

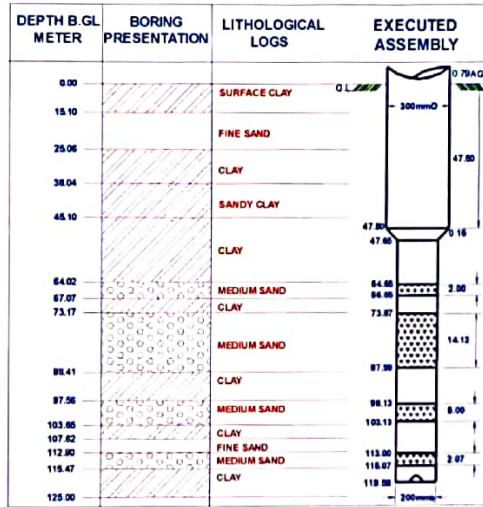


**OFFICE OF THE EXECUTIVE ENGINEER  
JAL NIGAM YANTRIK KHAND  
U.P. JAL NIGAM MEERUT  
COMPLETION PLAN OF TUBEWELL**

(YEAR - 2014-2015)

NAME OF SCHEME - KHERA AFGAN W/S SCHEME DISTT SAHARANPUR.  
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 2 NOS.  
LOCATION OF TUBE WELL - MANGO GARDEN TW NO.2  
NAME OF CONTRACTOR - M/S D.L.F. GANGA NAGARI HARDWAR

SPRING WATER LEVEL IN. MTRS - 15.00 M  
SIZE OF BORE - 675 X 550 MM  
DATE OF COMPLETION OF TW- 02.02.2015



ABSTRACT	
1. DRILLING STARTED ON	21.11.2014
2. DRILLING COMPLETED ON	28.11.2014
3. LOWERING ON	28.11.2014
4. DRILLING DEPTH	125.00 M
5. 300 MM DIA HOUSING PIPE	48.29 M
6. 300X200 MM DIA REDUCER	0.15 M
7. 200 MM DIA BLIND PIPE	48.72 M
8. 200 MM DIA SLOTTED PIPE	23.18 M
9. DISCHARGE BY COMPRESSOR	900 LPM
10. DISCHARGE BY O.P UNIT	1000 LPM
11. PUMPING PLANT - MAKE - W.P.I.L DISCHARGE - 1000 LPM HEAD - 42 M H.P. - 15 COLUMN PIPES - 100 MM DIA X 30 M	

**YIELD TEST OF T/W BY COMPRESSOR**

DATE OF TEST - 22.12.2014      STATIC W/L - 15.00 M      TASTE OF WATER . SWEET

Height Of Water	Discharge In Lpm	SAND CONTENTS IN PPM						REMARKS
		starting	After 5 min	After 10 min	After 15 min	After 30 min	After 60min	
6.5"	900	1500	450	150	Tr.	Tr.	CL.	

**YIELD TEST OF T/W BY O.P UNIT**

(As Per IS - 2800)

DATE OF TEST - 02.02.2015      STATIC WL - 14.50 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 30 min	
14"	920	14.50	15.70	1.20	Tr.	CL	CL	CL	CL	CL	Recommended discharge 1000 LPM at 1.40MT. depression. Pump should be run in bypass for 5 minutes before supply of water in rising man.
18"	1026	14.50	15.90	1.40	Tr.	CL	CL	CL	CL	CL	
30"	1310	14.50	16.50	2.00	15	CL	CL	CL	CL	CL	
40"	1610	14.50	17.10	2.60	60	10	Tr	CL	CL	CL	

**CHEMICAL TEST REPORT**

(As Per IS - 10500)

DATE OF TEST - 09.02.2015

AGENCY - EE 1st DIV U.P Jal Nigam 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	224
2.	Turbidity, NTU	5	10	---	10.	Calcium as(Ca) mg/L	75	200	---
3.	PH value	6.5 to 8.5	No Relaxation	7.45	11.	Magnesium* as (Mn), mg/L	30	100	---
4.	Total Hardness as (CaCO <sub>3</sub> ) mg/L	300	600	106	12	Copper as (Cu) mg/L	0.05	1.5	---
5.	Iron as (Fe), mg/L	0.3	1.00	0.043	13.	Sulphate as (SO <sub>4</sub> ) mg/L	200	400	7.87
6.	Chlorides as (Cl), mg/L	250	1000	11	14.	Nitrate as(NO <sub>3</sub> ) mg/L	45	100	3.98
7.	Residual Free Chlorine, mg/L	0.2	---	---	15.	Alkalinity, mg/L	200	600	200
8.	Fluoride as (F), mg/L	1.0	1.5	0.109					

Note - All dimensions are in metres.

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