



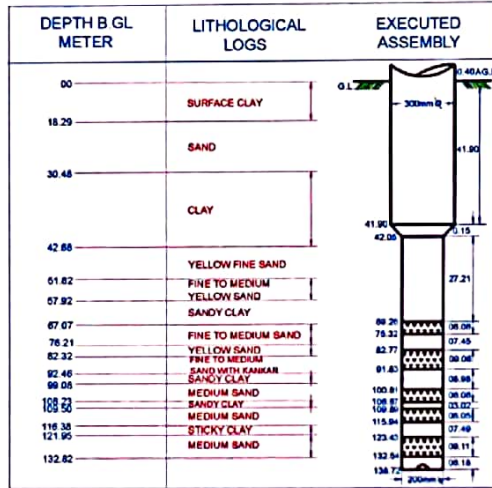
**OFFICE OF THE EXECUTIVE ENGINEER
JAL NIGAM YANTRIK KHAND
U.P. JAL NIGAM MEERUT**

COMPLETION PLAN OF TUBEWELL

(YEAR - 2013-2014)

NAME OF SCHEME - JADODA PANDA T/W
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 1 NO.
LOCATION OF TUBE WELL - NEAR MANDIR.
NAME OF CONTRACTOR - M/S B.S TUBEWELLS,GZB.

SPRING WATER LEVEL IN. MTRS - 10.67 M
SIZE OF BORE - 875 X 550 MM
DATE OF COMPLETION OF T.W. - 24.11.2013



| ABSTRACT | |
|----------|---|
| 1 | DRILLING STARTED ON 29.09.2013 |
| 2 | DRILLING COMPLETED ON 07.10.2013 |
| 3 | LOWERING ON 06.10.2013 |
| 4 | DRILLING DEPTH 132.82 M |
| 5 | 300 MM DIA HOUSING PIPE 42.30 M |
| 6 | 300X200 MM DIA REDUCER 0.15 M |
| 7 | 200 MM DIA BLIND PIPE 60.33 M |
| 8 | 200 MM DIA SLOTTED PIPE 38.34 M |
| 9 | DISCHARGE BY COMPRESSOR 1536 L.P.M |
| 10 | DISCHARGE BY O.P UNIT 2000 L.P.M |
| 11 | PUMPING PLANT - MAKE - K.S.B DISCHARGE - 2000 LPM HEAD - 80 M H.P. - 40 COLUMN PIPES - 150 MM DIA X 38 M |

YIELD TEST OF T/W BY COMPRESSOR

DATE OF TEST - 20.10.2013 STATIC W/L - 10.30 M TASTE OF WATER . SWEET

| DISCHARGE BY V NOTCH | | SAND CONTENTS IN PPM | | | | | REMARKS | |
|------------------------|------------------|----------------------|-------------|--------------|--------------|--------------|-------------|--|
| Height Of Water in cm. | Discharge in Lpm | Starting | After 5 min | After 10 min | After 15 min | After 30 min | After 60min | |
| 20.3 | 1536 | 2200 | 850 | 170 | 20 | Tr. | Tr. | |

YIELD TEST OF T/W BY O.P UNIT

(As Per IS - 2800)

DATE OF TEST - 24.11.2013 STATIC W/L - 08.35 M TASTE OF WATER - SWEET

| ORIFICE TUBE HEIGHT IN INCH. | DISCHARGE IN L.P.M | SWL IN Mts. | RWL IN Mts. | DEPRESSION IN L.P.M | STARTING | SAND CONTENTS IN P.P.M | | | | | RECOMMENDATIONS |
|------------------------------|--------------------|-------------|-------------|---------------------|----------|------------------------|--------------|--------------|--------------|--------------|--|
| | | | | | | After 5 min | After 10 min | After 15 min | After 20 min | After 25 min | |
| 14.00 | 1760 | 08.35 | 10.70 | 2.35 | 50 | TR. | CL. | CL. | CL. | CL. | Recommended discharge 2000LPM at 2.55M depression. Pump should be run in bypass for 8 minutes before supply of water in rising main. |
| 19.00 | 2029 | 08.35 | 10.90 | 2.55 | 75 | 80 | TR. | CL. | CL. | CL. | |
| 25.00 | 2300 | 08.35 | 11.25 | 2.90 | 160 | 100 | 50 | TR. | TR. | CL. | |
| 50.00 | 3300 | 08.35 | 12.30 | 3.95 | 370 | 260 | 150 | 50 | TR. | TR. | |
| 60.00 | 3596 | 08.35 | 13.25 | 4.90 | 490 | 320 | 180 | 50 | TR. | TR. | |

CHEMICAL TEST REPORT

(As Per IS - 10500)

DATE OF TEST - 29.11.2013

AGENCY-EE PRATHAM KHAND,UPJN,MRT.

| S. NO | SUBSTANCE OR CHARACTERISTIC | LIMIT | | | S. NO | SUBSTANCE OR CHARACTERISTIC | LIMIT | | |
|-------|---|------------|---------------|--------|-------|-------------------------------------|-----------|------|--------|
| | | DESIRABLE | MAX. | ACTUAL | | | DESIRABLE | MAX. | ACTUAL |
| 1 | Colour,Hazen,Unit | 5 | 25 | — | 9 | Dissolved solids mg/L | 500 | 2000 | 195 |
| 2 | Turbidity,NTU | 5 | 10 | — | 10 | Calcium as(Ca) mg/L | 75 | 200 | — |
| 3 | PH value | 6.5 to 8.5 | No Relaxation | 06.95 | 11 | Magnesium* as (Mn) mg/L | 30 | 100 | — |
| 4 | Total Hardness as (CaCO ₃) mg/L | 300 | 600 | 100 | 12 | Copper as (Cu) mg/L | 0.05 | 1.5 | — |
| 5 | Iron as (Fe),mg/L | 0.3 | 1.00 | 1.0 | 13 | Sulphate as (SO ₄) mg/L | 200 | 400 | 24.9 |
| 6 | Chlorides as (Cl),mg/L | 250 | 1000 | 11 | 14 | Nitrate as(NO ₃) mg/L | 45 | 100 | 4.43 |
| 7 | Residual Free Chlorine,mg/L | 0.2 | — | — | 15 | Alkalinity,mg/L | 200 | 600 | 130 |
| 8 | Fluoride as (F),mg/L | 1.0 | 1.5 | 0.08 | | | | | |

Note - All dimensions are in metres.

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