



# JAL NIGAM YANTRIK KHAND U.P. JAL NIGAM MEERUT


## Completion Plan of Tube Well

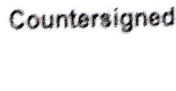
Name of scheme SIKKA w/s Jhansu shanti Spring water level in Mtrs 19.80  
 Total No. of tube well provided in the scheme 01 Size of Bore in M.M. 675 X 550  
 Number & Location of tube-well executed 01 Date of Completion of T.W. 29-3-2016  
 Name of contractor M/s. Pioneer Drilling Co. GZB.

| Depth B.G.L. in Meter | Boring Chart with representation | Stratum      | Executed Assembly | ABSTRACT   |
|-----------------------|----------------------------------|--------------|-------------------|--|
|                       |                                  |              | 14.21             |  |
| 0-4.57                |                                  | surface clay |                   | 1. Drilling Started <u>12-2-16</u>                         |
| 4.57-19.21            |                                  | F.M. Sand    | 37.92             | 2. Drilling Completed <u>25-2-16</u>                       |
| 19.21-28.96           |                                  | clay         | 42.92             |  |
| 28.96-44.28           |                                  | Med sand     |                   | 3. Lowering on <u>27-2-16</u>                              |
| 44.20-56.39           |                                  | clay         |                   |  |
| 56.39-62.48           |                                  | core sand    | 57.10             | 4. Drilling Depth <u>162.0</u> M                           |
|                       |                                  |              | 60.10             |  |
| 62.48-65.53           |                                  | Sandy clay   | 63.10             | 5. <u>350</u> mm dia Housing Pipe <u>63.10</u> M           |
|                       |                                  |              | 63.20             |  |
| 65.53-77.72           |                                  | Med Sand     | 67.34             | 6. <u>300</u> mm dia Reducer Pipe <u>0.0</u> M             |
|                       |                                  |              | 76.47             | 7. <u>200</u> mm dia Blind Pipe <u>76.72</u> M             |
| 77.72-89.92           |                                  | clay         |                   |  |
| 89.92-92.96           |                                  | Sandy clay   |                   | 8. <u>200</u> mm dia Slotted Pipe <u>15.02</u> M           |
| 92.96-105.15          |                                  | clay         |                   | 9. Discharge by Compressor <del>2000</del> <u>1538</u> LPM |
| 105.15-115.82         |                                  | F.M. Sand    | 108.28            | 10. Discharge by O.P. Unit <u>2000</u> LPM                 |
|                       |                                  |              | 114.17            | 11. Remark if any:-  |
|                       |                                  |              |                   | 1. Make - VARUNA   |
|                       |                                  |              |                   | 2. Discharge - 2000 LPM                                    |
| 115.82-138.68         |                                  | clay         |                   | 3. HP - 35   |
|                       |                                  |              | 139.53            | 4. Stage - 4   |
| 138.68-149.35         |                                  | Med sand     | 148.66            | 5. Head - 43 mt.   |
|                       |                                  |              | 154.84            | 6. Column pipe - 150 mm φ<br>33 mt. length                 |

  
 Contractor
 

  
 J. E.
 

  
 A. E.
 

 Countersigned  
  
 E. E.

### YIELD TEST OF TW BY COMPRESSION

|                                 |                  |                        |       |           |        |            |        |                |  |      |  |
|---------------------------------|------------------|------------------------|-------|-----------|--------|------------|--------|----------------|--|------|--|
| Date of Test                    |                  | 15/03/2016             |       | Blade Wt. |        | 30 Pp. 104 |        | Taste of Water |  | Swee |  |
| Discharge in M <sup>3</sup> /hr |                  | Sand Contents in P.P.M |       |           |        |            |        | Remarks        |  |      |  |
| 0 min                           | 10 min           | Start                  | 5 Min | 10 Min    | 15 Min | 20 Min     | 30 Min | 40 Min         |  |      |  |
| 8 <sup>00</sup>                 | 15 <sup>00</sup> | 1800                   | 1400  | 100       | cl     | cl         | cl     |                |  |      |  |

*[Signature]*  
S. S. S.

*[Signature]*  
J. E.

*[Signature]*  
A. E.

E. E.

### YIELD TEST REPORT BY O.P. UNIT

Size of orifice 1508/35 mm    Taste of water    Swee    Date of Test    23/03/16

| Height of water column in orifice (cm) | Discharge in L PM | SWR in Mts | RWR in Mts | Depression in Mts | SAND CONTENTS IN P.P.M |       |        |        |        |        |        | Recommendations  |
|--|-------------------|------------|------------|-------------------|------------------------|-------|--------|--------|--------|--------|--------|--|
|  |                   |            |            |                   | Slating                | 5 Mts | 10 Mts | 15 Mts | 20 Mts | 25 Mts | 30 Mts |  |
| 19                                     | 2027              | 19.80      | 17.08      | 3.10              | 200                    | Tr    | cl     | cl     | cl     | cl     | cl     | Recommended discharge 2000 LPM at 3/4th depression<br>Recommended Pumping plant discharge 2300 LPM |
| 25                                     | 2300              | 19.80      | 17.23      | 3.25              | 300                    | 100   | cl     | cl     | cl     | cl     | cl     |  |
| 30                                     | 2526              | 19.80      | 17.38      | 3.40              | 500                    | 200   | Tr     | cl     | cl     | cl     | cl     |  |
| 40                                     | 2953              | 19.80      | 17.58      | 3.60              | 700                    | 300   | 100    | Tr     | cl     | cl     | cl     |  |

*[Signature]*  
S. S. S.

*[Signature]*  
J. E.

*[Signature]*  
A. E.

E. E.

### CHEMICAL TEST REPORT

DATE OF TEST

AGENCY    F.E.    T&T    C.D.    H.E.P.U.T

mg/l.l

mg/l.l

1640/16, 291/DI-2-4-2016

mg/l.l

mg/l.l

|       |               |           |       |         |
|-------|---------------|-----------|-------|---------|
| Color | Hardness Temp | Chlorides | 15    | Remarks |
| 9.00  | Temp          | Hardness  | 111   |         |
| 1.65  | 10.167        | Fluorides | 0.079 |         |
| 1000  | 1000          | Alumina   |       |         |
| 14.19 |               |           |       |         |
|       |               |           |       |         |
|       |               |           |       |         |
|       |               |           |       |         |