -   | -   | -   |
| 20                           | S20  | S21    | 127               | 200            | 127         | -   | -   | -   | -   | -   |
| 21                           | S21  | S22    | 21                | 200            | 21          | -   | -   | -   | -   | -   |
| 22                           | S22  | S23    | 201               | 250            | -           | 201 | -   | -   | -   | -   |
| 23                           | S23  | SUMP-1 | 157               | 400            | -           | -   | -   | 157 | -   | -   |
| 24                           | S1   | S3     | 60                | 200            | 60          | -   | -   | -   | -   | -   |
| 25                           | S2   | S3     | 30                | 200            | 30          | -   | -   | -   | -   | -   |
| 26                           | S3   | S5     | 48                | 200            | 48          | -   | -   | -   | -   | -   |
| 27                           | S4   | S5     | 86                | 200            | 86          | -   | -   | -   | -   | -   |
| 28                           | S5   | S7     | 48                | 200            | 48          | -   | -   | -   | -   | -   |
| 29                           | S6   | S7     | 86                | 200            | 86          | -   | -   | -   | -   | -   |
| 30                           | S7   | S9     | 48                | 200            | 48          | -   | -   | -   | -   | -   |
| 31                           | S8   | S9     | 77                | 200            | 77          | -   | -   | -   | -   | -   |
| 32                           | S9   | S11    | 47                | 200            | 47          | -   | -   | -   | -   | -   |
| 33                           | S10  | S11    | 87                | 400            | -           | -   | -   | 87  | -   | -   |
| 34                           | S11  | S13    | 52                | 400            | -           | -   | -   | 52  | -   | -   |
| 35                           | S12  | S13    | 231               | 200            | 231         | -   | -   | -   | -   | -   |
| 36                           | S13  | S20    | 43                | 400            | -           | -   | -   | 43  | -   | -   |
| 37                           | S14  | S16    | 128               | 200            | 128         | -   | -   | -   | -   | -   |
| 38                           | S15  | S16    | 195               | 200            | 195         | -   | -   | -   | -   | -   |
| 39                           | S16  | S18    | 52                | 200            | 52          | -   | -   | -   | -   | -   |
| 40                           | S17  | S18    | 81                | 200            | 81          | -   | -   | -   | -   | -   |
| 41                           | S18  | S20    | 52                | 200            | 52          | -   | -   | -   | -   | -   |
| 42                           | S19  | S20    | 78                | 200            | 78          | -   | -   | -   | -   | -   |
| 43                           | S20  | S22    | 21                | 500            | -           | -   | -   | -   | 21  | -   |
| 44                           | S21  | S22    | 160               | 200            | 160         | -   | -   | -   | -   | -   |
| 45                           | S22  | S24    | 36                | 500            | -           | -   | -   | -   | 36  | -   |
| 46                           | S23  | S24    | 42                | 200            | 42          | -   | -   | -   | -   | -   |
| 47                           | S24  | S27    | 73                | 500            | -           | -   | -   | -   | 73  | -   |
| 48                           | S25  | S27    | 105               | 200            | 105         | -   | -   | -   | -   | -   |
| 49                           | S26  | S27    | 196               | 200            | 196         | -   | -   | -   | -   | -   |
| 50                           | S27  | S30    | 82                | 500            | -           | -   | -   | -   | 82  | -   |
| 51                           | S28  | S30    | 100               | 200            | 100         | -   | -   | -   | -   | -   |
| 52                           | S29  | S30    | 208               | 200            | 208         | -   | -   | -   | -   | -   |
| 53                           | S30  | S33    | 33                | 500            | -           | -   | -   | -   | 33  | -   |
| 54                           | S31  | S33    | 104               | 200            | 104         | -   | -   | -   | -   | -   |
| 55                           | S32  | S33    | 208               | 200            | 208         | -   | -   | -   | -   | -   |
| 56                           | S33  | S36    | 77                | 500            | -           | -   | -   | -   | 77  | -   |
| 57                           | S34  | S36    | 104               | 200            | 104         | -   | -   | -   | -   | -   |
| 58                           | S35  | S36    | 208               | 200            | 208         | -   | -   | -   | -   | -   |
| 59                           | S36  | S39    | 33                | 500            | -           | -   | -   | -   | 33  | -   |



|              |     |          |              |     |              |            |            |            |            |          |
|--------------|-----|----------|--------------|-----|--------------|------------|------------|------------|------------|----------|
| 60           | S37 | S39      | 104          | 200 | 104          | -          | -          | -          | -          | -        |
| 61           | S38 | S39      | 175          | 200 | 175          | -          | -          | -          | -          | -        |
| 62           | S39 | S44      | 77           | 500 | -            | -          | -          | -          | 77         | -        |
| 63           | S40 | S42      | 313          | 200 | 313          | -          | -          | -          | -          | -        |
| 64           | S41 | S42      | 31           | 200 | 31           | -          | -          | -          | -          | -        |
| 65           | S42 | S44      | 126          | 200 | 126          | -          | -          | -          | -          | -        |
| 66           | S43 | S44      | 192          | 200 | 192          | -          | -          | -          | -          | -        |
| 67           | S44 | S45      | 28           | 500 | -            | -          | -          | -          | 28         | -        |
| 68           | S45 | Sump-2   | 5            | 500 | -            | -          | -          | -          | 5          | -        |
| 69           | S1  | S2       | 245          | 200 | 245          | -          | -          | -          | -          | -        |
| 70           | S2  | Sump-3   | 5            | 200 | 5            | -          | -          | -          | -          | -        |
| 71           | S1  | S3       | 172          | 200 | 172          | -          | -          | -          | -          | -        |
| 72           | S2  | S3       | 190          | 200 | 190          | -          | -          | -          | -          | -        |
| 73           | S3  | S6       | 33           | 200 | 33           | -          | -          | -          | -          | -        |
| 74           | S4  | S6       | 173          | 200 | 173          | -          | -          | -          | -          | -        |
| 75           | S5  | S6       | 204          | 200 | 204          | -          | -          | -          | -          | -        |
| 76           | S6  | S8       | 85           | 200 | 85           | -          | -          | -          | -          | -        |
| 77           | S7  | S8       | 173          | 200 | 173          | -          | -          | -          | -          | -        |
| 78           | S8  | S18      | 318          | 250 | -            | 318        | -          | -          | -          | -        |
| 79           | S9  | S11      | 150          | 200 | 150          | -          | -          | -          | -          | -        |
| 80           | S10 | S11      | 197          | 200 | 197          | -          | -          | -          | -          | -        |
| 81           | S11 | S13      | 28           | 200 | 28           | -          | -          | -          | -          | -        |
| 82           | S12 | S13      | 186          | 200 | 186          | -          | -          | -          | -          | -        |
| 83           | S13 | S15      | 20           | 200 | 20           | -          | -          | -          | -          | -        |
| 84           | S14 | S15      | 140          | 200 | 140          | -          | -          | -          | -          | -        |
| 85           | S15 | S17      | 65           | 200 | 65           | -          | -          | -          | -          | -        |
| 86           | S16 | S17      | 139          | 200 | 139          | -          | -          | -          | -          | -        |
| 87           | S17 | S18      | 105          | 200 | 105          | -          | -          | -          | -          | -        |
| 88           | S18 | S24      | 105          | 250 | -            | 105        | -          | -          | -          | -        |
| 89           | S19 | S21      | 87           | 200 | 87           | -          | -          | -          | -          | -        |
| 90           | S20 | S21      | 56           | 200 | 56           | -          | -          | -          | -          | -        |
| 91           | S21 | S23      | 117          | 200 | 117          | -          | -          | -          | -          | -        |
| 92           | S22 | S23      | 204          | 200 | 204          | -          | -          | -          | -          | -        |
| 93           | S23 | S24      | 244          | 200 | 244          | -          | -          | -          | -          | -        |
| 94           | S24 | SUMP-4   | 2            | 250 | -            | 2          | -          | -          | -          | -        |
| 95           | S1  | S2       | 172          | 200 | 172          | -          | -          | -          | -          | -        |
| 96           | S2  | S4       | 90           | 500 | -            | -          | -          | -          | 90         | -        |
| 97           | S3  | S4       | 165          | 200 | 165          | -          | -          | -          | -          | -        |
| 98           | S4  | S6       | 33           | 500 | -            | -          | -          | -          | 33         | -        |
| 99           | S5  | S8       | 177          | 200 | 177          | -          | -          | -          | -          | -        |
| 100          | S6  | S8       | 85           | 500 | -            | -          | -          | -          | 85         | -        |
| 101          | S7  | S8       | 177          | 200 | 177          | -          | -          | -          | -          | -        |
| 102          | S8  | S10      | 22           | 500 | -            | -          | -          | -          | 22         | -        |
| 103          | S9  | S10      | 174          | 200 | 174          | -          | -          | -          | -          | -        |
| 104          | S10 | S12      | 101          | 500 | -            | -          | -          | -          | 101        | -        |
| 105          | S11 | S12      | 182          | 200 | 182          | -          | -          | -          | -          | -        |
| 106          | S12 | S24      | 201          | 500 | -            | -          | -          | -          | 201        | -        |
| 107          | S13 | S15      | 218          | 200 | 218          | -          | -          | -          | -          | -        |
| 108          | S14 | S15      | 143          | 250 | -            | 143        | -          | -          | -          | -        |
| 109          | S15 | S17      | 36           | 250 | -            | 36         | -          | -          | -          | -        |
| 110          | S16 | S17      | 157          | 200 | 157          | -          | -          | -          | -          | -        |
| 111          | S17 | S19      | 63           | 300 | -            | -          | 63         | -          | -          | -        |
| 112          | S18 | S19      | 157          | 200 | 157          | -          | -          | -          | -          | -        |
| 113          | S19 | S21      | 72           | 300 | -            | -          | 72         | -          | -          | -        |
| 114          | S20 | S21      | 157          | 200 | 157          | -          | -          | -          | -          | -        |
| 115          | S21 | S23      | 33           | 300 | -            | -          | 33         | -          | -          | -        |
| 116          | S22 | S23      | 157          | 200 | 157          | -          | -          | -          | -          | -        |
| 117          | S23 | S24      | 74           | 400 | -            | -          | -          | 74         | -          | -        |
| 118          | S24 | STP SUMP | 5            | 600 | -            | -          | -          | -          | -          | 5        |
| <b>TOATL</b> |     |          | <b>13871</b> |     | <b>11473</b> | <b>805</b> | <b>168</b> | <b>423</b> | <b>997</b> | <b>5</b> |





RESIDENTIAL INCORPORATED TOWNSHIP (UNDER MLP-SECI) OVER AN AREA MEASURING 351.8025 ACRES (PROTRATED) FROM LICENSE NO. 08 OF 2010 DATED 14.10.2010 OF 314.6 ACRES AT SECTION 36.17, 36.29 PARAPAT BEANS DEVELOPED BY M/S. UTTARA INFRA PROJECTS PRIVATE LIMITED.

SERIAL STATEMENT OF SEWERAGE LINE

| S No                                | From | To      | Mtr | Length | Pipe |        | Total Population @11.3 PER PLOT | Daily water @155 In Person | Water requirement |       | Total water consumption | Daily waste water (DW) of water consumption | Total Waste water (waste water) (m <sup>3</sup> /day) | Ons Proposed | Effluent Velocity | Design Headings | Check for existing capacity | Fall in (m) | G Level |         | Invert Level (Upper) | Invert Level (Lower) | Depth Black | Depth Red |      |
|-------------------------------------|------|---------|-----|--------|------|--------|---------------------------------|----------------------------|-------------------|-------|-------------------------|---|---|--------------|-------------------|-----------------|-----------------------------|-------------|---------|---------|----------------------|----------------------|-------------|-----------|------|
|                                     |      |         |     |        | Self | Branch |                                 |                            | Upper             | Lower |                         |   |   |              |                   |                 |                             |             |         |         |                      |                      |             |           |      |
| <b>MLP RIGHT SIDE SEWER SLUMP-2</b> |      |         |     |        |      |        |                                 |                            |                   |       |                         |   |   |              |                   |                 |                             |             |         |         |                      |                      |             |           |      |
| 1                                   | 51   | 52      | 376 | 30     | 0    | 36     | 527                             | 81685                      | 0                 | 0     | 0                       | 65248                                       | 150244  | 227          | 200               | 0.68            | 10.37                       | OK          | 1.50    | 233.463 | 233.160              | 233.663              | 233.266     | 0.00      | 1.48 |
| 2                                   | 52   | 53      | 170 | 31     | 0    | 31     | 429                             | 84949                      | 0                 | 0     | 0                       | 31226                                       | 152688  | 1.80         | 200               | 0.68            | 10.37                       | OK          | 1.17    | 233.053 | 233.189              | 233.053              | 233.187     | 0.00      | 1.18 |
| 3                                   | 53   | 54      | 62  | 78     | 0    | 78     | 2653                            | 162715                     | 0                 | 0     | 0                       | 183717                                      | 433178  | 4.93         | 200               | 0.65            | 10.37                       | OK          | 0.25    | 233.760 | 233.086              | 232.259              | 232.951     | 1.40      | 1.65 |
| 4                                   | 54   | 55      | 154 | 45     | 0    | 45     | 1670                            | 83320                      | 0                 | 0     | 0                       | 87700                                       | 200850  | 2.33         | 200               | 0.65            | 10.37                       | OK          | 0.08    | 233.623 | 233.086              | 233.623              | 233.147     | 0.30      | 0.75 |
| 5                                   | 55   | 523     | 66  | 0      | 110  | 118    | 1548                            | 240075                     | 0                 | 0     | 0                       | 163552                                      | 660568  | 8.89         | 200               | 0.65            | 10.37                       | OK          | 0.28    | 233.686 | 233.512              | 233.581              | 233.197     | 1.85      | 2.13 |
| 6                                   | 55   | 58      | 346 | 22     | 0    | 22     | 297                             | 46326                      | 0                 | 0     | 0                       | 48305                                       | 114684  | 1.29         | 200               | 0.56            | 10.37                       | OK          | 1.43    | 234.578 | 234.222              | 234.578              | 233.183     | 0.00      | 1.84 |
| 7                                   | 57   | 58      | 207 | 48     | 0    | 48     | 342                             | 83708                      | 0                 | 0     | 0                       | 68863                                       | 208862  | 2.33         | 200               | 0.66            | 10.37                       | OK          | 1.15    | 234.510 | 234.222              | 234.510              | 233.262     | 0.00      | 1.80 |
| 8                                   | 58   | 510     | 37  | 3      | 62   | 64     | 864                             | 132626                     | 0                 | 0     | 0                       | 137130                                      | 321408  | 3.72         | 200               | 0.58            | 10.37                       | OK          | 0.11    | 234.222 | 234.222              | 234.222              | 233.183     | 0.00      | 1.85 |
| 9                                   | 58   | 510     | 208 | 43     | 0    | 43     | 567                             | 87985                      | 0                 | 0     | 0                       | 70300                                       | 279204  | 2.44         | 200               | 0.68            | 10.37                       | OK          | 1.18    | 234.879 | 234.727              | 234.879              | 233.376     | 0.00      | 1.80 |
| 10                                  | 570  | 502     | 87  | 0      | 109  | 112    | 1512                            | 234368                     | 0                 | 0     | 0                       | 181480                                      | 562484  | 8.51         | 200               | 0.68            | 10.37                       | OK          | 0.23    | 234.222 | 234.144              | 233.078              | 232.847     | 1.78      | 1.50 |
| 11                                  | 511  | 512     | 25  | 3      | 8    | 3      | 41                              | 6290                       | 0                 | 0     | 0                       | 8368  | 15262   | 0.18         | 200               | 0.68            | 10.37                       | OK          | 0.08    | 234.489 | 234.287              | 234.489              | 234.225     | 0.00      | 0.00 |
| 12                                  | 512  | 513     | 173 | 14     | 8    | 18     | 189                             | 26285                      | 0                 | 0     | 0                       | 28098                                       | 12708   | 0.01         | 200               | 0.65            | 10.37                       | OK          | 0.68    | 234.227 | 234.257              | 234.227              | 233.525     | 0.00      | 0.52 |
| 13                                  | 513  | 515     | 33  | 3      | 17   | 20     | 270                             | 41650                      | 0                 | 0     | 0                       | 25489                                       | 100442  | 1.18         | 200               | 0.68            | 10.37                       | OK          | 0.11    | 234.357 | 234.334              | 233.835              | 233.703     | 0.33      | 0.81 |
| 14                                  | 514  | 515     | 183 | 11     | 8    | 8      | 140                             | 28886                      | 0                 | 0     | 0                       | 27095                                       | 18471   | 0.64         | 200               | 0.60            | 10.37                       | OK          | 0.88    | 234.603 | 234.336              | 234.603              | 233.041     | 0.00      | 0.48 |
| 15                                  | 516  | 517     | 73  | 8      | 31   | 27     | 180                             | 27000                      | 0                 | 0     | 0                       | 77500                                       | 160000  | 2.13         | 200               | 0.66            | 10.37                       | OK          | 0.29    | 234.284 | 234.282              | 234.282              | 233.913     | 0.00      | 0.88 |
| 16                                  | 516  | 517     | 135 | 10     | 0    | 10     | 136                             | 20825                      | 0                 | 0     | 0                       | 20825                                       | 10743   | 0.88         | 200               | 0.66            | 10.37                       | OK          | 0.34    | 234.422 | 234.252              | 234.422              | 233.000     | 0.00      | 0.30 |
| 17                                  | 517  | 519     | 32  | 2      | 47   | 48     | 851                             | 120671                     | 0                 | 0     | 0                       | 87885                                       | 248264  | 2.85         | 200               | 0.68            | 10.37                       | OK          | 0.12    | 234.282 | 234.228              | 233.611              | 233.279     | 0.00      | 0.85 |
| 18                                  | 518  | 519     | 280 | 11     | 0    | 11     | 349                             | 23256                      | 0                 | 0     | 0                       | 28896                                       | 96426   | 3.04         | 200               | 0.68            | 10.37                       | OK          | 0.02    | 234.364 | 234.228              | 234.364              | 233.860     | 0.00      | 0.37 |
| 19                                  | 518  | 521     | 68  | 8      | 60   | 68     | 861                             | 136338                     | 0                 | 0     | 0                       | 133195                                      | 170484  | 3.34         | 200               | 0.68            | 10.37                       | OK          | 0.28    | 234.298 | 234.144              | 233.278              | 233.200     | 0.00      | 1.14 |
| 20                                  | 528  | 521     | 127 | 10     | 0    | 10     | 316                             | 20878                      | 0                 | 0     | 0                       | 20825                                       | 10740   | 0.58         | 200               | 0.66            | 10.37                       | OK          | 0.31    | 235.023 | 234.144              | 234.052              | 233.694     | 0.00      | 0.68 |
| 21                                  | 521  | 522     | 271 | 8      | 78   | 78     | 1106                            | 136628                     | 0                 | 0     | 0                       | 150200                                      | 177224  | 8.42         | 200               | 0.66            | 10.37                       | OK          | 0.08    | 234.144 | 234.144              | 234.052              | 233.919     | 1.14      | 1.23 |
| 22                                  | 522  | 523     | 201 | 20     | 108  | 208    | 3308                            | 432348                     | 0                 | 0     | 0                       | 438740                                      | 104876  | 17.00        | 200               | 0.65            | 10.37                       | OK          | 0.59    | 234.144 | 234.144              | 232.787              | 232.265     | 0.00      | 1.71 |
| 23                                  | 523  | 51869-1 | 107 | 26     | 208  | 264    | 4314                            | 761878                     | 0                 | 0     | 0                       | 838178                                      | 1882028   | 27.08        | 200               | 0.65            | 10.37                       | OK          | 0.27    | 233.318 | 234.008              | 233.587              | 231.322     | 2.33      | 2.74 |
| <b>MLP RIGHT SIDE SEWER SLUMP-3</b> |      |         |     |        |      |        |                                 |                            |                   |       |                         |   |   |              |                   |                 |                             |             |         |         |                      |                      |             |           |      |
| 1                                   | 51   | 53      | 80  | 13     | 0    | 13     | 135                             | 20825                      | 0                 | 0     | 0                       | 20740                                       | 74220   | 1.80         | 200               | 0.68            | 10.37                       | OK          | 0.24    | 234.086 | 234.086              | 234.086              | 233.650     | 0.00      | 0.24 |
| 2                                   | 52   | 53      | 30  | 4      | 0    | 4      | 54                              | 8378                       | 0                 | 0     | 0                       | 8988  | 20085   | 0.23         | 200               | 0.68            | 10.37                       | OK          | 0.12    | 234.086 | 234.086              | 234.086              | 233.871     | 0.00      | 0.19 |
| 3                                   | 53   | 54      | 68  | 6      | 14   | 14     | 270                             | 81880                      | 10000             | 10000 | 11000                   | 41480                                       | 124442  | 1.44         | 200               | 0.68            | 10.37                       | OK          | 0.18    | 234.086 | 234.086              | 233.688              | 233.684     | 0.24      | 0.48 |
| 4                                   | 54   | 55      | 81  | 18     | 8    | 18     | 236                             | 27450                      | 0                 | 0     | 0                       | 20400                                       | 80352   | 0.83         | 200               | 0.68            | 10.37                       | OK          | 0.24    | 234.086 | 234.086              | 234.086              | 233.752     | 0.00      | 0.24 |
| 5                                   | 55   | 57      | 45  | 7      | 36   | 43     | 581                             | 80025                      | 10000             | 10000 | 10000                   | 36044                                       | 107131  | 2.78         | 200               | 0.65            | 10.37                       | OK          | 0.13    | 234.086 | 234.086              | 233.854              | 233.473     | 0.43      | 0.63 |
| 6                                   | 56   | 57      | 86  | 16     | 0    | 16     | 216                             | 32482                      | 0                 | 0     | 0                       | 28764                                       | 80765   | 0.89         | 200               | 0.65            | 10.37                       | OK          | 0.24    | 234.107 | 234.086              | 234.086              | 233.473     | 0.00      | 0.24 |
| 7                                   | 57   | 59      | 48  | 8      | 58   | 66     | 878                             | 136080                     | 15000             | 15000 | 14000                   | 116872                                      | 300716  | 4.08         | 200               | 0.65            | 10.37                       | OK          | 0.19    | 234.086 | 234.086              | 233.473              | 233.083     | 0.00      | 0.84 |
| 8                                   | 58   | 59      | 77  | 15     | 3    | 18     | 203                             | 27188                      | 0                 | 0     | 0                       | 21762                                       | 73576   | 0.87         | 200               | 0.65            | 10.37                       | OK          | 0.37    | 234.207 | 234.086              | 234.107              | 233.888     | 0.00      | 0.81 |
| 9                                   | 59   | 611     | 47  | 7      | 65   | 72     | 1126                            | 137128                     | 10000             | 10000 | 107128                  | 401100                                      | 1.34  | 200          | 0.68              | 10.37           | OK                          | 0.19        | 234.086 | 234.183 | 233.289              | 233.082              | 0.62        | 1.09      |      |
| 10                                  | 610  | 611     | 97  | 34     | 34   | 420    | 3711                            | 86208                      | 60000             | 60000 | 78164                   | 238462                                      | 26.38   | 600          | 0.68              | 11.48           | OK                          | 0.14        | 234.289 | 234.183 | 234.289              | 234.182              | 0.00        | 0.02      |      |
| 11                                  | 611  | 612     | 52  | 8      | 510  | 510    | 8895                            | 1007175                    | 25000             | 25000 | 813162                  | 1741229                                     | 31.73   | 600          | 0.68              | 11.48           | OK                          | 0.08        | 234.182 | 234.182 | 233.082              | 233.080              | 1.30        | 1.17      |      |
| 12                                  | 612  | 613     | 231 | 38     | 38   | 38     | 818                             | 128558                     | 0                 | 0     | 0                       | 109449                                      | 307320  | 3.49         | 200               | 0.68            | 10.37                       | OK          | 0.02    | 233.926 | 234.183              | 233.926              | 233.878     | 0.00      | 1.11 |
| 13                                  | 613  | 610     | 43  | 8      | 510  | 510    | 7026                            | 136776                     | 60000             | 60000 | 1781728                 | 3082543                                     | 38.21   | 400          | 0.65              | 11.48           | OK                          | 0.07        | 234.182 | 234.182 | 233.082              | 233.871              | 1.17        | 1.13      |      |
| 14                                  | 614  | 610     | 126 | 66     | 881  | 881    | 138108                          | 138108                     | 0                 | 0     | 0                       | 138108                                      | 311432  | 3.84         | 200               | 0.65            | 11.48                       | OK          | 0.14    | 233.828 | 233.864              | 233.828              | 233.811     | 0.00      | 0.88 |
| 15                                  | 615  | 610     | 196 | 43     | 43   | 43     | 881                             | 90965                      | 0                 | 0     | 0                       | 30825                                       | 241132  | 2.52         | 200               | 0.68            | 11.48                       | OK          | 0.28    | 234.182 | 233.964              | 234.182              | 233.217     | 0.00      | 0.89 |
| 16                                  | 616  | 610     | 52  | 7      | 109  | 116    | 7058                            | 242720                     | 0                 | 0     | 0                       | 242720                                      | 607850  | 8.34         | 200               | 0.65            | 10.37                       | OK          | 0.21    | 233.804 | 234.028              | 233.311              | 233.165     | 0.00      | 0.80 |



| S.No  | Lot No. |     | Length | Pit   |       | Total Population @15% + GULLS + FOX + PLUT | Daily water @15% @GULLS @FOX @PLUT | Water requirement (For other buildings (LPG)) |       | Total water consumption | Daily waste water (80% of water consumption) | Total Waste water (secondary treatment @90%) | Total Waste water (tertiary treatment @95%) | Dis. Proposed | Gradient | Velocity | Design flushing capacity | Check for surging capacity | Fall in (m) | O Level |         | I Level |      | Invert Level Lower | Invert Level Upper | Depth Start | Depth End |
|---|---------|-----|--------|-------|-------|--|------------------------------------|---|-------|-------------------------|--|--|---|---------------|----------|----------|--------------------------|----------------------------|-------------|---------|---------|---------|------|--------------------|--------------------|-------------|-----------|
|   | From    | To  |        | Staff | Brach |  |                                    | Staff   | LPG   |                         |  |  |   |               |          |          |                          |                            |             | Staff   | Brach   | Mtr     | Mtr  |                    |                    |             |           |
| 17  | 817     | 818 | 18     | 0     | 0     | 218  | 35480                              | 0   | 0     | 34800                   | LPG  | LPG  | LPG   | 0.00          | 0.00     | 19.37    | OK                       | 0.32                       | 204.11      | 204.028 | 204.10  | 203.777 | 0.00 | 0.26               |                    |             |           |
| 18  | 819     | 820 | 82     | 7     | 132   | 380035                                     | 380035                             | 0   | 0     | 365838                  | 0  | 0  | 0   | 0             | 0        | 19.37    | OK                       | 0.31                       | 204.028     | 204.018 | 204.112 | 203.866 | 0.00 | 0.18               |                    |             |           |
| 19  | 821     | 822 | 78     | 0     | 0     | 318  | 50508                              | 0   | 0     | 50508                   | 0  | 0  | 0   | 0             | 0        | 19.37    | OK                       | 0.31                       | 204.140     | 204.018 | 204.148 | 203.894 | 0.00 | 0.24               |                    |             |           |
| 20  | 823     | 824 | 24     | 0     | 737   | 6850                                       | 1042500                            | 75000   | 75000 | 1817250                 | 0  | 0  | 0   | 0             | 0        | 19.37    | OK                       | 0.32                       | 204.018     | 204.018 | 204.018 | 203.885 | 0.00 | 0.18               |                    |             |           |
| 21  | 825     | 826 | 150    | 0     | 0     | 50   | 18110                              | 0   | 0     | 20110                   | 0  | 0  | 0   | 0             | 0        | 19.37    | OK                       | 0.34                       | 204.300     | 204.018 | 204.300 | 203.680 | 0.00 | 0.41               |                    |             |           |
| 22  | 827     | 828 | 36     | 2     | 740   | 32139                                      | 507500                             | 70000   | 70000 | 1446500                 | 1317250                                      | 3817100                                      | 4574  | 0             | 0        | 19.37    | OK                       | 0.34                       | 204.018     | 204.082 | 204.018 | 203.628 | 0.00 | 0.30               |                    |             |           |
| 23  | 829     | 830 | 47     | 0     | 0     | 311  | 48200                              | 0   | 0     | 49200                   | 30000  | 119000                                       | 134   | 0             | 0        | 19.37    | OK                       | 0.31                       | 204.148     | 204.082 | 204.148 | 203.676 | 0.00 | 0.11               |                    |             |           |
| 24  | 831     | 832 | 73     | 0     | 714   | 30440                                      | 152000                             | 75000   | 75000 | 194300                  | 1315678                                      | 4857028                                      | 4727  | 0             | 0        | 19.37    | OK                       | 0.30                       | 204.300     | 204.300 | 204.300 | 203.889 | 0.00 | 0.21               |                    |             |           |
| 25  | 833     | 834 | 106    | 17    | 0     | 230  | 36000                              | 0   | 0     | 26000                   | 30000  | 85000  | 3190  | 0             | 0        | 19.37    | OK                       | 0.32                       | 204.300     | 204.300 | 204.300 | 203.894 | 0.00 | 0.20               |                    |             |           |
| 26  | 835     | 836 | 166    | 27    | 0     | 365  | 96510                              | 0   | 0     | 56570                   | 46260  | 130180                                       | 157   | 0             | 0        | 19.37    | OK                       | 0.31                       | 204.100     | 204.082 | 204.100 | 203.642 | 0.00 | 0.32               |                    |             |           |
| 27  | 837     | 838 | 82     | 0     | 818   | 11081                                      | 571800                             | 75000   | 75000 | 178880                  | 1428332                                      | 4267988                                      | 4883  | 0             | 0        | 19.37    | OK                       | 0.34                       | 204.300     | 204.300 | 204.300 | 203.861 | 0.00 | 0.27               |                    |             |           |
| 28  | 839     | 840 | 100    | 0     | 0     | 108  | 18740                              | 0   | 0     | 18740                   | 19330  | 40710  | 0   | 0             | 0        | 19.37    | OK                       | 0.30                       | 204.300     | 204.300 | 204.300 | 203.861 | 0.00 | 0.27               |                    |             |           |
| 29  | 841     | 842 | 208    | 11    | 0     | 138  | 17280                              | 0   | 0     | 27280                   | 21810  | 69070  | 0   | 0             | 0        | 19.37    | OK                       | 0.30                       | 204.070     | 204.082 | 204.070 | 203.688 | 0.00 | 0.30               |                    |             |           |
| 30  | 843     | 844 | 33     | 0     | 639   | 806  | 11327                              | 75000   | 75000 | 100000                  | 9440540                                      | 5086   | 0   | 0             | 0        | 19.37    | OK                       | 0.34                       | 204.250     | 204.280 | 204.250 | 203.767 | 0.00 | 0.19               |                    |             |           |
| 31  | 845     | 846 | 154    | 0     | 0     | 188  | 18740                              | 0   | 0     | 18740                   | 13360  | 42130  | 0   | 0             | 0        | 19.37    | OK                       | 0.42                       | 204.415     | 204.280 | 204.415 | 203.980 | 0.00 | 0.29               |                    |             |           |
| 32  | 847     | 848 | 208    | 13    | 0     | 138  | 17280                              | 0   | 0     | 27280                   | 21810  | 69070  | 0   | 0             | 0        | 19.37    | OK                       | 0.33                       | 204.404     | 204.280 | 204.404 | 203.662 | 0.00 | 0.32               |                    |             |           |
| 33  | 849     | 850 | 77     | 0     | 880   | 11110                                      | 179000                             | 75000   | 75000 | 160000                  | 618690                                       | 418690                                       | 5207  | 0             | 0        | 19.37    | OK                       | 0.49                       | 204.208     | 204.250 | 204.208 | 203.276 | 0.00 | 0.48               |                    |             |           |
| 34  | 851     | 852 | 154    | 0     | 0     | 188  | 18740                              | 0   | 0     | 18740                   | 13360  | 42130  | 0   | 0             | 0        | 19.37    | OK                       | 0.42                       | 204.415     | 204.270 | 204.415 | 203.861 | 0.00 | 0.28               |                    |             |           |
| 35  | 853     | 854 | 208    | 13    | 0     | 138  | 17280                              | 0   | 0     | 27280                   | 21810  | 69070  | 0   | 0             | 0        | 19.37    | OK                       | 0.30                       | 204.361     | 204.370 | 204.361 | 203.729 | 0.00 | 0.34               |                    |             |           |
| 36  | 855     | 856 | 33     | 0     | 881   | 11804                                      | 184000                             | 75000   | 75000 | 161670                  | 450490                                       | 52338  | 0   | 0             | 0        | 19.37    | OK                       | 0.34                       | 204.370     | 204.396 | 204.370 | 203.777 | 0.00 | 0.27               |                    |             |           |
| 37  | 857     | 858 | 154    | 0     | 0     | 188  | 18740                              | 0   | 0     | 18740                   | 13360  | 42130  | 0   | 0             | 0        | 19.37    | OK                       | 0.43                       | 204.320     | 204.306 | 204.320 | 204.106 | 0.00 | 0.26               |                    |             |           |
| 38  | 859     | 860 | 178    | 12    | 0     | 180  | 20150                              | 0   | 0     | 20150                   | 20380  | 40380  | 0   | 0             | 0        | 19.37    | OK                       | 0.36                       | 204.361     | 204.370 | 204.361 | 203.861 | 0.00 | 0.31               |                    |             |           |
| 39  | 861     | 862 | 177    | 0     | 861   | 13104                                      | 185600                             | 75000   | 75000 | 168020                  | 168030                                       | 4440   | 0   | 0             | 0        | 19.37    | OK                       | 0.38                       | 204.386     | 204.403 | 204.386 | 203.177 | 0.00 | 0.40               |                    |             |           |
| 40  | 863     | 864 | 213    | 20    | 0     | 270  | 41800                              | 0   | 0     | 34800                   | 10440  | 11000  | 0   | 0             | 0        | 19.37    | OK                       | 0.28                       | 204.344     | 204.411 | 204.344 | 203.962 | 0.00 | 0.32               |                    |             |           |
| 41  | 865     | 866 | 31     | 0     | 0     | 41   | 8300                               | 0   | 0     | 4300                    | 5000   | 15000  | 0   | 0             | 0        | 19.37    | OK                       | 0.32                       | 204.057     | 204.057 | 204.057 | 204.053 | 0.00 | 0.08               |                    |             |           |
| 42  | 867     | 868 | 146    | 23    | 0     | 146  | 20070                              | 0   | 0     | 20070                   | 78000  | 20000  | 0   | 0             | 0        | 19.37    | OK                       | 0.30                       | 204.411     | 204.482 | 204.482 | 203.580 | 0.00 | 0.28               |                    |             |           |
| 43  | 869     | 870 | 162    | 26    | 0     | 162  | 20000                              | 0   | 0     | 20000                   | 68000  | 140000                                       | 0   | 0             | 0        | 19.37    | OK                       | 0.37                       | 204.471     | 204.482 | 204.471 | 203.682 | 0.00 | 0.38               |                    |             |           |
| 44  | 871     | 872 | 36     | 0     | 604   | 13149                                      | 200000                             | 75000   | 75000 | 211000                  | 1600470                                      | 807420                                       | 8870  | 0             | 0        | 19.37    | OK                       | 0.43                       | 204.480     | 204.482 | 204.480 | 203.056 | 0.00 | 0.43               |                    |             |           |
| 45  | 873     | 874 | 5      | 0     | 614   | 13149                                      | 200000                             | 47000   | 47000 | 216000                  | 175000                                       | 518420                                       | 6000  | 0             | 0        | 19.37    | OK                       | 0.31                       | 204.482     | 204.480 | 204.482 | 203.046 | 0.00 | 0.43               |                    |             |           |
| MLP RIGHT SIDE SYSTEM SUMM-2 To MLP Left side MLP |         |     |        |       |       |  |                                    |   |       |                         |  |  |   |               |          |          |                          |                            |             |         |         |         |      |                    |                    |             |           |
| 1   | 81      | 82  | 342    | 0     | 0     | 216  | 61600                              | 0   | 0     | 61600                   | 30400  | 100400                                       | 118   | 0             | 0        | 19.37    | OK                       | 0.36                       | 204.124     | 203.808 | 204.124 | 203.144 | 0.00 | 0.46               |                    |             |           |
| 2   | 83      | 84  | 0      | 0     | 0     | 0  | 0                                  | 0   | 0     | 0                       | 0  | 0  | 0   | 0             | 0        | 19.37    | OK                       | 0.32                       | 203.800     | 203.800 | 203.800 | 203.144 | 0.00 | 0.46               |                    |             |           |
| MLP LEFT SIDE SYSTEM SUMM-4                       |         |     |        |       |       |  |                                    |   |       |                         |  |  |   |               |          |          |                          |                            |             |         |         |         |      |                    |                    |             |           |
| 1   | 81      | 83  | 172    | 7     | 0     | 365  | 58070                              | 0   | 0     | 58070                   | 266700                                       | 266700                                       | 266   | 0             | 0        | 19.37    | OK                       | 0.48                       | 203.680     | 203.680 | 203.680 | 203.170 | 0.00 | 0.48               |                    |             |           |
| 2   | 84      | 85  | 180    | 0     | 0     | 360  | 58110                              | 0   | 0     | 58110                   | 266700                                       | 266700                                       | 266   | 0             | 0        | 19.37    | OK                       | 0.36                       | 203.680     | 203.680 | 203.680 | 203.170 | 0.00 | 0.47               |                    |             |           |
| 3   | 86      | 87  | 33     | 0     | 0     | 33   | 47800                              | 0   | 0     | 47800                   | 234000                                       | 234000                                       | 234   | 0             | 0        | 19.37    | OK                       | 0.13                       | 203.680     | 203.680 | 203.680 | 203.170 | 0.00 | 0.49               |                    |             |           |
| 4   | 88      | 89  | 172    | 0     | 0     | 332  | 180710                             | 0   | 0     | 180710                  | 111200                                       | 40000  | 0   | 0             | 0        | 19.37    | OK                       | 0.68                       | 203.170     | 203.170 | 203.170 | 203.170 | 0.00 | 0.63               |                    |             |           |
| 5   | 90      | 91  | 394    | 14    | 0     | 395  | 30000                              | 0   | 0     | 30000                   | 100000                                       | 100000                                       | 0   | 0             | 0        | 19.37    | OK                       | 0.60                       | 204.300     | 204.300 | 204.300 | 203.864 | 0.00 | 0.54               |                    |             |           |
| 6   | 92      | 93  | 90     | 0     | 60    | 904  | 130000                             | 0   | 0     | 90000                   | 547100                                       | 447400                                       | 511   | 0             | 0        | 19.37    | OK                       | 0.34                       | 203.680     | 203.680 | 203.680 | 203.680 | 0.00 | 1.18               |                    |             |           |
| 7   | 94      | 95  | 173    | 10    | 0     | 325  | 26000                              | 0   | 0     | 26000                   | 107400                                       | 90000  | 0   | 0             | 0        | 19.37    | OK                       | 0.48                       | 203.680     | 203.680 | 203.680 | 203.071 | 0.00 | 0.48               |                    |             |           |
| 8   | 96      | 97  | 316    | 20    | 74    | 1268                                       | 266800                             | 0   | 0     | 266800                  | 600000                                       | 600000                                       | 600   | 0             | 0        | 19.37    | OK                       | 0.34                       | 203.680     | 203.680 | 203.680 | 201.174 | 0.00 | 2.43               |                    |             |           |
| 9   | 98      | 99  | 150    | 0     | 0     | 150  | 180710                             | 0   | 0     | 180710                  | 173200                                       | 52000  | 0   | 0             | 0        | 19.37    | OK                       | 0.60                       | 204.561     | 204.561 | 204.561 | 203.941 | 0.00 | 0.43               |                    |             |           |
| 10  | 100     | 101 | 187    | 12    | 0     | 184  | 20110                              | 0   | 0     | 20110                   | 20080  | 40000  | 0   | 0             | 0        | 19.37    | OK                       | 0.29                       | 204.300     | 204.370 | 204.300 | 203.412 | 0.00 | 0.46               |                    |             |           |



| Station                     | Line No |        | Length | Pipe |        |       | Total Population Served by this PLANT | Daily water @150 GPD/capita | Water requirement |        | Total water consumption | Daily waste water (MGD) of residential | Total waste water (MGD) of residential | Total waste water (MGD) of industrial | Total Waste water (MGD) | Discharge | Velocity | Design discharge capacity | Check for carrying capacity | FWD in (ft) | I Level |         | O Level |         | Depth Start | Depth End |
|-----------------------------|---------|--------|--------|------|--------|-------|---------------------------------------|-----------------------------|-------------------|--------|-------------------------|--|--|---------------------------------------|-------------------------|-----------|----------|---------------------------|-----------------------------|-------------|---------|---------|---------|---------|-------------|-----------|
|                             | From    | To     |        | Mat  | Branch | Total |                                       |                             | Mat               | Branch |                         |  |  |                                       |                         |           |          |                           |                             |             | Mat     | Branch  | Upper   | Lower   |             |           |
| 1                           | 811     | 813    | 28     | 0    | 21     | 21    | 286                                   | 64200                       | 3000              | 3000   | 41200                   | 27016                                  | 15246                                  | 1.31                                  | 200                     | 291       | 19.27    | OK                        | 3.11                        | 234.273     | 234.266 | 233.412 | 233.390 | 0.88    | 1.05        |           |
| 2                           | 812     | 813    | 186    | 0    | 12     | 12    | 25112                                 | 62280                       | 0                 | 0      | 58112                   | 39388                                  | 60264                                  | 0.70                                  | 200                     | 293       | 19.37    | OK                        | 0.74                        | 234.293     | 234.286 | 233.278 | 233.256 | 0.03    | 0.96        |           |
| 3                           | 813     | 815    | 20     | 0    | 33     | 33    | 448                                   | 69156                       | 3000              | 3000   | 72156                   | 47764                                  | 175112                                 | 2.00                                  | 200                     | 293       | 19.37    | OK                        | 0.08                        | 234.354     | 234.354 | 233.300 | 233.278 | 1.56    | 1.11        |           |
| 4                           | 814     | 815    | 146    | 0    | 12     | 12    | 362                                   | 28116                       | 0                 | 0      | 29116                   | 20288                                  | 40288                                  | 0.30                                  | 200                     | 293       | 19.37    | OK                        | 0.26                        | 234.292     | 234.294 | 233.242 | 233.242 | 0.01    | 0.38        |           |
| 5                           | 818     | 817    | 85     | 0    | 45     | 45    | 608                                   | 64248                       | 3000              | 3000   | 67248                   | 77762                                  | 233378                                 | 3.70                                  | 200                     | 296       | 19.37    | OK                        | 0.38                        | 234.334     | 234.334 | 233.220 | 233.220 | 1.11    | 1.29        |           |
| 6                           | 819     | 817    | 158    | 0    | 30     | 30    | 398                                   | 28938                       | 0                 | 0      | 30225                   | 18740                                  | 92220                                  | 0.98                                  | 200                     | 293       | 19.37    | OK                        | 0.46                        | 234.360     | 234.354 | 234.383 | 233.327 | 0.00    | 0.42        |           |
| 7                           | 817     | 819    | 119    | 0    | 55     | 55    | 812                                   | 120550                      | 3000              | 3000   | 128550                  | 103842                                 | 208550                                 | 3.27                                  | 200                     | 293       | 19.37    | OK                        | 0.42                        | 234.264     | 234.264 | 233.880 | 233.843 | 1.36    | 1.83        |           |
| 8                           | 818     | 828    | 128    | 1    | 54     | 54    | 2793                                  | 224412                      | 50000             | 50000  | 274412                  | 267474                                 | 667104                                 | 16.48                                 | 250                     | 343       | 19.02    | OK                        | 0.31                        | 234.144     | 234.100 | 231.714 | 231.488 | 2.43    | 8.81        |           |
| 9                           | 819     | 821    | 87     | 0    | 0      | 0     | 0                                     | 0                           | 0                 | 0      | 80000                   | 40000                                  | 150000                                 | 0.83                                  | 200                     | 293       | 19.37    | OK                        | 0.32                        | 233.961     | 233.898 | 233.901 | 233.373 | 0.00    | 0.49        |           |
| 10                          | 820     | 821    | 56     | 0    | 0      | 0     | 0                                     | 0                           | 0                 | 0      | 40000                   | 40000                                  | 140000                                 | 1.97                                  | 200                     | 293       | 19.37    | OK                        | 0.32                        | 233.827     | 233.898 | 233.927 | 233.433 | 0.00    | 0.27        |           |
| 11                          | 821     | 820    | 117    | 0    | 0      | 0     | 0                                     | 0                           | 0                 | 0      | 40000                   | 40000                                  | 140000                                 | 1.97                                  | 200                     | 293       | 19.37    | OK                        | 0.47                        | 233.898     | 233.762 | 233.213 | 232.145 | 0.48    | 1.02        |           |
| 12                          | 822     | 823    | 254    | 0    | 0      | 0     | 0                                     | 0                           | 0                 | 0      | 0                       | 0                                      | 0                                      | 0                                     | 0                       | 0         | 0        | 0                         | 0.82                        | 234.021     | 233.792 | 234.021 | 233.338 | 0.00    | 0.58        |           |
| 13                          | 823     | 824    | 264    | 0    | 0      | 0     | 0                                     | 0                           | 0                 | 0      | 110000                  | 40000                                  | 270000                                 | 3.10                                  | 200                     | 293       | 19.37    | OK                        | 0.98                        | 233.782     | 234.282 | 232.748 | 231.989 | 1.62    | 2.21        |           |
| 14                          | 824     | 816C-4 | 2      | 0    | 166    | 166   | 2093                                  | 228412                      | 990000            | 990000 | 482476                  | 389622                                 | 1787104                                | 13.88                                 | 260                     | 340       | 18.12    | OK                        | 0.01                        | 234.022     | 234.020 | 231.468 | 231.399 | 2.80    | 2.66        |           |
| HELP LEFT SIDE TO STOP PUMP |         |        |        |      |        |       |                                       |                             |                   |        |                         |  |  |                                       |                         |           |          |                           |                             |             |         |         |         |         |             |           |
| 15                          | 821     | 822    | 172    | 0    | 0      | 0     | 0                                     | 0                           | 0                 | 0      | 40200                   | 37000                                  | 111000                                 | 1.28                                  | 200                     | 290       | 19.37    | OK                        | 0.68                        | 234.726     | 234.630 | 234.726 | 234.548 | 0.30    | 0.58        |           |
| 16                          | 822     | 824    | 86     | 0    | 074    | 074   | 12149                                 | 2329996                     | 244000            | 244000 | 2322085                 | 5022076                                | 5477020                                | 63.30                                 | 500                     | 850       | 19.46    | OK                        | 0.11                        | 234.828     | 234.286 | 233.740 | 233.842 | 0.89    | 0.90        |           |
| 17                          | 823     | 824    | 166    | 0    | 0      | 0     | 135                                   | 30020                       | 0                 | 0      | 29920                   | 18148                                  | 60220                                  | 0.58                                  | 200                     | 290       | 19.37    | OK                        | 0.66                        | 234.726     | 234.688 | 234.726 | 234.378 | 1.00    | 2.47        |           |
| 18                          | 824     | 823    | 33     | 0    | 084    | 084   | 13394                                 | 2266228                     | 244000            | 244000 | 2329200                 | 5022076                                | 5477020                                | 63.37                                 | 500                     | 850       | 19.46    | OK                        | 0.94                        | 234.848     | 234.802 | 233.842 | 233.903 | 0.80    | 0.88        |           |
| 19                          | 824     | 824    | 177    | 0    | 0      | 0     | 149                                   | 32466                       | 0                 | 0      | 29206                   | 18478                                  | 60408                                  | 0.64                                  | 200                     | 290       | 19.37    | OK                        | 0.71                        | 234.712     | 234.602 | 234.712 | 234.094 | 0.70    | 0.82        |           |
| 20                          | 824     | 824    | 82     | 0    | 065    | 065   | 995                                   | 14444                       | 2382718           | 244000 | 2382718                 | 1900000                                | 5882676                                | 64.01                                 | 500                     | 850       | 19.46    | OK                        | 0.30                        | 234.822     | 234.422 | 233.803 | 233.283 | 0.02    | 0.82        |           |
| 21                          | 824     | 810    | 22     | 0    | 1808   | 1808  | 13553                                 | 2108228                     | 244000            | 244000 | 2346628                 | 1870644                                | 5037732                                | 62.25                                 | 500                     | 850       | 19.46    | OK                        | 0.55                        | 234.812     | 234.422 | 234.812 | 234.408 | 0.00    | 0.22        |           |
| 22                          | 824     | 810    | 174    | 0    | 18     | 18    | 136                                   | 27280                       | 0                 | 0      | 27080                   | 170812                                 | 6116436                                | 74.28                                 | 500                     | 850       | 19.46    | OK                        | 0.34                        | 234.812     | 234.422 | 233.803 | 233.477 | 0.00    | 0.94        |           |
| 23                          | 824     | 812    | 120    | 4    | 1918   | 1918  | 13813                                 | 2148728                     | 244000            | 244000 | 2344728                 | 1907794                                | 5722220                                | 66.24                                 | 500                     | 850       | 19.46    | OK                        | 0.70                        | 234.812     | 234.422 | 234.812 | 233.876 | 0.00    | 0.91        |           |
| 24                          | 824     | 812    | 182    | 22   | 0      | 0     | 247                                   | 40228                       | 180000            | 0      | 220328                  | 900000                                 | 942494                                 | 8.29                                  | 200                     | 290       | 19.37    | OK                        | 0.73                        | 234.821     | 234.815 | 234.821 | 233.775 | 0.00    | 0.52        |           |
| 25                          | 824     | 824    | 20     | 0    | 1042   | 1042  | 14513                                 | 2248818                     | 404000            | 404000 | 2872615                 | 2138812                                | 6116436                                | 74.28                                 | 500                     | 850       | 19.46    | OK                        | 0.34                        | 234.815     | 234.817 | 233.803 | 233.422 | 0.00    | 1.02        |           |
| 26                          | 824     | 815    | 278    | 0    | 0      | 0     | 303                                   | 37868                       | 0                 | 0      | 37468                   | 30132                                  | 80286                                  | 1.05                                  | 200                     | 290       | 19.37    | OK                        | 0.67                        | 234.144     | 234.218 | 234.144 | 233.272 | 0.30    | 1.04        |           |
| 27                          | 824     | 815    | 143    | 0    | 195    | 195   | 198                                   | 2320                        | 21540             | 180000 | 0                       | 17944                                  | 14448                                  | 14448                                 | 1.43                    | 200       | 290      | 19.37                     | OK                          | 0.42        | 234.131 | 234.218 | 234.131 | 233.713 | 0.80        | 0.68      |
| 28                          | 824     | 817    | 26     | 4    | 195    | 195   | 232                                   | 238012                      | 180000            | 180000 | 0                       | 97913                                  | 62258                                  | 136684                                | 14.68                   | 200       | 290      | 19.37                     | OK                          | 0.11        | 234.218 | 234.281 | 233.222 | 233.118 | 1.99        | 1.17      |
| 29                          | 824     | 817    | 157    | 0    | 18     | 18    | 136                                   | 27280                       | 0                 | 0      | 27080                   | 17424                                  | 60472                                  | 0.76                                  | 200                     | 290       | 19.37    | OK                        | 0.60                        | 234.150     | 234.281 | 234.150 | 233.482 | 0.90    | 0.81        |           |
| 30                          | 824     | 817    | 63     | 4    | 185    | 185   | 166                                   | 452                         | 396480            | 180000 | 0                       | 40044                                  | 190044                                 | 19.00                                 | 200                     | 290       | 19.37    | OK                        | 0.15                        | 234.281     | 234.279 | 233.095 | 232.820 | 1.32    | 1.30        |           |
| 31                          | 824     | 818    | 187    | 0    | 20     | 20    | 185                                   | 46074                       | 0                 | 0      | 36074                   | 40000                                  | 131700                                 | 1.57                                  | 200                     | 290       | 19.37    | OK                        | 0.60                        | 234.608     | 234.218 | 234.608 | 233.413 | 0.00    | 0.81        |           |
| 32                          | 824     | 821    | 72     | 8    | 294    | 294   | 295                                   | 444028                      | 180000            | 180000 | 0                       | 94538                                  | 58008                                  | 151804                                | 17.57                   | 200       | 290      | 19.37                     | OK                          | 0.17        | 234.218 | 234.147 | 233.800 | 233.752 | 1.30        | 1.30      |
| 33                          | 824     | 821    | 187    | 0    | 18     | 18    | 136                                   | 27280                       | 0                 | 0      | 27080                   | 17424                                  | 60472                                  | 0.76                                  | 200                     | 290       | 19.37    | OK                        | 0.60                        | 234.147     | 234.147 | 233.800 | 233.752 | 1.30    | 1.30        |           |
| 34                          | 824     | 823    | 33     | 4    | 275    | 275   | 327                                   | 387180                      | 80000             | 20000  | 0                       | 20784                                  | 10784                                  | 21.76                                 | 200                     | 290       | 19.37    | OK                        | 0.10                        | 234.147     | 234.147 | 233.752 | 233.752 | 1.30    | 1.47        |           |
| 35                          | 824     | 823    | 187    | 0    | 28     | 28    | 331                                   | 40788                       | 0                 | 0      | 60788                   | 40000                                  | 140000                                 | 1.95                                  | 200                     | 290       | 19.37    | OK                        | 0.60                        | 234.147     | 234.147 | 233.752 | 233.752 | 1.30    | 1.47        |           |
| 36                          | 824     | 824    | 14     | 8    | 280    | 280   | 274                                   | 2698                        | 575240            | 28000  | 25000                   | 65020                                  | 205220                                 | 23.70                                 | 400                     | 850       | 19.46    | OK                        | 0.12                        | 234.147     | 234.147 | 233.425 | 233.425 | 1.57    | 1.57        |           |
| 37                          | 824     | 824    | 8      | 0    | 1348   | 1348  | 18212                                 | 262280                      | 197000            | 0      | 40000                   | 302000                                 | 847664                                 | 80.05                                 | 600                     | 1075      | 19.54    | OK                        | 0.40                        | 234.147     | 234.147 | 233.248 | 233.248 | 1.89    | 1.89        |           |

SUB WORK No. 3

STORM WATER DRAINAGE

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No. | Description  | Amount  |
|-------|--|---|
| 1     | Providing, laying, RCC pipe class NP-3/NP2 excavation, manholes etc. complete in all respects  |   |
| a)    | 400 mm dia Average Depth upto 2 Mtr. 11099 Mtr. @ Rs. <del>3,776</del> <sup>2500</sup>   | Rs. <del>4,19,00,824.00</del> <sup>27748 lacs</sup> |
| b)    | 500 mm dia Average Depth upto 2 Mtr. 881 Mtr. @ Rs. <del>4,600</del> <sup>2700</sup>   | Rs. <del>30,64,600.00</del> <sup>18.39 lacs</sup>   |
| c)    | 600 mm dia Average Depth upto 2 Mtr. 558 Mtr. @ Rs. <del>3,000</del>   | Rs. <del>39,48,000.00</del> <sup>16.74 lacs</sup>   |
| d)    | 700 mm dia Average Depth upto 2 Mtr. 656 Mtr. @ Rs. <del>6,400</del> <sup>3500</sup>   | Rs. <del>41,86,400.00</del> <sup>22.96 lacs</sup>   |
| e)    | 800 mm dia Average Depth upto 2 Mtr. 214 Mtr. @ Rs. <del>8,000</del>   | Rs. <del>14,98,000.00</del> <sup>10.76</sup>        |
| f)    | 900 mm dia Average Depth upto 2.5 Mtr. 135 Mtr. @ Rs. <del>9,000</del> <sup>8200</sup>   | Rs. <del>12,15,000.00</del> <sup>11.67</sup>        |
| g)    | 1000 mm dia Average Depth upto 2.5 Mtr. 359 Mtr. @ Rs. 10,000  | Rs. 35,90,000.00                                    |
| h)    | 1100 mm dia Average Depth upto 2.5 Mtr. 161 Mtr. @ Rs. 13,000  | Rs. 20,93,000.00                                    |
|       |  | <del>20.0</del>                                     |
| 2     | Provision for lighting and watching and temporary diversion of traffic   | Rs. 8,00,000.00                                     |
| 3     | Provision for road gullies & connecting pipe L.S.  | Rs. 4,00,000.00                                     |
| 4     | Provision for rainwater harvesting arrangements for road & green area (excluding plot & amminity area) <sup>at suitable places (L/S)</sup> | Rs. <del>4,50,000.00</del> <sup>700.00 lacs</sup>   |
|       | Rs. <del>4,50,000.00</del> per acre - <del>69.8536</del> <sup>41</sup> Acre  | Rs. <del>4,04,34,075.00</del>                       |
| 5     | Provision for timbering & shoring (L.S.) <sup>cutting of road as existing road (L/S)</sup>   | Rs. 10,00,000.00                                    |
| 6     | Provision for making connection 5 nos with HSVP (L/S)  | Rs. 10,00,000.00                                    |
| 7     | <sup>Prov. for temporary disposal arrangements arrangement</sup><br><del>fill with concrete blocks</del> <sup>(L/S)</sup>                  | Rs. <del>500.00</del>                               |
|       | <b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>  | <b>Rs. 10,71,50,799.00</b><br><b>1694.17 lacs</b>   |



## MATERIAL STATEMENT FOR DRAINAGE

| Sl NO. | LINE |           | Length of line | Dia of Pipe | DIA OF PIPE |    |         |     |     |     |     |     |      |      |
|--------|------|-----------|----------------|-------------|-------------|----|---------|-----|-----|-----|-----|-----|------|------|
|        |      |           |                |             | Mtr         | MM | IN (MM) |     |     |     |     |     |      |      |
|        |      |           |                |             |             |    | 400     | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| 1      | D1   | D3        | 154            | 400         | 154         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 2      | D2   | D3        | 180            | 400         | 180         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 3      | D3   | D6        | 85             | 500         | -           | 95 | -       | -   | -   | -   | -   | -   | -    |      |
| 4      | D4   | D6        | 103            | 400         | 103         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 5      | D5   | D6        | 178            | 400         | 178         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 6      | D6   | D9        | 15             | 500         | -           | 15 | -       | -   | -   | -   | -   | -   | -    |      |
| 7      | D7   | D9        | 180            | 400         | 180         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 8      | D8   | D9        | 103            | 400         | 103         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 9      | D9   | D12       | 95             | 600         | -           | -  | 95      | -   | -   | -   | -   | -   | -    |      |
| 10     | D10  | D12       | 103            | 400         | 103         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 11     | D11  | D12       | 180            | 400         | 180         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 12     | D12  | D15       | 15             | 700         | -           | -  | -       | 15  | -   | -   | -   | -   | -    |      |
| 13     | D13  | D15       | 100            | 400         | 100         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 14     | D14  | D15       | 178            | 400         | 178         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 15     | D15  | D20       | 82             | 700         | -           | -  | -       | 82  | -   | -   | -   | -   | -    |      |
| 16     | D16  | D18       | 270            | 400         | 270         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 17     | D17  | D18       | 23             | 400         | 23          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 18     | D18  | D20       | 118            | 400         | 118         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 19     | D18  | D20       | 208            | 400         | 208         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 20     | D20  | D25       | 83             | 600         | -           | -  | -       | -   | 83  | -   | -   | -   | -    |      |
| 21     | D21  | D23       | 172            | 400         | 172         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 22     | D22  | D23       | 62             | 400         | 62          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 23     | D23  | D24       | 174            | 400         | 174         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 24     | D24  | D26       | 210            | 400         | 210         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 25     | D25  | D26       | 42             | 400         | 42          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 26     | D26  | D28       | 20             | 900         | -           | -  | -       | -   | -   | 20  | -   | -   | -    |      |
| 27     | D27  | D28       | 42             | 400         | 42          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 28     | D28  | D42       | 34             | 900         | -           | -  | -       | -   | -   | 34  | -   | -   | -    |      |
| 29     | D29  | D31       | 51             | 400         | 51          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 30     | D30  | D31       | 37             | 400         | 37          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 31     | D31  | D33       | 48             | 400         | 48          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 32     | D32  | D33       | 77             | 400         | 77          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 33     | D33  | D35       | 48             | 400         | 48          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 34     | D34  | D35       | 77             | 400         | 77          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 35     | D35  | D37       | 48             | 400         | 48          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 36     | D36  | D37       | 68             | 400         | 68          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 37     | D37  | D39       | 40             | 400         | 40          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 38     | D38  | D39       | 77             | 400         | 77          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 39     | D39  | D41       | 52             | 400         | 52          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 40     | D40  | D41       | 234            | 400         | 234         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 41     | D41  | D42       | 53             | 400         | 53          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 42     | D42  | D44       | 44             | 1000        | -           | -  | -       | -   | -   | -   | 44  | -   | -    |      |
| 43     | D43  | D44       | 80             | 400         | 80          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 44     | D44  | D46       | 56             | 1000        | -           | -  | -       | -   | -   | -   | 56  | -   | -    |      |
| 45     | D45  | D46       | 192            | 400         | 192         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 46     | D46  | D47       | 114            | 1100        | -           | -  | -       | -   | -   | -   | -   | 114 | -    |      |
| 47     | D47  | Outfall-1 | 47             | 1100        | -           | -  | -       | -   | -   | -   | -   | 47  | -    |      |
| 48     | D51  | D52       | 47             | 400         | 47          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 49     | D52  | D54       | 240            | 400         | 240         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 50     | D53  | D54       | 17             | 400         | 17          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 51     | D54  | D59       | 207            | 400         | 207         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 52     | D55  | D57       | 153            | 400         | 153         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 53     | D56  | D57       | 37             | 400         | 37          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 54     | D57  | D59       | 15             | 400         | 15          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 55     | D58  | D59       | 143            | 400         | 143         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 56     | D59  | D61       | 91             | 400         | 91          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 57     | D60  | D61       | 146            | 400         | 146         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 58     | D61  | D63       | 15             | 400         | 15          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 59     | D62  | D63       | 120            | 400         | 120         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 60     | D63  | D68       | 79             | 600         | -           | 79 | -       | -   | -   | -   | -   | -   | -    |      |
| 61     | D64  | D66       | 38             | 400         | 38          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 62     | D65  | D66       | 95             | 400         | 95          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 63     | D66  | D67       | 184            | 400         | 184         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 64     | D67  | D68       | 74             | 400         | 74          | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 65     | D68  | D69       | 127            | 600         | -           | -  | 127     | -   | -   | -   | -   | -   | -    |      |
| 66     | D69  | D71       | 55             | 600         | -           | -  | 55      | -   | -   | -   | -   | -   | -    |      |
| 67     | D70  | D71       | 195            | 400         | 195         | -  | -       | -   | -   | -   | -   | -   | -    |      |
| 68     | D71  | D73       | 77             | 700         | -           | -  | -       | 77  | -   | -   | -   | -   | -    |      |
| 69     | D72  | D73       | 147            | 400         | 147         | -  | -       | -   | -   | -   | -   | -   | -    |      |



|       |     |            |       |      |       |     |     |     |     |     |     |     |
|-------|-----|------------|-------|------|-------|-----|-----|-----|-----|-----|-----|-----|
| 70    | D73 | D75        | 54    | 700  | -     | -   | -   | 54  | -   | -   | -   | -   |
| 71    | D74 | D75        | 105   | 400  | 109   | -   | -   | -   | -   | -   | -   | -   |
| 72    | D75 | D77        | 105   | 800  | -     | -   | -   | -   | 105 | -   | -   | -   |
| 73    | D76 | D77        | 255   | 400  | 255   | -   | -   | -   | -   | -   | -   | -   |
| 74    | D77 | Outfall -2 | 10    | 800  | -     | -   | -   | -   | 10  | -   | -   | -   |
| 75    | D48 | D49        | 148   | 400  | 148   | -   | -   | -   | -   | -   | -   | -   |
| 76    | D49 | D50        | 87    | 400  | 87    | -   | -   | -   | -   | -   | -   | -   |
| 77    | D50 | Outfall -3 | 10    | 400  | 10    | -   | -   | -   | -   | -   | -   | -   |
| 78    | D65 | D67        | 22    | 400  | 22    | -   | -   | -   | -   | -   | -   | -   |
| 79    | D66 | D67        | 183   | 400  | 183   | -   | -   | -   | -   | -   | -   | -   |
| 80    | D67 | D69        | 105   | 400  | 105   | -   | -   | -   | -   | -   | -   | -   |
| 81    | D68 | D69        | 184   | 400  | 184   | -   | -   | -   | -   | -   | -   | -   |
| 82    | D69 | D71        | 188   | 400  | 188   | -   | -   | -   | -   | -   | -   | -   |
| 83    | D70 | D71        | 352   | 400  | 352   | -   | -   | -   | -   | -   | -   | -   |
| 84    | D71 | D73        | 75    | 500  | -     | 75  | -   | -   | -   | -   | -   | -   |
| 85    | D72 | D73        | 347   | 400  | 347   | -   | -   | -   | -   | -   | -   | -   |
| 86    | D73 | D75        | 113   | 600  | -     | -   | 113 | -   | -   | -   | -   | -   |
| 87    | D74 | D75        | 154   | 400  | 154   | -   | -   | -   | -   | -   | -   | -   |
| 88    | D75 | D77        | 73    | 600  | -     | -   | 73  | -   | -   | -   | -   | -   |
| 89    | D76 | D77        | 154   | 400  | 154   | -   | -   | -   | -   | -   | -   | -   |
| 90    | D77 | D79        | 15    | 700  | -     | -   | -   | 15  | -   | -   | -   | -   |
| 91    | D78 | D79        | 153   | 400  | 153   | -   | -   | -   | -   | -   | -   | -   |
| 92    | D79 | D81        | 81    | 700  | -     | -   | -   | 81  | -   | -   | -   | -   |
| 93    | D80 | D81        | 154   | 400  | 154   | -   | -   | -   | -   | -   | -   | -   |
| 94    | D81 | D84        | 72    | 700  | -     | -   | -   | 72  | -   | -   | -   | -   |
| 95    | D82 | D83        | 241   | 400  | 241   | -   | -   | -   | -   | -   | -   | -   |
| 96    | D83 | D84        | 160   | 400  | 160   | -   | -   | -   | -   | -   | -   | -   |
| 97    | D84 | D90        | 15    | 800  | -     | -   | -   | -   | 15  | -   | -   | -   |
| 98    | D85 | D86        | 208   | 400  | 208   | -   | -   | -   | -   | -   | -   | -   |
| 99    | D86 | D88        | 73    | 400  | 73    | -   | -   | -   | -   | -   | -   | -   |
| 100   | D87 | D88        | 173   | 400  | 173   | -   | -   | -   | -   | -   | -   | -   |
| 101   | D88 | D89        | 183   | 500  | -     | 183 | -   | -   | -   | -   | -   | -   |
| 102   | D89 | D90        | 234   | 500  | -     | 234 | -   | -   | -   | -   | -   | -   |
| 103   | D90 | D92        | 81    | 900  | -     | -   | -   | -   | -   | 81  | -   | -   |
| 104   | D91 | D92        | 170   | 400  | 170   | -   | -   | -   | -   | -   | -   | -   |
| 105   | D92 | D94        | 100   | 1000 | -     | -   | -   | -   | -   | -   | 109 | -   |
| 106   | D93 | D94        | 53    | 400  | 53    | -   | -   | -   | -   | -   | -   | -   |
| 107   | D94 | D95        | 124   | 1000 | -     | -   | -   | -   | -   | -   | 124 | -   |
| 108   | D95 | Outfall -1 | 26    | 1000 | -     | -   | -   | -   | -   | -   | 26  | -   |
| 109   | D51 | D53        | 405   | 400  | 405   | -   | -   | -   | -   | -   | -   | -   |
| 110   | D52 | D53        | 55    | 400  | 55    | -   | -   | -   | -   | -   | -   | -   |
| 111   | D53 | D56        | 15    | 400  | 15    | -   | -   | -   | -   | -   | -   | -   |
| 112   | D54 | D56        | 402   | 400  | 402   | -   | -   | -   | -   | -   | -   | -   |
| 113   | D55 | D56        | 55    | 400  | 55    | -   | -   | -   | -   | -   | -   | -   |
| 114   | D56 | D58        | 95    | 600  | -     | -   | 95  | -   | -   | -   | -   | -   |
| 115   | D57 | D58        | 285   | 400  | 285   | -   | -   | -   | -   | -   | -   | -   |
| 116   | D58 | D63        | 190   | 700  | -     | -   | -   | 190 | -   | -   | -   | -   |
| 117   | D59 | D60        | 72    | 400  | 72    | -   | -   | -   | -   | -   | -   | -   |
| 118   | D60 | D82        | 15    | 400  | 15    | -   | -   | -   | -   | -   | -   | -   |
| 119   | D61 | D82        | 72    | 400  | 72    | -   | -   | -   | -   | -   | -   | -   |
| 120   | D62 | D63        | 95    | 400  | 95    | -   | -   | -   | -   | -   | -   | -   |
| 121   | D63 | D64        | 60    | 700  | -     | -   | -   | 60  | -   | -   | -   | -   |
| 122   | D64 | Outfall -2 | 10    | 700  | -     | -   | -   | 10  | -   | -   | -   | -   |
| TOTAL |     |            | 13863 |      | 11099 | 581 | 558 | 656 | 214 | 135 | 359 | 161 |





RESIDENTIAL INTEGRATED TOWNSHIP UNDER HELP-2020 OVER AN AREA MEASURING 251.6065 ACRES (NOTIFIED 14.03.2018 AT SECTOR 15, 17, 26, 29 FARMAP BEING DEVELOPED BY M/S. UTTARMA INFRA PROJECTS PRIVATE LIMITED.

| SL. NO.                                | LINE NO. | TO  | FROM | LENGTH | SELF AREA TO BE DRAINAGE IN SQM | AREA IN RECTANGLE |          | VELOCITY | RECHARGE CAPACITY | ORIG. LEVEL AT START | ORIG. LEVEL AT END | FALL    | INVERT LEVEL AT START | INVERT LEVEL AT END | DEPTH AT START | DEPTH AT END |      |      |
|--|----------|-----|------|--------|---------------------------------|-------------------|----------|----------|-------------------|----------------------|--------------------|---------|-----------------------|---------------------|----------------|--------------|------|------|
|  |          |     |      |        |                                 | SELF              | DRAINAGE |          |                   |                      |                    |         |                       |                     |                |              |      |      |
| SECTION OF STORM WATER DRAINAGE SYSTEM |          |     |      |        |                                 |                   |          |          |                   |                      |                    |         |                       |                     |                |              |      |      |
| HELP RIGHT SIDE (OUTFALL-3)            |          |     |      |        |                                 |                   |          |          |                   |                      |                    |         |                       |                     |                |              |      |      |
| 1                                      | D1       | D3  | D4   | 124    | 20185                           | 2.017             | 0.000    | 2.017    | 0.56              | 72.81                | OK                 | 234.027 | 234.482               | 0.31                | 233.26         | 232.95       | 1.40 | 1.53 |
| 2                                      | D3       | D5  | D6   | 191    | 33033                           | 2.301             | 0.000    | 2.303    | 0.56              | 72.81                | OK                 | 234.071 | 234.482               | 0.37                | 233.27         | 232.90       | 1.40 | 1.60 |
| 3                                      | D3       | D6  | D5   | 0      | 0.000                           | 0.000             | 0.000    | 0.000    | 0.56              | 72.81                | OK                 | 234.482 | 234.482               | 0.00                | 233.26         | 232.95       | 1.40 | 1.53 |
| 4                                      | D4       | D6  | D5   | 65     | 7504                            | 0.753             | 0.000    | 0.753    | 0.64              | 72.81                | OK                 | 234.528 | 234.986               | 0.21                | 233.13         | 232.82       | 1.40 | 1.48 |
| 5                                      | D5       | D6  | D5   | 170    | 10227                           | 0.924             | 0.000    | 0.924    | 0.64              | 72.81                | OK                 | 234.588 | 234.986               | 0.38                | 233.15         | 232.83       | 1.40 | 1.58 |
| 6                                      | D6       | D5  | D5   | 15     | 0.000                           | 0.000             | 0.000    | 0.000    | 0.64              | 72.81                | OK                 | 234.986 | 234.986               | 0.00                | 233.66         | 233.66       | 1.74 | 1.74 |
| 7                                      | D7       | D9  | D8   | 160    | 16645                           | 0.885             | 0.000    | 0.885    | 0.64              | 72.81                | OK                 | 234.583 | 234.972               | 0.38                | 233.35         | 233.00       | 1.40 | 1.57 |
| 8                                      | D8       | D9  | D8   | 102    | 7524                            | 0.753             | 0.000    | 0.753    | 0.64              | 72.81                | OK                 | 234.583 | 234.972               | 0.21                | 233.35         | 233.00       | 1.40 | 1.48 |
| 9                                      | D9       | D12 | D9   | 95     | 0                               | 0.000             | 0.745    | 0.745    | 0.64              | 70.03                | OK                 | 234.372 | 234.288               | 0.11                | 232.54         | 232.43       | 1.64 | 1.85 |
| 10                                     | D10      | D12 | D10  | 102    | 7522                            | 0.752             | 0.000    | 0.752    | 0.64              | 72.81                | OK                 | 234.415 | 234.288               | 0.20                | 232.00         | 232.75       | 1.40 | 1.55 |
| 11                                     | D11      | D12 | D11  | 180    | 10204                           | 1.027             | 0.000    | 1.027    | 0.64              | 72.81                | OK                 | 234.494 | 234.288               | 0.20                | 232.00         | 232.75       | 1.40 | 1.55 |
| 12                                     | D12      | D12 | D12  | 15     | 0                               | 0.000             | 0.224    | 0.224    | 0.64              | 222.83               | OK                 | 234.288 | 234.282               | 0.01                | 232.35         | 232.31       | 1.66 | 1.66 |
| 13                                     | D13      | D15 | D13  | 190    | 2274                            | 0.727             | 0.000    | 0.727    | 0.64              | 72.81                | OK                 | 234.291 | 234.262               | 0.20                | 232.59         | 232.79       | 1.40 | 1.47 |
| 14                                     | D14      | D15 | D14  | 170    | 9027                            | 0.904             | 0.000    | 0.904    | 0.64              | 72.81                | OK                 | 234.478 | 234.262               | 0.26                | 232.07         | 232.72       | 1.40 | 1.54 |
| 15                                     | D15      | D15 | D15  | 82     | 0                               | 0.000             | 11.246   | 11.246   | 0.64              | 232.83               | OK                 | 234.262 | 234.167               | 0.08                | 232.31         | 232.24       | 1.95 | 1.87 |
| 16                                     | D16      | D18 | D16  | 270    | 16294                           | 4.802             | 0.000    | 4.802    | 0.64              | 72.81                | OK                 | 234.611 | 234.260               | 0.34                | 233.31         | 232.87       | 1.40 | 1.84 |
| 17                                     | D17      | D18 | D17  | 25     | 0                               | 0.000             | 0.000    | 0.000    | 0.64              | 72.81                | OK                 | 234.344 | 234.260               | 0.08                | 232.54         | 232.50       | 1.40 | 1.41 |
| 18                                     | D18      | D20 | D18  | 150    | 10182                           | 1.515             | 0.002    | 2.817    | 0.64              | 72.81                | OK                 | 234.528 | 234.160               | 0.34                | 232.87         | 232.44       | 1.84 | 1.79 |
| 19                                     | D19      | D20 | D19  | 208    | 15927                           | 1.589             | 0.000    | 1.591    | 0.64              | 72.81                | OK                 | 234.358 | 234.162               | 0.42                | 232.90         | 232.57       | 1.40 | 1.50 |
| 20                                     | D20      | D20 | D20  | 82     | 0                               | 0.000             | 55.456   | 55.456   | 0.64              | 231.50               | OK                 | 234.162 | 234.162               | 0.00                | 232.14         | 232.07       | 2.00 | 2.00 |
| 21                                     | D21      | D23 | D21  | 172    | 8668                            | 0.868             | 0.000    | 0.868    | 0.64              | 72.81                | OK                 | 234.571 | 234.484               | 0.34                | 233.27         | 232.93       | 1.40 | 1.57 |
| 22                                     | D22      | D23 | D22  | 82     | 0                               | 0.000             | 0.000    | 0.000    | 0.64              | 72.81                | OK                 | 234.413 | 234.484               | 0.12                | 232.02         | 232.50       | 1.40 | 1.68 |
| 23                                     | D23      | D24 | D23  | 174    | 9443                            | 0.944             | 0.000    | 1.333    | 0.64              | 72.81                | OK                 | 234.594 | 234.3                 | 0.29                | 232.90         | 232.56       | 1.80 | 1.75 |
| 24                                     | D24      | D25 | D24  | 210    | 12015                           | 1.202             | 1.233    | 2.494    | 0.64              | 72.81                | OK                 | 234.300 | 234.092               | 0.42                | 232.58         | 232.13       | 1.75 | 1.97 |
| 25                                     | D25      | D26 | D25  | 42     | 7628                            | 0.764             | 0.000    | 0.764    | 0.64              | 72.81                | OK                 | 234.146 | 234.092               | 0.08                | 232.75         | 232.68       | 1.40 | 1.43 |
| 26                                     | D26      | D28 | D26  | 30     | 0                               | 0.000             | 18.744   | 18.744   | 0.64              | 264.40               | OK                 | 234.000 | 234.000               | 0.00                | 231.47         | 231.96       | 2.10 | 2.18 |
| 27                                     | D27      | D28 | D27  | 42     | 10200                           | 1.025             | 0.000    | 1.025    | 0.64              | 72.81                | OK                 | 234.000 | 234.000               | 0.00                | 231.47         | 231.96       | 2.10 | 2.18 |
| 28                                     | D28      | D42 | D28  | 34     | 860                             | 0.027             | 15.788   | 15.788   | 0.64              | 304.40               | OK                 | 234.000 | 234.074               | 0.00                | 231.94         | 231.93       | 2.14 | 2.14 |
| 29                                     | D29      | D31 | D29  | 51     | 1727                            | 0.172             | 0.000    | 0.172    | 0.64              | 72.81                | OK                 | 234.096 | 234.096               | 0.11                | 232.70         | 232.59       | 1.40 | 1.30 |
| 30                                     | D30      | D31 | D30  | 37     | 1148                            | 0.115             | 0.000    | 0.115    | 0.64              | 72.81                | OK                 | 234.096 | 234.096               | 0.07                | 232.70         | 232.62       | 1.40 | 1.47 |
| 31                                     | D31      | D33 | D31  | 40     | 2703                            | 0.270             | 0.007    | 0.277    | 0.64              | 72.81                | OK                 | 234.096 | 234.088               | 0.15                | 232.93         | 232.80       | 1.40 | 1.00 |
| 32                                     | D32      | D33 | D32  | 77     | 2644                            | 0.264             | 0.000    | 0.264    | 0.64              | 72.81                | OK                 | 234.096 | 234.088               | 0.15                | 232.70         | 232.54       | 1.40 | 1.05 |
| 33                                     | D33      | D36 | D33  | 40     | 2730                            | 0.274             | 0.002    | 1.180    | 0.64              | 72.81                | OK                 | 234.096 | 234.187               | 0.10                | 232.60         | 232.40       | 1.40 | 1.00 |
| 34                                     | D34      | D36 | D34  | 77     | 2694                            | 0.269             | 0.000    | 0.269    | 0.64              | 72.81                | OK                 | 234.197 | 234.187               | 0.15                | 232.60         | 232.44       | 1.40 | 1.15 |
| 35                                     | D35      | D37 | D35  | 48     | 2737                            | 0.274             | 1.265    | 1.638    | 0.64              | 72.81                | OK                 | 234.197 | 234.187               | 0.10                | 232.40         | 232.31       | 1.40 | 1.88 |
| 36                                     | D36      | D38 | D36  | 68     | 2728                            | 0.273             | 0.000    | 0.273    | 0.64              | 72.81                | OK                 | 234.197 | 234.187               | 0.14                | 232.40         | 232.26       | 1.40 | 1.54 |
| 37                                     | D37      | D38 | D37  | 40     | 2726                            | 0.274             | 1.801    | 2.125    | 0.64              | 72.81                | OK                 | 234.197 | 234.2                 | 0.08                | 232.31         | 232.23       | 1.66 | 1.97 |
| 38                                     | D38      | D39 | D38  | 77     | 1722                            | 0.172             | 0.000    | 0.172    | 0.64              | 72.81                | OK                 | 234.200 | 234.2                 | 0.15                | 232.95         | 232.79       | 1.40 | 1.45 |
| 39                                     | D39      | D41 | D39  | 58     | 1713                            | 0.171             | 2.297    | 2.468    | 0.64              | 72.81                | OK                 | 234.200 | 234.160               | 0.16                | 232.23         | 232.12       | 1.87 | 2.08 |
| 40                                     | D40      | D41 | D40  | 238    | 19989                           | 1.274             | 0.000    | 1.270    | 0.64              | 72.81                | OK                 | 234.200 | 234.160               | 0.47                | 232.89         | 232.33       | 1.40 | 2.02 |
| 41                                     | D41      | D42 | D41  | 52     | 1624                            | 0.162             | 3.738    | 3.891    | 0.64              | 72.81                | OK                 | 234.183 | 234.074               | 0.11                | 232.13         | 232.02       | 2.06 | 2.08 |
| 42                                     | D42      | D44 | D42  | 44     | 1668                            | 0.166             | 20.790   | 20.790   | 0.64              | 463.34               | OK                 | 234.074 | 234.070               | 0.03                | 231.83         | 231.81       | 2.34 | 2.25 |
| 43                                     | D43      | D44 | D43  | 80     | 2140                            | 0.214             | 0.000    | 0.214    | 0.64              | 72.81                | OK                 | 234.151 | 234.050               | 0.14                | 232.70         | 232.54       | 1.40 | 1.48 |
| 44                                     | D44      | D46 | D44  | 88     | 2661                            | 0.266             | 24.200   | 24.668   | 0.64              | 483.34               | OK                 | 234.050 | 233.964               | 0.09                | 231.81         | 231.77       | 2.22 | 2.18 |
| 45                                     | D45      | D46 | D45  | 102    | 9994                            | 0.999             | 0.000    | 0.999    | 0.64              | 72.81                | OK                 | 234.157 | 233.964               | 0.18                | 232.70         | 232.57       | 1.40 | 1.68 |
| 46                                     | D46      | D47 | D46  | 114    | 25703                           | 2.575             | 25.667   | 28.242   | 0.64              | 545.77               | OK                 | 233.964 | 233.823               | 0.04                | 231.87         | 231.82       | 2.28 | 2.21 |
| 47                                     | D47      | D48 | D47  | 47     | 0                               | 0.000             | 28.242   | 28.242   | 0.64              | 545.77               | OK                 | 233.823 | 233.652               | 0.02                | 231.62         | 231.58       | 2.21 | 2.23 |

| BL NO                     | LINE NO. | FROM     | TO  | LENGTH<br>MTR | RFP AREA<br>TO BE<br>SHOWN IN | AREA IN HOISTERS |        | DISCHARGE IN<br>COMBIC<br>RHR<br>WEIGHT (kg/s) | DISCHARGE IN<br>COMBIC<br>RHR<br>WEIGHT (kg/s) | IN-LPS<br>MM | 1 IN | VELOCITY<br>M/SEC | DISCHARGE/CAP<br>CAPACITY | GROUND<br>LEVEL AT<br>START | MTR     | GROUND<br>LEVEL AT<br>END | MTR  | FALL   | HOIST<br>LEVEL AT<br>START | MTR  | HOIST<br>LEVEL AT<br>END | DEPTH AT<br>SEAM | MTR  | DEPTH AT<br>END | MTR  |       |
|---------------------------|----------|----------|-----|---------------|-------------------------------|------------------|--------|--|--|--------------|------|-------------------|---------------------------|-----------------------------|---------|---------------------------|------|--------|----------------------------|------|--------------------------|------------------|------|-----------------|------|-------|
|                           |          |          |     |               |                               | SELF             | BRANCH |  |  |              |      |                   |                           |                             |         |                           |      |        |                            |      |                          |                  |      |                 |      | TOTAL |
| HELP RIGHT SIDE OF WALL-2 |          |          |     |               |                               |                  |        |  |  |              |      |                   |                           |                             |         |                           |      |        |                            |      |                          |                  |      |                 |      |       |
| 1                         | D61      | D62      | 47  | 3.81          | 0.00                          | 0.00             | 0.00   | 21.51  | 5.84   | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.510 | 234.419                   | 0.08 | 233.11 | 233.11                     | 0.00 | 233.00                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 2                         | D62      | D64      | 240 | 8794          | 0.678                         | 1.215            | 1.893  | 75.81  | 21.59  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.619 | 234.222                   | 0.48 | 233.02 | 233.02                     | 0.00 | 232.56                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 3                         | D63      | D64      | 17  | 731           | 0.023                         | 0.000            | 0.023  | 4.07   | 1.27   | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.222 | 234.222                   | 0.00 | 232.82 | 232.82                     | 0.00 | 232.70                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 4                         | D64      | D69      | 207 | 3712          | 1.286                         | 1.695            | 2.981  | 101.68   | 28.80  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.222 | 234.032                   | 0.19 | 233.54 | 233.54                     | 0.00 | 232.12                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 5                         | D65      | D67      | 653 | 6148          | 0.815                         | 0.000            | 0.815  | 30.43  | 10.87  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.507 | 234.307                   | 0.20 | 233.13 | 233.13                     | 0.00 | 232.82                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 6                         | D66      | D67      | 37  | 3223          | 0.323                         | 0.000            | 0.323  | 20.78  | 6.17   | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.408 | 234.267                   | 0.14 | 233.01 | 233.01                     | 0.00 | 232.84                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 7                         | D67      | D69      | 15  | 0             | 0.000                         | 0.047            | 0.047  | 55.21  | 16.40  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.367 | 234.341                   | 0.03 | 232.82 | 232.82                     | 0.00 | 232.79                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 8                         | D68      | D68      | 143 | 3981          | 0.807                         | 0.000            | 0.807  | 56.04  | 16.57  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.483 | 234.341                   | 0.14 | 232.82 | 232.82                     | 0.00 | 232.81                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 9                         | D69      | D68      | 87  | 4457          | 0.668                         | 1.844            | 2.512  | 94.31  | 26.70  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.341 | 234.260                   | 0.08 | 232.79 | 232.79                     | 0.00 | 232.61                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 10                        | D69      | D68      | 146 | 4684          | 0.805                         | 0.000            | 0.805  | 63.48  | 18.86  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.433 | 234.260                   | 0.17 | 232.60 | 232.60                     | 0.00 | 232.11                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 11                        | D61      | D63      | 55  | 2005          | 0.200                         | 3.145            | 3.345  | 205.07   | 58.07  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.262 | 234.228                   | 0.03 | 232.61 | 232.61                     | 0.00 | 232.56                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 12                        | D62      | D63      | 120 | 1788          | 0.700                         | 0.000            | 0.700  | 48.72  | 13.93  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.364 | 234.228                   | 0.14 | 232.46 | 232.46                     | 0.00 | 232.26                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 13                        | D63      | D68      | 78  | 4201          | 0.428                         | 4.125            | 4.553  | 284.61   | 79.68  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.228 | 234.144                   | 0.08 | 232.46 | 232.46                     | 0.00 | 232.26                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 14                        | D64      | D68      | 66  | 0             | 0.000                         | 0.000            | 0.000  | 0.00   | 0.00   | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.324 | 234.419                   | 0.09 | 232.81 | 232.81                     | 0.00 | 232.82                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 15                        | D65      | D68      | 66  | 6758          | 0.678                         | 0.000            | 0.678  | 42.23  | 11.73  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.510 | 234.419                   | 0.09 | 233.11 | 233.11                     | 0.00 | 232.82                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 16                        | D66      | D67      | 184 | 8407          | 0.843                         | 0.879            | 1.722  | 76.17  | 21.16  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.419 | 234.222                   | 0.19 | 232.82 | 232.82                     | 0.00 | 232.45                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 17                        | D67      | D68      | 74  | 0             | 0.000                         | 1.219            | 1.219  | 78.17  | 21.16  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.144 | 234.144                   | 0.00 | 232.45 | 232.45                     | 0.00 | 232.30                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 18                        | D68      | D67      | 127 | 4264          | 0.823                         | 0.772            | 1.595  | 413.34   | 114.64   | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.144 | 234.300                   | 0.16 | 232.30 | 232.30                     | 0.00 | 232.06                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 19                        | D69      | D67      | 55  | 3775          | 0.377                         | 0.257            | 0.634  | 533.10   | 148.06   | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.502 | 233.818                   | 0.68 | 232.06 | 232.06                     | 0.00 | 231.99                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 20                        | D70      | D71      | 99  | 1840          | 1.843                         | 0.000            | 1.843  | 117.47   | 32.69  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.068 | 233.918                   | 0.15 | 232.07 | 232.07                     | 0.00 | 231.84                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 21                        | D71      | D73      | 77  | 0             | 0.000                         | 15.412           | 15.412 | 491.77   | 150.77   | 700          | 1650 | 0.84              | 72.81                     | OK                          | 233.918 | 233.868                   | 0.05 | 231.89 | 231.89                     | 0.00 | 231.82                   | 2.02             | 2.02 | 2.02            | 2.02 |       |
| 22                        | D72      | D73      | 617 | 14818         | 1.488                         | 0.000            | 1.488  | 86.24  | 27.37  | 400          | 600  | 0.84              | 72.81                     | OK                          | 233.868 | 233.868                   | 0.00 | 231.43 | 231.43                     | 0.00 | 231.11                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 23                        | D73      | D75      | 54  | 0             | 0.000                         | 12.080           | 12.080 | 793.01   | 208.34   | 700          | 1650 | 0.84              | 72.81                     | OK                          | 233.868 | 233.768                   | 0.09 | 231.82 | 231.82                     | 0.00 | 231.77                   | 2.02             | 2.02 | 2.02            | 2.02 |       |
| 24                        | D74      | D75      | 100 | 1160          | 1.159                         | 0.000            | 1.159  | 74.66  | 20.71  | 400          | 600  | 0.84              | 72.81                     | OK                          | 233.868 | 233.768                   | 0.10 | 231.43 | 231.43                     | 0.00 | 231.18                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 25                        | D75      | D77      | 106 | 4067          | 0.406                         | 13.183           | 13.589 | 640.06   | 206.10   | 400          | 600  | 0.84              | 72.81                     | OK                          | 233.768 | 233.683                   | 0.08 | 231.87 | 231.87                     | 0.00 | 231.58                   | 2.12             | 2.12 | 2.12            | 2.12 |       |
| 26                        | D76      | D77      | 250 | 4619          | 0.462                         | 0.000            | 0.462  | 35.12  | 9.98   | 400          | 600  | 0.84              | 72.81                     | OK                          | 233.868 | 233.683                   | 0.18 | 231.43 | 231.43                     | 0.00 | 231.64                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 27                        | D77      | Outlet-2 | 0   | 8271          | 0.827                         | 14.804           | 15.631 | 926.51   | 257.36   | 800          | 1250 | 0.84              | 72.81                     | OK                          | 233.683 | 233.683                   | 0.00 | 231.35 | 231.35                     | 0.00 | 231.36                   | 2.10             | 2.10 | 2.10            | 2.10 |       |
| HELP RIGHT SIDE OF WALL-3 |          |          |     |               |                               |                  |        |  |  |              |      |                   |                           |                             |         |                           |      |        |                            |      |                          |                  |      |                 |      |       |
| 1                         | D68      | D69      | 146 | 33434         | 2.343                         | 0.000            | 2.343  | 116.48   | 40.68  | 400          | 600  | 0.84              | 72.81                     | OK                          | 234.124 | 233.896                   | 0.23 | 232.72 | 232.72                     | 0.00 | 232.43                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 2                         | D69      | D68      | 87  | 8708          | 0.878                         | 1.343            | 2.222  | 251.36   | 55.34  | 400          | 600  | 0.84              | 72.81                     | OK                          | 233.896 | 233.896                   | 0.00 | 232.43 | 232.43                     | 0.00 | 232.26                   | 1.40             | 1.40 | 1.40            | 1.40 |       |
| 3                         | D69      | Outlet-3 | 0   | 0             | 0.000                         | 4.622            | 4.622  | 201.36   | 55.94  | 400          | 600  | 0.84              | 72.81                     | OK                          | 233.896 | 233.896                   | 0.00 | 232.26 | 232.26                     | 0.00 | 232.24                   | 1.54             | 1.54 | 1.54            | 1.54 |       |





| BL NO               | LINE NO. | FACED | ED   | LENGTH | SELF AREA TO BE SHANNED IN | AREA IN HECTARES |        | DISCHARGE IN COMBIC M3/S | VELOCITY IN M/S | VELOCITY IN M/S | DISCHARGE CAPACITY IN LPS | CHECK | GROUND LEVEL AT START | GROUND LEVEL AT END | FALL | MAGNET LEVEL AT START | MAGNET LEVEL AT END | DEPTH AT START | DEPTH AT END |
|---------------------|----------|-------|------|--------|----------------------------|------------------|--------|--------------------------|-----------------|-----------------|---------------------------|-------|-----------------------|---------------------|------|-----------------------|---------------------|----------------|--------------|
|                     |          |       |      |        |                            | SELF             | BRANCH |                          |                 |                 |                           |       |                       |                     |      |                       |                     |                |              |
| LEFT SIDE OUTFALL-2 |          |       |      |        |                            |                  |        |                          |                 |                 |                           |       |                       |                     |      |                       |                     |                |              |
| 1                   | D65      | D67   | 22   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.633               | 234.633             | 0.00 | 233.24                | 233.24              | 1.40           | 1.40         |
| 2                   | D66      | D67   | 0.03 | 1.164  | 1.164                      | 72.73            | 20.20  | 800                      | 0.84            | 0.84            | 72.61                     | OK    | 234.738               | 234.638             | 0.10 | 233.54                | 233.54              | 1.40           | 1.40         |
| 3                   | D67      | D68   | 102  | 0.00   | 1.164                      | 72.73            | 20.20  | 400                      | 0.84            | 0.84            | 72.61                     | OK    | 234.638               | 234.638             | 0.00 | 232.57                | 232.57              | 1.07           | 1.18         |
| 4                   | D68      | D69   | 164  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.738               | 234.638             | 0.10 | 233.54                | 233.54              | 1.40           | 1.40         |
| 5                   | D69      | D70   | 168  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.638               | 234.638             | 0.00 | 232.78                | 232.78              | 1.18           | 1.18         |
| 6                   | D70      | D71   | 262  | 2.143  | 2.143                      | 133.96           | 37.21  | 800                      | 0.64            | 0.64            | 72.61                     | OK    | 234.712               | 234.534             | 0.18 | 233.31                | 233.31              | 1.40           | 1.73         |
| 7                   | D71      | D72   | 75   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 133.96                    | OK    | 234.334               | 234.284             | 0.05 | 233.29                | 233.29              | 2.05           | 2.08         |
| 8                   | D72      | D73   | 347  | 1.802  | 1.802                      | 125.14           | 35.37  | 400                      | 0.64            | 0.64            | 72.61                     | OK    | 234.612               | 234.564             | 0.05 | 233.52                | 233.52              | 1.40           | 1.74         |
| 9                   | D73      | D74   | 113  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.284               | 234.184             | 0.10 | 232.90                | 232.90              | 2.00           | 2.20         |
| 10                  | D74      | D75   | 154  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.284               | 234.184             | 0.10 | 232.90                | 232.90              | 1.40           | 1.60         |
| 11                  | D75      | D76   | 73   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.184               | 234.084             | 0.10 | 231.90                | 231.90              | 2.20           | 2.14         |
| 12                  | D76      | D77   | 154  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.134               | 234.034             | 0.10 | 230.78                | 230.78              | 1.40           | 1.60         |
| 13                  | D77      | D78   | 15   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 234.002               | 233.902             | 0.10 | 231.75                | 231.75              | 2.24           | 2.25         |
| 14                  | D78      | D79   | 153  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.134               | 234.034             | 0.10 | 230.73                | 230.73              | 1.40           | 1.57         |
| 15                  | D79      | D80   | 81   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 234.002               | 233.902             | 0.10 | 231.75                | 231.75              | 2.25           | 2.26         |
| 16                  | D80      | D81   | 154  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.002               | 233.902             | 0.10 | 231.75                | 231.75              | 1.40           | 1.63         |
| 17                  | D81      | D82   | 72   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 233.952               | 233.852             | 0.10 | 231.97                | 231.97              | 2.38           | 2.39         |
| 18                  | D82      | D83   | 241  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.264               | 234.164             | 0.10 | 232.85                | 232.85              | 1.40           | 1.59         |
| 19                  | D83      | D84   | 90   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 233.952               | 233.852             | 0.10 | 232.57                | 232.57              | 1.40           | 1.63         |
| 20                  | D84      | D85   | 15   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 233.892               | 233.792             | 0.10 | 231.40                | 231.40              | 2.49           | 2.50         |
| 21                  | D85      | D86   | 300  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.412               | 234.312             | 0.10 | 233.21                | 233.21              | 1.40           | 1.60         |
| 22                  | D86      | D87   | 72   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 234.362               | 234.262             | 0.10 | 232.76                | 232.76              | 1.40           | 1.54         |
| 23                  | D87      | D88   | 173  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.312               | 234.212             | 0.10 | 232.52                | 232.52              | 1.76           | 1.64         |
| 24                  | D88      | D89   | 163  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 113.30                    | OK    | 234.312               | 234.212             | 0.10 | 232.52                | 232.52              | 1.76           | 1.64         |
| 25                  | D89      | D90   | 258  | 1.193  | 1.193                      | 349.99           | 98.04  | 800                      | 0.64            | 0.64            | 72.61                     | OK    | 234.123               | 234.023             | 0.10 | 232.38                | 232.38              | 1.84           | 1.96         |
| 26                  | D90      | D91   | 41   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 264.40                    | OK    | 233.882               | 233.782             | 0.10 | 231.28                | 231.28              | 2.60           | 2.63         |
| 27                  | D91      | D92   | 170  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.123               | 234.023             | 0.10 | 232.42                | 232.42              | 1.40           | 1.49         |
| 28                  | D92      | D93   | 109  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 453.34                    | OK    | 233.762               | 233.662             | 0.10 | 231.14                | 231.14              | 2.60           | 2.62         |
| 29                  | D93      | D94   | 53   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 233.662               | 233.562             | 0.10 | 232.30                | 232.30              | 1.40           | 1.51         |
| 30                  | D94      | D95   | 124  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 453.34                    | OK    | 233.662               | 233.562             | 0.10 | 231.07                | 231.07              | 2.62           | 2.56         |
| 31                  | D95      | D96   | 26   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 483.34                    | OK    | 233.562               | 233.462             | 0.10 | 231.00                | 231.00              | 2.06           | 2.08         |
| LEFT SIDE OUTFALL-3 |          |       |      |        |                            |                  |        |                          |                 |                 |                           |       |                       |                     |      |                       |                     |                |              |
| 1                   | D51      | D52   | 405  | 2.748  | 2.748                      | 171.74           | 47.71  | 800                      | 0.64            | 0.64            | 72.61                     | OK    | 234.378               | 234.278             | 0.10 | 232.96                | 232.96              | 1.40           | 1.78         |
| 2                   | D52      | D53   | 65   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.378               | 234.278             | 0.10 | 232.96                | 232.96              | 1.40           | 1.48         |
| 3                   | D53      | D54   | 15   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.378               | 234.278             | 0.10 | 232.96                | 232.96              | 1.78           | 1.78         |
| 4                   | D54      | D55   | 487  | 2.473  | 2.473                      | 154.47           | 42.91  | 400                      | 0.64            | 0.64            | 72.61                     | OK    | 234.378               | 234.278             | 0.10 | 232.96                | 232.96              | 1.40           | 1.78         |
| 5                   | D55      | D56   | 65   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 234.378               | 234.278             | 0.10 | 232.96                | 232.96              | 1.40           | 1.44         |
| 6                   | D56      | D57   | 66   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 161.50                    | OK    | 233.907               | 233.807             | 0.10 | 231.94                | 231.94              | 1.99           | 2.00         |
| 7                   | D57      | D58   | 290  | 1.800  | 1.800                      | 117.48           | 32.63  | 400                      | 0.64            | 0.64            | 72.61                     | OK    | 234.052               | 233.952             | 0.10 | 232.89                | 232.89              | 1.40           | 1.71         |
| 8                   | D58      | D59   | 190  | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 233.942               | 233.842             | 0.10 | 231.73                | 231.73              | 2.10           | 2.10         |
| 9                   | D59      | D60   | 72   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 233.842               | 233.742             | 0.10 | 232.44                | 232.44              | 1.40           | 1.47         |
| 10                  | D60      | D61   | 15   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 233.742               | 233.642             | 0.10 | 232.29                | 232.29              | 1.40           | 1.61         |
| 11                  | D61      | D62   | 72   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 233.642               | 233.542             | 0.10 | 232.44                | 232.44              | 1.40           | 1.48         |
| 12                  | D62      | D63   | 85   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 72.61                     | OK    | 233.542               | 233.442             | 0.10 | 232.27                | 232.27              | 1.57           | 1.57         |
| 13                  | D63      | D64   | 60   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 233.442               | 233.342             | 0.10 | 231.95                | 231.95              | 2.18           | 2.18         |
| 14                  | D64      | D65   | 10   | 0.00   | 0.00                       | 0.00             | 0.00   | 0.00                     | 0.00            | 0.00            | 232.83                    | OK    | 233.342               | 233.242             | 0.10 | 231.48                | 231.48              | 2.17           | 2.17         |

## SUB WORK No. 4

## ROAD WORK

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY MIS UTRINA INFRA PROJECTS PRIVATE LIMITED.

| Width in meter    | length in meter | Metalled Portion | Area in Sqm.    |
|-------------------|-----------------|------------------|-----------------|
| 12                | 9658 9911       | 5.5              | 63076 54510     |
| 18                | 404             | 7.5 10.0         | 9999 4040       |
| 24                | 4947 2538       | 15 (2.2)         | 29206 35532     |
| Total             | 12001           |                  | 85340 94082     |
| Add 5% for curves |                 |                  | 4266.6 4704     |
| Total Area        |                 |                  | 89676 98786 Sqm |

say 98800 sqm

| S No.   | Description  | Amount                     |
|---|--|----------------------------|
| 1   | Provision for leveling & earth filling as per site condition<br>Approx 208.4728 Acre @ Rs. 1,75,000 per acre   | Rs. 3,64,82,731.25         |
| 2a  | Providing and laying Granular Sub Base (GSB) (150 mm thick for for 12 mtr and 200 mm thick for 18 & 24 mtr Road)<br>200 mm GSB<br>250 mm stone aggregate |                            |
| 2b  | Providing and laying Wet Mix Macadam (WMM) (200mm thick for for 12 mtr and 225 mm thick for 18 & 24 mtr Road)<br>50 mm thick DGM                         |                            |
| 2c  | Providing and laying 60-mm-thick interlocking tiles.<br>30 mm BC   | 1482.41 L                  |
|   | 98800 89676 Sqm @ Rs. 1,500 per sqm  | Rs. 13,43,63,250.00        |
| 3   | Provision for guide map and other unforeseen item L.S  | Rs. 5,00,000.00            |
| 4   | Provision for plot indicators L.S  | Rs. 0,00,000.00            |
| 5   | Provision for demarcating burgies L.S  | Rs. 4,00,000.00            |
| 6   | Provision for traffic arrangement L.S<br>Kerbs & channel on both side of road with a 2   | Rs. 8,50,000.00            |
| 7   | Provision for making approach to each plot. Per specification<br>32325 Sqm @ 600/m   | 193.95 L                   |
|   | Approx 208.4728 Acre @ Rs. 10,000 per acre   | Rs. 20,84,727.50           |
| 8   | Provision for carriage of material & unforeseen items L.S  | Rs. 0,00,000.00            |
| <b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b> |  | <b>Rs. 17,59,80,798.75</b> |

g) Provision for Corridor of Pavement in Comm.

Area i.e. 50% of the area =  $3.995 \times 647 = 8083.88$

8083.88  
Sqmt  
OR 8100 Sqm @ 1500/Sqm

121.30 L  
2269.78 L



RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022)  
OVER AN AREA MEASURING 251.90625 ACRES (MIGRATED  
FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8  
ACRES) AT SECTOR 36,37,38,39 PANIPAT BEING DEVELOPED BY  
M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| Sl. No. | Node |                    |              |             |
|---------|------|--------------------|--------------|-------------|
|         |      | 12 Mtr. Wide       | 18 Mtr. Wide | 24Mtr. Wide |
| 1       | R1   | 58                 | ....         | ....        |
| 2       | R2   | 203 199            | ....         | ....        |
| 3       | R3   | <del>244</del> 239 | ....         | ....        |
| 4       | R4   | 155                | ....         | ....        |
| 5       | R5   | 155                | ....         | ....        |
| 6       | R6   | 155                | ....         | ....        |
| 7       | R7   | 155                | ....         | ....        |
| 8       | R8   | 180                | ....         | ....        |
| 9       | R9   | ....               | ....         | 584         |
| 10      | R10  | 253                | ....         | ....        |
| 11      | R11  | 253                | ....         | ....        |
| 12      | R12  | 178                | ....         | ....        |
| 13      | R13  | 178                | ....         | ....        |
| 14      | R14  | 202                | ....         | ....        |
| 15      | R15  | 181                | ....         | ....        |
| 16      | R16  | 150                | ....         | ....        |
| 17      | R17  | 150                | ....         | ....        |
| 18      | R18  | 118                | ....         | ....        |
| 19      | R19  | 411                | ....         | ....        |
| 20      | R20  | 423                | ....         | ....        |
| 21      | R21  | 53                 | ....         | ....        |
| 22      | R22  | 68                 | ....         | ....        |
| 23      | R23  | 94                 | ....         | ....        |
| 24      | R24  | 83                 | ....         | ....        |
| 25      | R25  | 117                | ....         | ....        |
| 26      | R26  | 160                | ....         | ....        |
| 27      | R27  | 94                 | ....         | ....        |
| 28      | R28  | ....               | ....         | 205         |
| 29      | R29  | ....               | ....         | 456         |
| 30      | R30  | ....               | ....         | 206         |
| 31      | R31  | 165                | ....         | ....        |
| 32      | R32  | 114                | ....         | ....        |
| 33      | R33  | 114                | ....         | ....        |
| 34      | R34  | 114                | ....         | ....        |
| 35      | R35  | 114                | ....         | ....        |
| 36      | R36  | 114                | ....         | ....        |
| 37      | R37  | 329                | ....         | ....        |
| 38      | R38  | 192                | ....         | ....        |
| 39      | R39  | 192                | ....         | ....        |
| 40      | R40  | 192                | ....         | ....        |
| 41      | R41  | 192                | ....         | ....        |
| 42      | R42  | 192                | ....         | ....        |
| 43      | R43  | 298                | ....         | ....        |



|    |       |         |      |      |
|----|-------|---------|------|------|
| 44 | R44   | 61      | .... | .... |
| 45 | R45   | 61      | .... | .... |
| 46 | R46   | 61      | .... | .... |
| 47 | R47   | 242     | .... | .... |
| 48 | R48   | 255 161 | .... | .... |
| 49 | R49   | 155     | .... | .... |
| 50 | R50   | 132     | .... | .... |
| 51 | R51   | 132     | .... | .... |
| 52 | R52   | 60      | .... | .... |
| 53 | R53   | 181     | .... | .... |
| 54 | R54   | 238     | .... | .... |
| 55 | R55   | 232 228 | .... | .... |
| 56 | R56   | 67      | .... | .... |
| 57 | R57   | 76      | .... | .... |
| 58 | R58   | 76      | .... | .... |
| 59 | R59   | 58      | .... | .... |
| 60 | R60   | 151     | .... | .... |
| 61 | R61   | 105     | .... | .... |
| 62 | R62   | 28      | .... | .... |
| 63 | R63   | 155     | .... | .... |
| 64 | R64   | 109     | .... | .... |
| 65 | R65   | 261     | .... | .... |
| 66 | R66   | 169     | .... | .... |
| 67 | R67   | 180     | .... | .... |
| 68 | R68   | ....    | 404  | .... |
| 69 | R69   | ....    | .... | 234  |
| 70 | R70   | ....    | .... | 277  |
| 71 | R71   | ....    | .... | 589  |
|    | Total | 9650    | 404  | 1947 |

9911

2538 ml



Length for kerb &amp; channel

$$2(9911 + 404) + 4(2538) = 30782 \text{ mh}$$

Add 5% for curves

$$1539 \text{ mh}$$

$$\underline{32321 \text{ mh}}$$

$$\text{say} = 32325 \text{ RmL}$$

SUB WORK No. 5

Street Lighting

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No. | Description   | Amount                    |
|-------|---|---------------------------|
| 1     | Providing street lightning on roads as per standard specifications of HVPN. |                           |
|       | Approx 208.47 Acre @ Rs. 2,50,000 per acre                                  | Rs. 5,21,18,187.50        |
|       | <b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>                               | <b>Rs. 5,21,18,187.50</b> |

say 5 521.18 lacs



## SUB WORK No. 6

## Plantation &amp; Road side Trees/Horticulture

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39  
PANIPAT BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No. | Description  | Amount                  |
|-------|--|-------------------------|
| 1     | <b>Development of Green areas</b>  |                         |
| a     | Trenching the ordinary soil up to dept of 60 cm including removal and stacking of serviceable material and disposing of by spreading and leveling within a lead to 50m and making up the trenches area of proper leads by filling with earth mixed with manure before and after flooding trench with water including cost of imported earth and manure |                         |
| b     | Rough dressing of park area  |                         |
|       | Grassing with "Doob Grass" including watering and maintenance of lawns for 30 days till the grass a thick lawn, free weeds and fit for moving in rows 7.5m apart in either direction including provision for hedges and barbed wire fencing around park.   |                         |
|       | Approx. 10.33000 Acres @ Rs. 1,50,000 per Acres  | Rs. 15,49,500.00        |
| 2     | <b>Planting Tree</b>   |                         |
| a     | Provision of trees, along 9.0 M wide(One Side) and both side on the 12mtr. & 24 mtr. Road at 12 Mtr intervals.   |                         |
|       | $((2660+404+1947/12)*2) = 214275$ @ Rs. 2310   | Rs. 49,67,175           |
|       | $9911+406+2512 = 12829$ @ Rs. 512150   | Rs. 6,62,000            |
|       | <b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>  | <b>Rs. 51,49,500.00</b> |

Rs 65.17 lacs



SUB WORK No. 7

MTC Charge and Resurfacing of Road

RESIDENTIAL INTEGRATED TOWNSHIP (UNDER NILP-2022) OVER AN AREA MEASURING 251.90625 ACRES  
(MIGRATED FROM LICENCE NO.06 OF 2010 DATED 14.10.2010 OF 314.8 ACRES) AT SECTOR 36,37,38,39 PANIPAT  
BEING DEVELOPED BY M/S UTRINA INFRA PROJECTS PRIVATE LIMITED.

| S No. | Description   | Amount                                      |
|-------|---|---|
| 1     | Provision for maintenance charge for Water supply, sewerage, storm water, Drainage, roads, street light, Hort. Etc. Complete including operation & Establishment charges as per HUDA Norms after completion. <del>300,000</del> | 166778200                                   |
|       | Area 208.47275 Acre @ Rs. <del>7,50,000</del> per acre  | Rs. <del>15,60,54,362.50</del> 166778200    |
| 2     | Provision for resurfacing of roads after First five year of maintenance.  | 652.08146                                   |
|       | Total Road area <del>98800</del> 89576 Sqmt @ Rs. <del>600-660</del> per Sqmt   | Rs. <del>6,37,45,300.00</del>               |
| 3     | Provision for resurfacing of roads after 10 Years of MTC.   | 815.1045                                    |
|       | Total Road area <del>98800</del> 89576 Sqmt @ Rs. 825 per Sqmt  | Rs. 7,38,09,787.50                          |
|       | <b>TOTAL CO to FINAL ABSTRACT OF QUANTITY</b>   | Rs. <del>28,39,89,850.00</del> 294423287.50 |

Rs. 3134,96 lacs



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

Licence No. 257 of 2023

This Licence has been granted under the Haryana Development and Regulation of Urban Areas Act 1975 & the Rules 1976 made thereunder to Ambli Estates Pvt. Ltd., Ultima Infra Projects Pvt. Ltd., Grand Valley Realtors Pvt. Ltd., Four Square Promoters Pvt. Ltd., Lagoon Club Pvt. Ltd., Lagoon Realtors Pvt. Ltd., Little Valley Promoters Pvt. Ltd., Star Valley Realtors Pvt. Ltd. In collaboration with Ultima Infra Projects Pvt. Ltd., Regd. Office 6<sup>th</sup> Floor, MSM Lee Point, North Block, Sector-65, Gurugram-122101 for setting up of Residential Plotted Colony under NHP Policy over an area measuring 351.90 acres (after migration from licence no. 6 of 2010 granted for setting up of RPL Colony) in the revenue estate of village Kabli and Taraf Insar, Sector-36 & 38, Distt. Panipat.

1. The particulars of the land, wherein the proposed Residential Plotted Colony under NHP - 2022 is to be set up, are given in the Schedule annexed hereto and duly signed by the Director, Town & Country Planning, Haryana.
2. The Licence is granted subject to the following conditions:
  - (i) That you will pay the State Infrastructure Development charges amounting to Rs. 1,78,23,807/- @ Rs. 375/- per sq m for the plotted area and Rs.750/- for the commercial component in two equal installments. First installment will be due within 60 days of grant of licence and second installment within 6 months of grant of licence failing which 18% per annum interest will be liable for the delayed period.
  - (ii) That the Residential Plotted Colony under NHP - 2022 will be carried out in confirmation to the approved layout/building plan and development scheme. All works will be executed in accordance to the designs and specifications mentioned in the approved plans.
  - (iii) That the conditions of the agreements already executed are duly fulfilled and the provisions of Haryana Development and Regulation of Urban Areas Act, 1975 and the Rules 1976 made thereunder are duly complied with.
  - (iv) That area coming under the sector roads and restricted belt / green belt, if any, which forms part of licensed area and in lieu of which benefit to the extent permissible as per policy towards FAR is being granted, shall be transferred to the Government within a period of 30 days of approval of zoning plan.
  - (v) That you shall maintain and upkeep of all roads, open spaces, public parks and public health services for a period of five years from the date of issue of the completion certificate unless earlier relieved of this responsibility and thereupon to transfer all such roads, open spaces, public parks and public health services to the Govt. or the local authority, as the case may be, in accordance with the provisions of Section 30(a)(ii) of the Haryana Development and Regulation of Urban Areas Act, 1975.



- (vii) That you shall construct portion of service road, internal circulation roads, covering the part of site area at your own cost and shall transfer the land falling within alignment of same to the Government in accordance with Section 303 (a) (iii) of the Haryana Development and Regulation of Urban Areas Act, 1975 within a period of 30 days of approval of zoning plan.
- (viii) That you shall integrate the services<sup>\*\*\*\*</sup> Haryana Shahari Vikas Pradhikaran services as and when made available.
- (ix) That you have not submitted any other application for grant of license for development of the said land or part thereof for any purpose as per the provisions of the Haryana Development and Regulation of Urban Areas Act, 1975 or any application seeking permission for change of land use under the provision of the Punjab Scheduled Roads and Controlled Area Regulation or Unregulated Development Act, 1963.
- (x) That you have understood that the development/construction cost of 24 m/18 m wide major internal roads is not included in the IDC rates and they shall pay the proportionate cost for acquisition of land, if any, alongwith the construction cost in 24 m/18 m wide major internal roads as and when needed and demanded by the Department.
- (xi) That you shall obtain NCC/Clearance as per provisions of notification dated 11.09.2006 issued by Ministry of Environment & Forest, Govt. of India, in triplicate before execution of development works at site.
- (xii) That you shall make your own arrangements for water supply, sewerage, drainage etc. to the satisfaction of Director till these services are made available and the same is made functional from external infrastructure available. The Haryana Shahari Vikas Pradhikaran or any other executing agency.
- (xiii) That you shall obtain clearance from competent authority, if required under Punjab Land Preservation Act, 1960 and any other clearance required under any other law.
- (xiv) That you own water harvesting system shall be provided as per Central Ground Water Authority Norms/Haryana Govt. notification as per (ii) No.
- (xv) That the provision of solar water photovoltaic system shall be as per guidelines of Haryana Renewable Energy Development Agency and shall be made operational where applicable before applying for an Occupation Certificate.
- (xvi) That you shall use only LED fitting for internal lighting as well as area lighting.
- (xvii) That you shall convey the 'Ultimate Peak Load Requirement' of the project to the concerned power utility with a copy to the Director, within two months period from the date of grant of license to enable provision of site infrastructure and for Transformation/Stepping stations/Electric Sub Stations as per the norms prescribed by the power utility in the zoning plan of the project.
- (xviii) That you shall keep pace of development atleast in accordance with scheme agreement executed with the bureau of the plots as and when scheme is launched.
- (xix) That you shall arrange power connection from UHBVNI/DWBVNI for distribution of the colony and shall install the electricity distribution infrastructure as per the peak load requirement of the colony for which licensee shall get the electrical (distribution) service plan/estimates approved.

from the agency responsible for installation of external electric services i.e. UHBVNL/DHBVNL, and complete the same before obtaining completion certificate for the colony.

- xix) That you will pay the labour cess as per policy instructions issued by Haryana Government vide Memo No. Misc. 2057-5/25/2008/21CT dated 25.02.2010 and as amended from time to time.
- xx) That you shall submit compliance of Rule 24, 26, 27 & 28 of Rules 1976 & Section 5 of Haryana Development and Regulation of Urban Areas Act, 1973, and shall inform account number and full particulars of the scheduled bank wherein you have to deposit amount received from the plot holders for meeting the cost of Internal Development Works in the colony.
- xxi) That no further sale has taken place after submitting application for grant of license.
- xxii) That you shall not give any advertisement for sale of plots/commercial area before the approval of layout plan.
- xxiii) That you shall follow the provisions of the Real Estate (Regulations and Development) Act, 2016 and Rules framed thereunder shall be followed by the applicant in letter and spirit.
- xxiv) That no provision of the Haryana Ceiling on Land Holding, Act, 1972 has been violated due to purchase of applied land.
- xxv) That the owner/developer shall integrate the bank account in which 70 percent allottee receipts are credited as per Section 4(2)(1)(D) of the Real Estate Regulation and Development Act, 2016.
- xxvi) That you shall abide by the terms and conditions of policy dated 11.09.2022 as amended from time to time and other direction given by the Director from time to time to execute the project.
- xxvii) That you shall provide the details of calculation per Sqm/psr Sq. Ft. to the allottee while raising demand from the flat owner/plot owner/ commercial space owners, in case at the time of booking of the plot/flat/commercial space, the SIDC/EDC rates were not included and are to be charged separately as per rates fixed by the Government.
- xxviii) That you shall execute the development works as per Environmental Clearance and comply with the provisions of Environment Protection Act, 1986, Air (Prevention and Control of Pollution) Act, 1987 and Water (Prevention and Control of Pollution) Act, 1974. In case of any violation of the provisions of said statutes, you shall be liable for penal action by Haryana State Pollution Control Board or any other Authority Administering the said Acts.
- xxix) That you shall abide by all the provisions of Act no. 8 of 1973 and Rules framed thereunder as amended time to time.
- xxx) That you shall maintain the right of way along 132 KV III & 75/11 KV III line passing through the applied site.
- xxxi) That you shall not overreach the revenue rasta passing through the applied site and keep them open for the thoroughfare movement of the general public.
- xxxii) That licensed land forming the part of Sector, Road, Service roads, Greenbelt and 24/18 mtrs wide road as the case may be land pockets which are

unmarked for community sites shall be transferred within a period of 30 days in favour of Government from the date of approval of Zoning Plan, if applicable.

xxviii) That you shall complete the project within seven years (5+2 years) from date of grant of license as per clause 9.2 of the policy dated 11.05.2022.

3. That you shall submit the revenue record of khasra no. 186/2 min (08-131-01) after clearing the entry of muruse from khana kasht until then the area under said khasra is kept in vacant. No third party rights shall be created upon said khasra nos.

4. The licence is valid up to 28/11/2028

Dated: 29/11/2023.  
Place:

(Amr Khatri, IAS)  
Director  
Town & Country Planning  
Haryana, Chandigarh India

Order No. LC 3003-II (MK)-2023/ 40764 Dated: 30-11-2023

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

1. ✓ Ansh Estates Pvt. Ltd., Uttara Infra Projects Pvt. Ltd., Grand Valley Realtors Pvt. Ltd., Fote Square Promoters Pvt. Ltd., Lagoon Club Pvt. Ltd., Lagoon Realtors Pvt. Ltd., Little Valley Promoters Pvt. Ltd., Star Valley Realtors Pvt. Ltd. In collaboration with Uttara Infra Projects Pvt. Ltd., Regd. Office 6<sup>th</sup> Floor, ADM Tax Point, North Block, Sector-06, Gurugram-122101 alongwith a copy of agreement, LC-IV B, Bilateral agreement & layout plan.
2. Chairman, Pollution Control Board, Haryana, Sector-6, Panchkula.
3. Chief Administrator, HSVP, Panchkula.
4. Chief Administrator, Housing Board, Panchkula alongwith copy of agreement.
5. Managing Director, HVPN, Planning Directorate, Shakti Bhawan, Sector-6, Panchkula.
6. Joint Director, Environment Haryana - Cum-Secretary, SEAC, Paryavaran Bhawan, Sector-2, Panchkula.
7. Adstt. Director Urban Estates, Haryana, Panchkula.
8. Administrator, HSVP, Rohtak.
9. Chief Engineer, HSVP, Panchkula.
10. Superintending Engineer, HSVP, Rohtak along with a copy of agreement.
11. Land Acquisition Officer, Rohtak.
12. Senior Town Planner, Rohtak alongwith layout plan.
13. District Town Planner, Panipat along with a copy of agreement and layout plan and with a request to give report in respect of requirement of community sites as per policy dated 25.08.2022.
14. Chief Accounts Officer O/o DGICP, Haryana, Chandigarh along with a copy of agreement.
15. Nodal Officer (Website) to update the status on the website.

( JAIKED )  
District Town Planner (HC)  
For Director General, Town & Country Planning,  
Haryana Chandigarh

| 1. Green field colonizers Pvt. Ltd. |   |              |              |           |
|-------------------------------------|---|--------------|--------------|-----------|
| Village                             | Rect. No.                                   | Killa No.    | Area (K-M)   |           |
| Kabri                               | 56  | 18           | 6-12         |           |
|                                     |   | 23           | 5-19         |           |
|                                     |   | 15           | 8-0          |           |
|                                     |   | 17           | 8-0          |           |
|                                     |   | 24/1         | 5-17         |           |
|                                     | 90  | 16min        | 0-4          |           |
|                                     |   | 17min        | 7-6          |           |
|                                     |   | 24           | 3-17         |           |
|                                     |   | 25min        | 3-2          |           |
|                                     | 94  | 1min         | 0-8          |           |
|                                     | 95  | 5min         | 7-12         |           |
|                                     |   | <b>Total</b> | <b>56-17</b> |           |
|                                     | 2. Downtown Apartments Developers Pvt. Ltd. |              |              |           |
| Village                             | Rect. No.                                   | Killa No.    | Area(K-M)    |           |
| Kabri                               | 71  | 1/1          | 4-17         |           |
|                                     | 70  | 5            | 8-0          |           |
|                                     |   | 6            | 8-0          |           |
|                                     |   | 4            | 8-0          |           |
|                                     |   | 7            | 7-0          |           |
|                                     |   | 26           | 1-0          |           |
|                                     |   | 4            | 7-8          |           |
|                                     |   | 7            | 7-8          |           |
|                                     |   | 14           | 6-8          |           |
|                                     |   | 16           | 8-0          |           |
|                                     |   | 17           | 8-0          |           |
|                                     | 73  | 24           | 8-0          |           |
|                                     |   | 25           | 8-0          |           |
|                                     |   | 19/2         | 5-6          |           |
|                                     |   | 20/1         | 6-4          |           |
|                                     |   | 21           | 6-17         |           |
|                                     |   | 22           | 3-0          |           |
|                                     |   | 1            | 0-3          |           |
|                                     | 74  | 76           | 0-3          |           |
|                                     |   | 77           | 7-7          |           |
|                                     |   | 5            | 3-7          |           |
|                                     |   | 56           | 16           |           |
|                                     |   | 24/2         | 1-1          |           |
|                                     |   | 25           | 6-18         |           |
|                                     |   | <b>Total</b> | <b>138-4</b> |           |
|                                     | 3. Ultramagic Developers Pvt. Ltd.          |              |              |           |
|                                     | Village                                     | Rect. No.    | Killa No.    | Area(K-M) |
| Kabri                               | 79  | 1/1          | 5-3          |           |
|                                     | 56  | 3            | 2-1          |           |
|                                     |   | 4            | 6-5          |           |
|                                     |   | 5            | 8-0          |           |
|                                     |   | 6            | 7-11         |           |
|                                     |   | 7            | 7-11         |           |
|                                     |   | 8            | 5-6          |           |
|                                     |   | 13           | 6-10         |           |
|                                     |   | 14           | 8-0          |           |
|                                     |   | 70           | 21           | 8-0       |
|                                     |   |              | 22           | 8-0       |
|                                     | 27  |              | 1-5          |           |
|                                     | 80  |              | 4            |           |
|                                     |   | 5            | 7-11         |           |
|                                     |   | 6            | 8-0          |           |
|                                     |   | 3/2          | 6-12         |           |
|                                     |   | <b>Total</b> | <b>103-6</b> |           |

|         |                                  |              |               |           |              |              |
|---------|----------------------------------|--------------|---------------|-----------|--------------|--------------|
| 4.      | Prudence Buildtech Pvt. Ltd.     |              | Killa No.     | Area(K-M) |              |              |
|         | Village                          | Rect. No.    |               |           |              |              |
|         | Kabri                            | 71           |               |           | 9            | 8-0          |
|         |                                  |              |               |           | 14           | 8-0          |
|         |                                  |              |               |           | 15           | 7-12         |
|         |                                  |              |               |           | 2            | 7-11         |
|         |                                  |              |               |           | 3            | 7-11         |
|         |                                  |              |               |           | 4            | 7-11         |
|         |                                  |              |               |           | 5            | 7-4          |
|         |                                  |              |               |           | 6            | 7-12         |
|         |                                  |              |               |           | 7            | 8-0          |
|         |                                  |              |               |           | 8            | 8-0          |
|         |                                  |              |               |           | 12           | 8-0          |
|         |                                  |              |               |           | 13           | 8-0          |
|         |                                  | 80           |               |           | 15           | 8-0          |
|         |                                  |              |               |           | 1            | 7-4          |
|         |                                  |              |               |           | 2/1          | 3-8          |
|         |                                  |              |               |           | 9            | 8-0          |
|         |                                  |              |               |           | 10           | 7-12         |
|         |                                  |              |               |           | <b>Total</b> | <b>127-5</b> |
| 5.      | Four Square Promoters Pvt. Ltd.  |              | Killa No.     | Area(K-M) |              |              |
|         | Village                          | Rect. No.    |               |           |              |              |
|         | Kabri                            | 71           |               |           | 19           | 6-16         |
|         |                                  |              |               |           | 20/1/1       | 2-14         |
|         |                                  |              |               |           | 20/2/1       | 2-9          |
|         |                                  |              |               |           | 11/1         | 5-3          |
|         |                                  |              |               |           | 10/1         | 5-3          |
|         |                                  |              |               |           | 21/1         | 5-3          |
|         |                                  |              |               |           | 22           | 7-8          |
|         |                                  | 70           |               |           | 19           | 8-0          |
|         |                                  |              |               |           | 20           | 8-0          |
|         |                                  |              |               |           | 23           | 8-0          |
|         |                                  |              |               |           | 24           | 8-0          |
|         |                                  |              |               |           | 25           | 6-15         |
|         |                                  |              |               |           | 15           | 8-0          |
|         |                                  |              |               |           | 17           | 8-0          |
|         |                                  |              |               |           | 18/1         | 4-16         |
|         |                                  |              |               |           | 18/2         | 3-4          |
|         |                                  |              |               |           | 16/1         | 6-9          |
|         |                                  |              |               |           | 16/2         | 1-11         |
|         | 80                               | 7/2          | 1-4           |           |              |              |
|         |                                  | 8            | 8-0           |           |              |              |
|         |                                  | <b>Total</b> | <b>114-15</b> |           |              |              |
| 6.      | Grandvalley Developers Pvt. Ltd. |              | Killa No.     | Area(K-M) |              |              |
|         | Village                          | Rect. No.    |               |           |              |              |
|         | Kabri                            | 51           |               |           | 21           | 6-18         |
|         |                                  |              |               |           | 22           | 6-11         |
|         |                                  |              |               |           | 19/2         | 3-15         |
|         |                                  |              |               |           | 20/1         | 3-16         |
|         |                                  | 52           |               |           | 15           | 8-0          |
|         |                                  |              |               |           | 16           | 8-0          |
|         |                                  |              |               |           | 25           | 6-18         |
|         |                                  |              |               |           | <b>Total</b> | <b>43-18</b> |
| 7.      | Grandvalley Realtors Pvt. Ltd.   |              | Killa No.     | Area(K-M) |              |              |
| Village | Rect. No.                        | 20/3         | 0-9           |           |              |              |
| Kabri   | 92                               |              |               |           |              |              |

D.T.C.P (HR)  
Suman (Patel)

| 8. Lagoon Club Pvt. Ltd. |           |              |                |
|--------------------------|-----------|--------------|----------------|
| Village                  | Rect. No. | Killa No.    | Area(K-M)      |
| Kabri                    | 78        | 11           | 0-16           |
|                          | 79        | 8            | 8-0            |
|                          |           | 16min        | 6-11.5         |
|                          |           | 17min        | 3-9            |
|                          |           | 19           | 8-0            |
|                          |           | 22           | 8-0            |
|                          |           | 13           | 8-0            |
|                          |           | 14min        | 3-9            |
|                          |           | 15min        | 7-2            |
|                          |           | 18           | 8-0            |
|                          |           | 23           | 8-0            |
|                          |           | 24min        | 3-9            |
|                          |           | 2            | 7-8            |
|                          |           | 7/2min       | 2-0            |
|                          |           | 12/2         | 6-4            |
| 48                       |           | 21           | 4-9            |
|                          |           | 22           | 1-9            |
| 51                       |           | 1            | 8-0            |
|                          |           | 10           | 8-0            |
|                          |           | 19/1         | 4-6            |
|                          |           | 2/1          | 7-14           |
|                          |           | 20/2         | 4-4            |
|                          |           | 9            | 8-18           |
| 80                       |           | 2/2          | 4-3            |
|                          |           | 7/1          | 6-16           |
|                          |           | 3/1          | 0-19           |
|                          |           | 13           | 8-0            |
|                          |           | <b>Total</b> | <b>155-6.5</b> |

| 9. Detail of land forming part of parent License no.6 of 2010 but acquired by HSVP vide Award no. 1 of 2011 |           |              |             |
|---|-----------|--------------|-------------|
| Village   | Rect. No. | Killa No.    | Area(K-M)   |
| Kabri   | 51        | 11           | 6-4         |
|   |           | 12           | 8-8         |
|   |           | 28           | 1-0         |
|   |           | 29           | 0-16        |
|   |           | <b>Total</b> | <b>16-8</b> |

| 10. Lagoon Realtors Pvt. Ltd. |           |           |              |
|-------------------------------|-----------|-----------|--------------|
| Village                       | Rect. No. | Killa No. | Area(K-M)    |
| Kabri                         | 81        | 7         | 8-0          |
|                               |           | 8/1       | 5-10         |
|                               |           | 8/2       | 2-10         |
|                               |           | 9         | 4-16         |
|                               |           | 12        | 5-4          |
|                               |           | 13/1      | 1-2          |
|                               |           | 13/2      | 6-18         |
|                               |           | 6/1       | 4-16         |
|                               |           | 6/2/1     | 2-0          |
|                               |           | 6/2/2     | 1-4          |
|                               |           | 14        | 8-0          |
|                               |           | 15        | 8-0          |
|                               |           | 19        | 4-8          |
|                               |           | 18/1min   | 0-5          |
|                               |           | 18/2min   | 2-13         |
|                               |           | 22/2      | 2-4          |
|                               |           | 23min     | 5-4          |
|                               |           | 3min      | 7-6          |
|                               |           | 4min      | 0-1.5        |
|                               |           |           | <b>Total</b> |

D.T.C.P (HR)  
Saman/Retired

|     |  |                 |  |  |
|-----|--|-----------------|--|--|
| 11. | Littlevalley Promoters Pvt. Ltd.<br>Village<br>Kabri | Rect. No.<br>92 | Killa No.<br>2<br>3<br>8<br>9<br>12<br>Total   | Area(K-M)<br>8-0<br>8-4<br>1-11<br>7-14<br>4-4<br>29-13  |
| 12. | Moonvalley Realtors Pvt. Ltd.<br>Village<br>Kabri    | Rect. No.<br>73 | Killa No.<br>11<br>19<br>20<br>21<br>22<br>12<br>10/2<br>1<br>2<br>9<br>10<br>13<br>18<br>23<br>3<br>8<br>Total  | Area(K-M)<br>8-0<br>8-0<br>8-0<br>8-0<br>8-0<br>8-0<br>5-7<br>8-0<br>8-0<br>4-18<br>6-0<br>8-0<br>8-0<br>8-0<br>8-0<br>2-13<br>114-18  |
| 13. | Starvalley Realtors Pvt. Ltd.<br>Village<br>Kabri    | Rect. No.<br>90 | Killa No.<br>7min<br>8<br>13/2<br>14min<br>Total   | Area(K-M)<br>1-14.5<br>5-10<br>3-0<br>4-4.5<br>14-9  |
| 14. | Uttirna Infraprojects Pvt. Ltd.<br>Village<br>Kabri  | Rect. No.<br>72 | Killa No.<br>1<br>2<br>3<br>4/1<br>9<br>10<br>11<br>12<br>8<br>13<br>18<br>26<br>4/2<br>5<br>6<br>7<br>14<br>15<br>16<br>17<br>24<br>25<br>1<br>10/1<br>4<br>5 | Area(K-M)<br>7-8<br>8-0<br>8-0<br>7-0<br>8-0<br>7-8<br>7-8<br>7-0<br>8-0<br>8-0<br>8-0<br>0-16<br>1-0<br>8-0<br>8-0<br>8-0<br>8-0<br>8-0<br>8-0<br>8-0<br>8-0<br>7-11<br>7-11<br>8-0<br>2-13<br>8-0<br>8-0 |
|     | Kabri  | 72<br>73<br>78  |  |  |

| Village | Rect. No. | Killa No. | Area(K-M) |          |
|---------|-----------|-----------|-----------|----------|
| Kabri   |           | 6         | 6-4       |          |
|         |           | 7/1       | 0-9       |          |
|         |           | 11/2/1    | 5-0       |          |
|         |           | 19        | 7-1       |          |
|         |           | 22        | 7-11      |          |
|         |           | 23        | 7-11      |          |
|         |           | 27        | 0-19      |          |
|         |           | 78        | 2         | 8-0      |
|         |           |           | 3         | 8-0      |
|         |           |           | 8/1       | 1-0      |
|         |           |           | 7/2       | 5-5      |
|         |           | 71        | 17min     | 5-5      |
|         |           |           | 18        | 8-0      |
|         |           |           | 23        | 8-0      |
|         |           |           | 24mn      | 3-9      |
|         |           |           | 16min     | 7-6.5    |
|         |           |           | 25min     | 7-2      |
|         |           | 72        | 20        | 8-0      |
|         |           |           | 21        | 7-11     |
|         |           | 78        | 8/2       | 3-9      |
|         |           |           | 1         | 8-6      |
|         |           |           | 9         | 2-9      |
|         |           |           | 10        | 2-10     |
|         |           | 79        | 5min      | 7-2      |
|         |           |           | 3         | 7-19     |
|         |           |           | 4min      | 3-9      |
|         |           |           | 6/1       | 1-12     |
|         |           |           | 6/2min    | 5-10     |
|         |           |           | 7/1min    | 1-9      |
|         |           |           | 9/1       | 0-8      |
|         |           |           | 9/2       | 7-12     |
|         |           |           | 10/1      | 5-3      |
|         |           |           | 11/1/1    | 0-3      |
|         |           |           | 12/1/1    | 1-5      |
|         |           |           | 12/1/2    | 0-11     |
|         |           | 80        | 11        | 7-12     |
|         |           |           | 12        | 8-0      |
|         |           |           | 14        | 8-0      |
|         |           |           | Total     | 377-17.5 |

15. Details of Land owned by Director cum special secretary department of Town and Country Haryana  
(part of 24.0 mtr road gift deed done vide vasika no. 11671 dated 06.03.2023)

| Village | Rect. No. | Killa No. | Area(K-M) |
|---------|-----------|-----------|-----------|
| Kabri   | 71        | 1/2       | 2-3       |
|         | 79        | 1/2       | 2-17      |
|         | 71        | 20/1/2    | 1-9       |
|         |           | 20/2/2    | 1-7       |
|         |           | 11/2      | 2-5       |
|         |           | 10/2      | 2-5       |
|         |           | 21/2      | 2-17      |
|         | 92        | 20/2      | 2-2       |
|         |           | 1/2       | 2-17      |
|         |           | 10/2      | 2-17      |
|         | 79        | 13/2      | 2-17      |
|         |           | 20/2      | 2-17      |
|         |           | 21/2      | 2-17      |
|         |           | 11/2/2    | 2-16      |
|         |           | 10/2      | 2-17      |
|         |           | 11/3/2    | 0-1       |
|         |           | Total     | 37-4      |

D.T.C.P (HR)  
Gurgaon (Patwar)

|  |  |            |           |
|--|--|------------|-----------|
| 16. Green field colonizers Pvt. Ltd.<br>Village<br>Panipat taraf insar | Khasra No.   | Area(B-B)  |           |
|  | 152  | 6-15       |           |
|  | 153  | 7-13       |           |
|  | 155  | 2-8        |           |
|  | 156  | 3-6        |           |
|  | 157  | 0-15       |           |
|  | 166  | 3-3        |           |
|  | 158/1  | 0-3        |           |
|  | Total  | 24-3       |           |
|  | 17. Bigway Colonizers Pvt. Ltd.<br>Village<br>Panipat taraf insar      | Khasra No. | Area(B-B) |
| 255  |  | 7-4        |           |
| 256  |  | 3-15       |           |
| 257  |  | 3-15       |           |
| 263  |  | 6-12       |           |
| 264min   |  | 3-9        |           |
| 268  |  | 12-12      |           |
| 277  |  | 1-1        |           |
| 258/1  |  | 0-9        |           |
| 266/1min   |  | 0-4        |           |
| 266/2min   |  | 0-14       |           |
| 275/2min   |  | 1-5        |           |
| 276/1  |  | 6-15       |           |
| 278/1min   |  | 2-8        |           |
| 5506/267min  |  | 7-8        |           |
| 5507/267   |  | 6-12       |           |
| Total  |  | 64-3       |           |
| 18. Fineview Realtors Pvt. Ltd.<br>Village<br>Panipat taraf insar      | Khasra No.   | Area(B-B)  |           |
|  | 160  | 7-2        |           |
|  | 161  | 9-0        |           |
|  | 162  | 3-18       |           |
|  | 163  | 6-0        |           |
|  | 169  | 6-3        |           |
|  | 171  | 5-14       |           |
|  | 172  | 5-14       |           |
|  | 183  | 2-14       |           |
|  | 184  | 2-2        |           |
|  | 196  | 2-5        |           |
|  | 173/1  | 0-7        |           |
|  | 173/2  | 7-15       |           |
|  | 186/1  | 1-1        |           |
|  | 187min   | 1-0        |           |
|  | 188min   | 1-8        |           |
|  | 240/2/1  | 0-5        |           |
|  | 180min   | 0-16       |           |
|  | 186/2min   | 0-13       |           |
|  | 186/2min   | 0-13       |           |
|  | 164/2min   | 3-15       |           |
|  | 159/1  | 3-3        |           |
|  | 159/2  | 0-15       |           |
|  | Total  | 72-2       |           |
|  | 19. Grandvalley Developers Pvt. Ltd.<br>Village<br>Panipat taraf insar | Khasra No. | Area(B-B) |
|  |  | 170        | 4-10      |
|  |  | 174min     | 3-11      |
|  |  | 311/2      | 4-12      |
| 312/1  |  | 0-6        |           |
| 138  |  | 0-18       |           |
| 141  |  | 0-12       |           |
| 151  |  | 6-15       |           |

D.T.C.R (HR)  
Suman Choudhary

|     |   |                   |                  |
|-----|---|-------------------|------------------|
|     |   | 154               | 4-1              |
|     |   | <b>Total</b>      | <b>25-5</b>      |
| 20. | Lagoon Club Pvt. Ltd.<br>Village<br>Panipat taraf insar           | <b>Khasra No.</b> | <b>Area(B-B)</b> |
|     |   | 125               | 4-7              |
|     |   | 126               | 0-25             |
|     |   | 127               | 4-10             |
|     |   | 128               | 7-13             |
|     |   | 130               | 1-16             |
|     |   | 131               | 1-7              |
|     |   | 132/2min          | 3-12             |
|     |   | <b>Total</b>      | <b>24-0</b>      |
| 21. | Lagoon Realtors Pvt. Ltd.<br>Village<br>Panipat taraf insar       | <b>Khasra No.</b> | <b>Area(B-B)</b> |
|     |   | 236min            | 7-9.5            |
|     |   | 237min            | 7-7              |
|     |   | 252min            | 1-9              |
|     |   | 253min            | 0-11             |
|     |   | 254min            | 7-3              |
|     |   | 235/2min          | 14-16            |
|     |   | 238/1             | 3-9              |
|     |   | 251min            | 0-14             |
|     |   | <b>Total</b>      | <b>42-18.5</b>   |
| 22. | Moonvalley Realtors Pvt. Ltd.<br>Village<br>Panipat taraf insar   | <b>Khasra No.</b> | <b>Area(B-B)</b> |
|     |   | 578min Magrik     | 4-17             |
|     |   | 578min            | 0-8              |
|     |   | 579min Magrik     | 3-1              |
|     |   | 579min            | 0-5              |
|     |   | 580min Magrik     | 2-16             |
|     |   | 580min            | 0-7              |
|     |   | <b>Total</b>      | <b>11-14</b>     |
| 23. | Starvalley Realtors Pvt. Ltd.<br>Village<br>Panipat taraf insar   | <b>Khasra No.</b> | <b>Area(B-B)</b> |
|     |   | 260min            | 6-11             |
|     |   | 259min            | 5-1              |
|     |   | 261/2             | 0-12             |
|     |   | <b>Total</b>      | <b>12-4</b>      |
| 24. | Uttirna Infraprojects Pvt. Ltd.<br>Village<br>Panipat taraf insar | <b>Khasra No.</b> | <b>Area(B-B)</b> |
|     |   | 306min            | 0-9              |
|     |   | 307               | 0-18             |
|     |   | 308               | 4-7              |
|     |   | 309               | 3-0              |
|     |   | 314               | 2-14             |
|     |   | 315               | 0-6              |
|     |   | 316min            | 5-10             |
|     |   | 317               | 0-18             |
|     |   | 318               | 2-14             |
|     |   | 320               | 2-11             |
|     |   | 323               | 0-9              |
|     |   | 324min            | 0-1              |
|     |   | 325min            | 1-15             |
|     |   | 326               | 4-19             |
|     |   | 327               | 0-18             |
|     |   | 310               | 1-10             |
|     |   | 312/2             | 5-8              |
|     |   | 322min            | 0-10             |
|     |   | 328/1min          | 1-0              |
|     |   | 328/2min          | 0-8              |

D.T.C.P (HR)

S. K. Sharma

| Village             | Khasra No.   | Area(B-B)   |
|---------------------|--------------|-------------|
| Panipat taraf insar | 313min       | 2-15        |
|                     | 180min       | 1-4         |
|                     | 180          | 4-3         |
|                     | 181min       | 2-0         |
|                     | 181min       | 4-9         |
|                     | 182min       | 1-10        |
|                     | 182          | 3-15        |
|                     | 185min       | 2-4         |
|                     | 185min       | 5-9         |
|                     | 186/2min     | 0-9         |
|                     | 186/2min     | 6-11        |
|                     | 187min       | 2-6         |
|                     | 188min       | 3-11        |
|                     | 197/1        | 2-10        |
|                     | 197/2        | 3-5         |
|                     | <b>Total</b> | <b>86-6</b> |

Grand Total of Village Kabri= 1410K-11.5 or 176.321875 acres

Grand Total of Village Panipat taraf insar= 362B-15.58 or 75.578125 acres

Grand Total or 251.90 acres

Khasra no. 259 min (1-15-0), 260min (3-7-0), 261/2 min (0-11-10), 313 min (0-8-3), 311/2 min (2-0-6), 312/1 min (0-2-10), 312/2min (1-12-9), 363min (2-7-4), 237 min (0-6-11), 238/1 min (0-15-7), 236 min (0-19-18), 235/2 min (11-18-17), 266/2 min (0-0-19), 174/1 min (0-7-1), 173/1 min (0-3-0), 173/2 min (1-16-8), 180 min (2-17-13), 172 min (0-12-7), 264min (0-1-2), 171 min (1-3-16), 170 min (3-15-15), 160 min (4-3-12), 161 min (6-14-6), 183 min (1-6-11), 182 min (3-16-11), 181 min (4-6-0), 187 min (1-18-2), 188 min (2-3-6), 186/1 (0-3-0), 186/2 min (4-19-12), 185 min (4-16-0), 184 min (0-5-5), 196 min (1-19-17), 197/1 min (1-1-3), 163 min (4-13-15), 162 min (3-5-8), 159/1 min (1-16-0), 164 min (2-16-11), 197/2 min (0-5-7), 138 min (0-2-7), 153 min (4-6-6), 154 min (2-7-18), 155 min (1-8-10), 156 min (1-9-0), 157 min (0-16-11), 152 min (3-13-14), 578 min (3-1-10), 580 min (0-10-14), 579 min (0-0-4), 131 min (0-8-2), 132 min (1-4-12) Total 107B-2-8-10B OR 22.3177 acres in the revenue estate of Village Taraf Insar & Khasra no. 77//3 min (1-14), 4 min (4-0), 8 min (0-5) Total 5K-19M or 0.74375 acres in the revenue estate of Village Kabri- G.Total 23.06145 Acres are under mortgaged.

Director Town & Country  
Planning Haryana  
Chandigarh  
*Gurpreet (Patidar)*