



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

NABL

RSPCB

ISO 9001:2008

OHSAS 18001:2007

JDA

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## TEST REPORT

Report No	: AJ/477
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 23/06/2013 to 24/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: Ambient Air Quality Monitoring
Point of Collection	: Plant Site (Near Admin Block)
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	86.75	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	44.70	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	8.26	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	15.00	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.26	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	264.22	

Note:-

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*Rajan*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager  
(Report No: A /477)



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## TEST REPORT

Report No	: A/489
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Industry
Date of Monitoring	: 24/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013
Sample Collected by	: Puran ma[ yogi
Type of Monitoring	: Ambient Noise Monitoring
Instrument Used	: Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Near Admin Block (Office)	Industrial Area	57.2	50.7
2.	Near Switch Yard ( Pellet Plant)	Industrial Area	62.5	58.0
3.	Near Tata Blue Scope (Crusher Unit)	Industrial Area	71.6	65.8
4.	Near Gate No.1 (Mill Area)	Industrial Area	60.3	55.6
5.	Near raw material Storage Yard (Mines Area)	Industrial Area	55.3	48.6

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*Rajesh*

Rajesh Maheshwari  
Technical Manager

*Mathur*

Kavita Mathur  
Quality Manager  
(Report No.: - A/489)



# TEAM TEST HOUSE

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T-1736, I-2276

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## TEST REPORT

Report No.  
Date  
Issued to

: WW/253  
: 06/07/2013  
: M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.

Type of Unit  
Type of Sample  
Date of Sample Collection  
Date of sample receipt  
Date of Test  
Sample Collected By  
Sampling Location

: Mines  
: Waste Water  
: 24/06/2013  
: 25/06/2013  
: 25/06/2013 to 01/07/2013  
: Rakesh Sharma  
: Tailing Recycling Water

## RESULTS

S. No	Parameters	Observed Value	Testing Protocol
1.	pH	7.68	IS 3025 (Part11)
2.	Total Suspended Solids mg/l	56	IS 3025 (Part17)
3.	Oil & Grease mg/l	3.1	IS 3025 (Part39)
4.	Biochemical Oxygen Demand (3 days at 27°C) mg/l	8.5	IS 3025 (Part44)
5.	Chemical Oxygen Demand mg/l	31.6	IS 3025 (Part58)

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*Rajesh*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
for Kavita Mathur  
Quality Manager  
(Report No: WW/253)



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## TEST REPORT


Report No : WW/255  
Date : 06/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Type of Sample : Waste Water  
Date of Sample Collection : 24/06/2013  
Date of sample receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Rakesh Sharma  
Sampling Location : Reservoir Water (Treated water of STP Plant)

## RESULTS

S. No	Parameters	Observed Value	Testing Protocol
1.	pH	8.01	IS 3025 (Part11)
2.	Total Suspended Solids mg/l	48	IS 3025 (Part17)
3.	Oil & Grease mg/l	3.2	IS 3025 (Part39)
4.	Biochemical Oxygen Demand (3 days at 27°C) mg/l	8.2	IS 3025 (Part44)
5.	Chemical Oxygen Demand mg/l	52.77	IS 3025 (Part58)

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No: WW/255)



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## TEST REPORT

Report No : W/252  
Date : 03/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
& District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Drinking Water Nr Admin Block  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.23	6.5 - 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	40	300	600
7.	Chlorides as Cl	mg/l	18.9	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	96	500	2000
10.	Calcium as Ca	mg/l	12	75	200
11.	Magnesium as Mg	mg/l	2.43	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	Less than 0.01	5	-
17.	Boron as B	mg/l	Less than 0.01	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	36	200	600

*Matha*



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S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	10.2	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	4.8	45	-
22.	Fluoride as F	mg/l	0.12	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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Rajesh Maheshwari  
Technical Manager

Kavita Mathur  
Quality Manager  
(Report No.: - W/NABL/252)



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## TEST REPORT

Report No	: A/465
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 20/06/2013 to 21/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: Ambient Air Quality Monitoring
Point of Collection	: Biliya Village (Old Bajali Temple)
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	91.36	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	35.62	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	8.47	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	16.28	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.25	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	247.9	

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mather  
Quality Manager  
(Report No: A/465)



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## TEST REPORT

Report No	: A/466
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 20/06/2013 to 21/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: Ambient Air Quality Monitoring
Point of Collection	: Bhadu Village (Gopal das pump operator- on Roof)
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	87.32	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	54.26	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	8.65	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	15.6	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.26	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	254.85	

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Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager



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## TEST REPORT

Report No : **A/467**  
Date : **02/07/2013**  
Issued to : **M/s. Jindal Saw Limited**  
**Village Pur Near Tiranga Hills (Dhedwas mine),**  
**Tehsil & District – Bhilwara – 311802**  
**Rajasthan.**

Type of Unit : **Mines**  
Collected/Monitored by : **Mr. Puran Mal Yogi**  
Date of Sample Collection : **20/06/2013 to 21/06/2013**  
Date of Sample Receipt : **25/06/2013**  
Date of Test : **25/06/2013 to 02/07/2013**  
Duration of Sampling : **24 Hours**  
Type of Monitoring/Sampling : **Ambient Air Quality Monitoring**  
Point of Collection : **Dariba Village**  
Sampling Instrument : **Respirable Dust Sampler APM 460 BL & Fine**  
**Particulate Sampler APM 550**  
Testing Protocol : **As per CPCB Guidelines**

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	87.45	100
2.	Particulate Matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	36.54	60
3.	Sulphur Dioxide as SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	6.42	80
4.	Oxides of Nitrogen as NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	14.04	80
5.	Carbon Monoxide as CO ( $\text{mg}/\text{m}^3$ )	0.21	04
6.	Suspended Particulate Matter (SPM) $\mu\text{g}/\text{m}^3$	226.42	

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Kavita Mathur  
Quality Manager  
(Report No: A/467)



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## TEST REPORT

Report No	: A/468
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 20/06/2013 to 21/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: <b>Ambient Air Quality Monitoring</b>
Point of Collection	: <b>Dhulkhera Village (on Roof of Mulla Ram Saini)</b>
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	86.32	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	32.58	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	7.65	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	14.25	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.22	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	240.18	-

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*Rajesh*  
Rajesh Maheshwari  
Technical Manager

*Mather*  
Kavita Mathur  
Quality Manager  
(Report No: A /468)



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## TEST REPORT

Report No	: A/469
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District - Bhilwara - 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 21/06/2013 to 22/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: Ambient Air Quality Monitoring
Point of Collection	: Gandhi Sagar Village
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	84.65	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	34.56	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	8.02	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	15.46	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.26	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	278.56	-

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*Raj*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager  
(Report No: A/469)



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

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ISO 9001:2008

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Ph.: 94602-22039, 94602-22049  
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## TEST REPORT

Report No : A/470  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Collected/Monitored by : Mr. Puran Mal Yogi  
Date of Sample Collection : 21/06/2013 to 22/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Duration of Sampling : 24 Hours  
Type of Monitoring/Sampling : Ambient Air Quality Monitoring  
Point of Collection : Gundali Village  
Sampling Instrument : Respirable Dust Sampler APM 460 BL & Fine  
Particulate Sampler APM 550  
Testing Protocol : As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	72.65	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	31.25	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	7.24	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	12.35	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.21	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	224.56	

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Rajesh Maheshwari  
Technical Manager

Kavita Mathur  
Quality Manager  
(Report No: A /470)



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## TEST REPORT

Report No	: A/471
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 21/06/2013 to 22/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/13 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: <b>Ambient Air Quality Monitoring</b>
Point of Collection	: <b>Kanoli Village (Kuldeep Singh House-on Roof)</b>
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	85.46	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	36.69	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	6.88	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	13.6	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.24	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	246.30	

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*Rajesh*  
Rajesh Maheshwari  
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*Kavita*  
Kavita Mathur  
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## TEST REPORT

Report No : A/472  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Collected/Monitored by : Mr. Puran Mal Yogi  
Date of Sample Collection : 21/06/2013 to 22/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Duration of Sampling : 24 Hours  
Type of Monitoring/Sampling : Ambient Air Quality Monitoring  
Point of Collection : Mandal Village  
Sampling Instrument : Respirable Dust Sampler APM 460 BL & Fine  
Particulate Sampler APM 550  
Testing Protocol : As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	81.75	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	34.56	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	7.42	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	15.26	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.23	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	241.25	

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Rajesh Maheshwari  
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Kavita Mathur  
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## TEST REPORT

Report No	: A/473
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga, Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 22/06/2013 to 23/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: Ambient Air Quality Monitoring
Point of Collection	: Pur Village (Nr. Ganesh Mandir)
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per NEERI Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	86.7	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	42.8	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	7.6	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	14.2	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.21	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	176.5	

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## TEST REPORT

Report No : A/474  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Collected/Monitored by : Mr. Puran Mal Yogi  
Date of Sample Collection : 22/06/2013 to 23/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Duration of Sampling : 24 Hours  
Type of Monitoring/Sampling : Ambient Air Quality Monitoring  
Point of Collection : Samodi Village (Balaji Temple-on roof)  
Sampling Instrument : Respirable Dust Sampler APM 460 BL & Fine  
Particulate Sampler APM 550  
Testing Protocol : As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	90.41	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	42.56	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	8.25	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	15.63	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.24	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	256.54	-

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No: A /474)



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## TEST REPORT

Report No	: A/475
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Collected/Monitored by	: Mr. Puran Mal Yogi
Date of Sample Collection	: 22/06/2013 to 23/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 02/07/2013
Duration of Sampling	: 24 Hours
Type of Monitoring/Sampling	: Ambient Air Quality Monitoring
Point of Collection	: Suras Village (Rashan Lal Gurjar House-on Roof)
Sampling Instrument	: Respirable Dust Sampler APM 460 BL & Fine Particulate Sampler APM 550
Testing Protocol	: As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) µg/m <sup>3</sup>	84.47	100
2.	Particulate Matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	34.75	60
3.	Sulphur Dioxide as SO <sub>2</sub> (µg/m <sup>3</sup> )	7.55	80
4.	Oxides of Nitrogen as NO <sub>2</sub> (µg/m <sup>3</sup> )	14.71	80
5.	Carbon Monoxide as CO (mg/m <sup>3</sup> )	0.24	04
6.	Suspended Particulate Matter (SPM) µg/m <sup>3</sup>	260.33	

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*Rajesh*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager  
(Report No: A /475)



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## TEST REPORT

Report No : A/476  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Collected/Monitored by : Mr. Puran Mal Yogi  
Date of Sample Collection : 22/06/2013 to 23/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Duration of Sampling : 24 Hours  
Type of Monitoring/Sampling : Ambient Air Quality Monitoring  
Point of Collection : Suwana Village  
Sampling Instrument : Respirable Dust Sampler APM 460 BL & Fine  
Particulate Sampler APM 550  
Testing Protocol : As per CPCB Guidelines

## RESULTS

S. No	Parameters	Observed Value	Limits as per National Ambient Air Quality Standards
1.	Particulate Matter (PM <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	81.26	100
2.	Particulate Matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	40.25	60
3.	Sulphur Dioxide as SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	7.56	80
4.	Oxides of Nitrogen as NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	14.61	80
5.	Carbon Monoxide as CO ( $\text{mg}/\text{m}^3$ )	0.22	04
6.	Suspended Particulate Matter (SPM) $\mu\text{g}/\text{m}^3$	271.46	

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No: A /476)



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## TEST REPORT

Report No : A/477  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil &  
District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 20/06/2013 to 21/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value   Leq dB (A)  Day Time	Observed value   Leq dB (A)  Night Time
1.	Pur Village (Near Ganesh Mandir)	Rural Area	52.4	43.7

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Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - A/477)



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## TEST REPORT

Report No : A/478  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 21/06/2013 to 22/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Mandal Village (Nr. Neelkanth Mahadev Mandir)	Rural Area	54.0	44.3

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## TEST REPORT

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Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District - Bhilwara - 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 20/06/2013 to 21/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

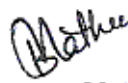
## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Samodi Village ( Near Balaji Temple)	Rural Area	50.3	41.5

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## TEST REPORT

Report No : A/479  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 20/06/2013 to 21/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Biliya Village (Nr. Balaji Temple)	Rural Area	52.1	40.5

### Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - A/479)



# TEAM TEST HOUSE

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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : A/480  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 20/06/2013 to 21/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Suwana Village (Nr. PHED Cumpas)	Rural Area	48.6	40.2

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - A/480)



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## TEST REPORT


Report No : A/481  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 21/06/2013 to 22/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Gundali Village (Nr. Bheru Temple)	Rural Area	49.3	38.5

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - A/481)



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### TEST REPORT

Report No : A/482  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 21/06/2013 to 22/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran Mal Yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

### RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Kanoli Village (Nr. Kuldeep Singh Ranawat House)	Rural Area	48.2	37.8

**Note: -**

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Rajesh Maheshwari  
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Kavita Mathur  
Quality Manager  
(Report No.: - A/482)



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## TEST REPORT

Report No : A/484  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 21/06/2013 to 22/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Gandhi Sagar Village (Gandhi Park)	Rural Area	53.4	43.2

Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - A/484)



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## TEST REPORT

Report No : A/485  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District - Bhilwara - 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 22/06/2013 to 23/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Bhadu Village (Nr. Gopal Das Home)	Rural Area	50.8	41.0

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Rajesh Maheshwari  
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Quality Manager  
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## TEST REPORT

Report No : A/486  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 22/06/2013 to 23/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Dhulkhera Village (Nr. Mulla Ram Saini House)	Rural Area	48.3	37.1

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## TEST REPORT

Report No : A/486  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 22/06/2013 to 23/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter

## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Suras Village (Nr. Roshanlal Gurjar Home)	Rural Area	51.7	42.1

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Kavita Mathur  
Quality Manager  
(Report No.: - A/486)



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## TEST REPORT

Report No : A/487  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Industry  
Date of Monitoring : 22/06/2013 to 23/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013  
Sample Collected by : Puran mal yogi  
Type of Monitoring : Ambient Noise Monitoring  
Instrument Used : Noise Level meter


## RESULTS

Sr. No.	Point Of Monitoring	Type of Area	Observed value [ Leq dB (A)] Day Time	Observed value [ Leq dB (A)] Night Time
1.	Dariba Village (Nr. Ayurvedic Dispensary)	Rural Area	49.6	38.5

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager.  
(Report No.: - A/487)



# TEAM TEST HOUSE

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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/NABL/241  
 Date : 02/07/2013  
 Issued to : M/s. Jindal Saw Limited  
 Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
 & District - Bhilwara - 311802  
 Rajasthan.  
 Type of Unit : Mines  
 Date of Sample Collection : 24/06/2013  
 Date of Sample Receipt : 25/06/2013  
 Date of Test : 25/06/2013 to 01/07/2013  
 Sample Collected By : Mr. Puran Mal Yogi  
 Point of Collection : Baliya Village (Govt. Supply Water From mejadam  
 Parmanand Punyia House)  
 Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.30	6.5 - 8.5	-
2.	Color	Hazen	1	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	476	300	600
7.	Chlorides as Cl	mg/l	76.17	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	756	500	2000
10.	Calcium as Ca	mg/l	115.2	75	200
11.	Magnesium as Mg	mg/l	45.68	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	0.04	5	-

*Ataru*



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E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.38	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	400	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	72.15	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	36.58	45	-
22.	Fluoride as F	mg/l	1.45	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

**Note: BDL stands for Below Detection Level**

Note: -

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*Rajesh*  
Rajesh Malleshwari  
Technical Manager

*Kavita Mathur*  
Kavita Mathur  
Quality Manager  
(Report No: - W/NABL/241)



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**TEST REPORT**

Report No : W/241  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Baliya Village (Govt. Supply Water From mejadam  
Parmanand Pinyia House)  
Test Protocol : APHA 21<sup>st</sup> Edition

**RESULTS**

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	10	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

**Note: -**

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/241)



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## TEST REPORT

Report No : W/NABL/242  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
& District - Bhilwara - 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Bhadhu Village (Well Water from Banjari Mines)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.85	6.5 - 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	168	300	600
7.	Chlorides as Cl	mg/l	24	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	333	500	2000
10.	Calcium as Ca	mg/l	52.8	75	200
11.	Magnesium as Mg	mg/l	8.75	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	Less than 0.01	5	-

*B. K. Singh*



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E-mail : teamtest@rediffmail.com


17.	Boron as B	mg/l	0.30	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	240	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	18.05	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	6.50	45	-
22.	Fluoride as F	mg/l	0.55	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-


Note:

BDL stands for Below Detection Level

Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/242)



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/242  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Bhadhu Village (Well Water from Banjari Mirfes)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	20	-	-
2.	Total Chromium as Cr.	mg/l	0.04	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.01	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent


Note:

BDL stands for Below Detection Level

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W242)



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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/NABL/243  
 Date : 02/07/2013  
 Issued to : M/s. Jindal Saw Limited  
 Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
 & District – Bhilwara – 311802  
 Rajasthan.  
 Type of Unit : Mines  
 Date of Sample Collection : 24/06/2013  
 Date of Sample Receipt : 25/06/2013  
 Date of Test : 25/06/2013 to 01/07/2013  
 Sample Collected By : Mr. Puran Mal Yogi  
 Point of Collection : Dariba (Tubewell Water- Arvidic Dispansary)  
 Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.45	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	0.15	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	680	300	600
7.	Chlorides as Cl	mg/l	130	250	1000
8.	Iron as Fe	mg/l	0.03	0.3	1.0
9.	Total Dissolved Solids	mg/l	925	500	2000
10.	Calcium as Ca	mg/l	180	75	200
11.	Magnesium as Mg	mg/l	55.89	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	0.02	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	0.09	5	-
17.	Boron as B	mg/l	0.21	1	5

*Bathu*



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E-mail : teamtest@rediffmail.com

18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	400	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	202.34	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	15.45	45	-
22.	Fluoride as F	mg/l	0.61	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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Rajesh Maheshwari  
Technical Manager

Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/243)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/243  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Dariba (Tubewell Water- Arvidic Dispansary)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids, mg/l	mg/l	16	-	-
2.	Hexavalent Chromium as Cr <sup>+6</sup>	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

Note:

BDL stands for Below Detection Level

Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/243)



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## TEST REPORT

Report No : W/244  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Dhulkhera (Tubewell Water-Govt. Suipply)  
Test Protocol : APHA 21<sup>st</sup> Edition


## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	10	-	-
2.	Total Chromium as Cr	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/244)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : **W/NABL/244**  
 Date : **02/07/2013**  
 Issued to : **M/s. Jindal Saw Limited**  
**Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil**  
**& District - Bhilwara - 311802**  
**Rajasthan.**  
 Type of Unit : **Mines**  
 Date of Sample Collection : **24/06/2013**  
 Date of Sample Receipt : **25/06/2013**  
 Date of Test : **25/06/2013 to 01/07/2013**  
 Sample Collected By : **Mr. Puran Mal Yogi**  
 Point of Collection : **Dhulkhera (Tubewell Water-Govt. Supply)**  
 Test Protocol : **APHA 21<sup>st</sup> Edition**

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.95	6.5 - 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	600	300	600
7.	Chlorides as Cl	mg/l	130	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	854	500	2000
10.	Calcium as Ca	mg/l	160	75	200
11.	Maghesium as Mg	mg/l	36.45	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	0.01	0.05	-
16.	Zinc as Zn	mg/l	0.19	5	-



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E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.28	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	370	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	70.55	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	38.2	45	-
22.	Fluoride as F	mg/l	1.02	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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Rajesh Maheshwari  
Technical Manager

Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/244)



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## TEST REPORT

Report No : W/245  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 02/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Ghandi Sagar Village (Tubewell Water of Ganfhi Park)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids.	mg/l	16	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent


Note:

BDL stands for Below Detection Level

Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/245)



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## TEST REPORT

Report No : **W/NABL/245**  
Date : **02/07/2013**  
Issued to : **M/s. Jindal Saw Limited**  
**Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil**  
**& District – Bhilwara – 311802**  
**Rajasthan.**

Type of Unit : **Mines**  
Date of Sample Collection : **24/06/2013**  
Date of Sample Receipt : **25/06/2013**  
Date of Test : **25/06/2013 to 01/07/2013**  
Sample Collected By : **Mr. Puran Mal Yogi**  
Point of Collection : **Ghandi Sagar Village (Tubewell Water of Ganfhi Park)**  
Test Protocol : **APHA 21<sup>st</sup> Edition**

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.68	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	590	300	600
7.	Chlorides as Cl	mg/l	405.87	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	1514	500	2000
10.	Calcium as Ca	mg/l	152	75	200
11.	Magnesium as Mg	mg/l	51.03	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	0.05	5	-

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Ph.: 94602-22039, 94602-22049  
E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.36	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	590	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	145.11	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	25.65	45	-
22.	Fluoride as F	mg/l	1.03	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

**Note: -**

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Rajesh Maheshwari  
Technical Manager

Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/245)



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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/246  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Gundali Village (Tubewell Water of Sankar Lal Gurjar)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	15	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/246)



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Office : E-65, Chitranganj Marg,  
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Phone : 0141-2173533, 2771865  
Website : www.teamtesthouse.com

Lab.: G1-584, Sitapura Industrial Area  
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Ph.: 94602-22039, 94602-22049  
E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/NABL/246  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
& District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Gundali Village (Tubewell Water of Sankar Lal Gurjar)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.88	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	480	300	600
7.	Chlorides as Cl	mg/l	479.85	250	1000
8.	Iron as Fe	mg/l	0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	1620	500	2000
10.	Calcium as Ca	mg/l	84	75	200
11.	Magnesium as Mg	mg/l	65.61	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	0.04	5	-
17.	Boron as B	mg/l	0.32	1	5



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E-mail : teamtest@rediffmail.com

18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	480	200*	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	214.36	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	35.84	45	-
22.	Fluoride as F	mg/l	2.55	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

Note: -

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3. The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Rajesh*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/246)



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## TEST REPORT


Report No : W/247  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Kanoli Village (Hand pump Water of Govt. School)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	12	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/247)



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## TEST REPORT

Report No : W/247  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
& District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Kanoli Village (Hand pump Water of Govt. School)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	8.05	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	160	300	600
7.	Chlorides as Cl	mg/l	122	250	1000
8.	Iron as Fe	mg/l	0.03	0.3	1.0
9.	Total Dissolved Solids	mg/l	495	500	2000
10.	Calcium as Ca	mg/l	40	75	200
11.	Magnesium as Mg	mg/l	14.58	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	Less than 0.01	5	-



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E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.10	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	160	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	31.45	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	8.45	45	-
22.	Fluoride as F	mg/l	0.85	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W //247/)



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## TEST REPORT

Report No : W/248  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Mandal Village (Well Water of Neelkanth Mahadev Mandir)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS


S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	19	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent


Note:

BDL stands for Below Detection Level

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/248)



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## TEST REPORT

Report No : W/NABL/248  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
& District - Bhilwara - 311802  
Rajasthan.

Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Mandal Village (Well Water of Neelkanth Mahadev Mandir)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.85	6.5 - 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	780	300	600
7.	Chlorides as Cl	mg/l	479.85	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	1847	500	2000
10.	Calcium as Ca	mg/l	128	75	200
11.	Magnesium as Mg	mg/l	111.78	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	0.05	5	-

*Bhatia*



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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.32	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	410	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	213.37	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	42.45	45	-
22.	Fluoride as F	mg/l	1.12	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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Rajesh Maheshwari  
Technical Manager

Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/248)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : **W/NABL/249**  
Date : **02/07/2013**  
Issued to : **M/s. Jindal Saw Limited**  
**Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil**  
**& District – Bhilwara – 311802**  
**Rajasthan.**

Type of Unit : **Mines**  
Date of Sample Collection : **24/06/2013**  
Date of Sample Receipt : **25/06/2013**  
Date of Test : **25/06/2013 to 01/07/2013**  
Sample Collected By : **Mr. Puran Mal Yogi**  
Point of Collection : **Pur Village (Tubewell Water-Near Ganesh Mandir)**  
Test Protocol : **APHA 21<sup>st</sup> Edition**

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.22	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	720	300	600
7.	Chlorides as Cl	mg/l	529.83	250	1000
8.	Iron as Fe	mg/l	0.04	0.3	1.0
9.	Total Dissolved Solids	mg/l	1674	500	2000
10.	Calcium as Ca	mg/l	192	75	200
11.	Magnesium as Mg	mg/l	58.32	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	0.04	5	-

*Bathe*



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E-mail : teamtesthouse@gmail.com  
E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.32	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	450	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	154.56	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	42.22	45	-
22.	Fluoride as F	mg/l	0.90	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

**Note: -**

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/249)



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## TEST REPORT

Report No : W/250  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Suhana (PHED Supply Tubewell from Kankrolia Govt.)  
Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids, mg/l	mg/l	21	-	-
2.	Total Chromium as Cr. mg/l	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

### Note: -

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/250)



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## TEST REPORT

Report No : W/NABL/250  
 Date : 02/07/2013  
 Issued to : M/s. Jindal Saw Limited  
 Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
 & District – Bhilwara – 311802  
 Rajasthan.  
 Type of Unit : Mines  
 Date of Sample Collection : 24/06/2013  
 Date of Sample Receipt : 25/06/2013  
 Date of Test : 25/06/2013 to 01/07/2013  
 Sample Collected By : Mr. Puran Mal Yogi  
 Point of Collection : Suhana (PHED Supply Tube well from Kankrolia Govt.)  
 Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.41	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	400	300	600
7.	Chlorides as Cl	mg/l	70.0	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	570	500	2000
10.	Calcium as Ca	mg/l	96	75	200
11.	Magnesium as Mg	mg/l	38.88	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	Less than 0.01	5	-

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# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



T-1736, T-2276

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JDA

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E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.28	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	360	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	25.4	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	10.2	45	-
22.	Fluoride as F	mg/l	0.61	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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*Rajesh*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/250)



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### TEST REPORT

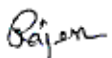
Report No : W/251  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Suras Village (open Well Water in Kothari River 1.5  
KM.From Village)  
Test Protocol : APHA 21<sup>st</sup> Edition


### RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	17	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

**Note: -**

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/251)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No : W/NABL/251  
 Date : 02/07/2013  
 Issued to : M/s. Jindal Saw Limited  
 Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil  
 & District – Bhilwara – 311802  
 Rajasthan.  
 Type of Unit : Mines  
 Date of Sample Collection : 24/06/2013  
 Date of Sample Receipt : 25/06/2013  
 Date of Test : 25/06/2013 to 01/07/2013  
 Sample Collected By : Mr. Puran Mal Yogi  
 Point of Collection : Suras Village (open Well Water in Kothari River 1.5  
 KM.From Village)  
 Test Protocol : APHA 21<sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.81	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	Less than 0.1	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	400	300	600
7.	Chlorides as Cl	mg/l	70	250	1000
8.	Iron as Fe	mg/l	0.03	0.3	1.0
9.	Total Dissolved Solids	mg/l	681	500	2000
10.	Calcium as Ca	mg/l	120	75	200
11.	Magnesium as Mg	mg/l	24.3	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	0.01	0.05	-
16.	Zinc as Zn	mg/l	Less than 0.01	5	-

*Bathu*



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E-mail : teamtest@rediffmail.com

17.	Boron as B	mg/l	0.32	1	5
18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	350	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	38.0	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	44.2	45	-
22.	Fluoride as F	mg/l	0.92	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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*Rajesh*

Rajesh Maheshwari  
Technical Manager

*Kavita*

Kavita Mathur  
Quality Manager  
(Report No.: - W /NABL/251)



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## TEST REPORT

Report No : W/252  
Date : 02/07/2013  
Issued to : M/s. Jindal Saw Limited  
Village Pur Near Tiranga Hills (Dhedwas mine),  
Tehsil & District – Bhilwara – 311802  
Rajasthan.  
Type of Unit : Mines  
Date of Sample Collection : 24/06/2013  
Date of Sample Receipt : 25/06/2013  
Date of Test : 25/06/2013 to 01/07/2013  
Sample Collected By : Mr. Puran Mal Yogi  
Point of Collection : Samodi Village (Tubewell Water-Govt. Supply)  
Test Protocol : APHA 21<sup>st</sup> Edition


## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	Total Suspended Solids,	mg/l	10	-	-
2.	Total Chromium as Cr.	mg/l	Less than 0.01	-	-
3.	Selenium as Se	mg/l	Less than 0.01	0.01	-
4.	Total Residual Chlorine	mg/l	Less than 0.1	0.2	-
5.	Total Coli form	MPN/100 ml	Absent	Absent	Absent

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Rajesh Maheshwari  
Technical Manager

  
Kavita Mathur  
Quality Manager  
(Report No.: - W/252)



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E-mail : teamtest@rediffmail.com

## TEST REPORT

Report No	: W/NABL/252
Date	: 02/07/2013
Issued to	: M/s. Jindal Saw Limited Village Pur Near Tiranga Hills (Dhedwas mine), Tehsil & District – Bhilwara – 311802 Rajasthan.
Type of Unit	: Mines
Date of Sample Collection	: 24/06/2013
Date of Sample Receipt	: 25/06/2013
Date of Test	: 25/06/2013 to 01/07/2013
Sample Collected By	: Mr. Puran Mal Yogi
Point of Collection	: Samodi Village (Tubewell Water-Govt. Supply)
Test Protocol	: APHA 21 <sup>st</sup> Edition

## RESULTS

S. No	Parameters	Unit	Observed Value	Standard Desirable limits as per IS:10500, 1991	Standard Permissible limits as per IS:10500, 1991
1.	pH	-	7.77	6.5 – 8.5	-
2.	Color	Hazen	Less than 5	5	25
3.	Odor	-	Unobjectionable	Unobjectionable	-
4.	Taste	-	Agreeable	Agreeable	-
5.	Turbidity	NTU	0.22	5	10
6.	Total Hardness as CaCO <sub>3</sub>	mg/l	280	300	600
7.	Chlorides as Cl	mg/l	69	250	1000
8.	Iron as Fe	mg/l	Less than 0.01	0.3	1.0
9.	Total Dissolved Solids	mg/l	378	500	2000
10.	Calcium as Ca	mg/l	80	75	200
11.	Magnesium as Mg	mg/l	19.44	30	100
12.	Copper as Cu	mg/l	Less than 0.01	0.05	1.5
13.	Manganese as Mn	mg/l	Less than 0.01	0.1	0.3
14.	Arsenic as As	mg/l	Less than 0.01	0.05	-
15.	Lead as Pb mg/l	mg/l	Less than 0.01	0.05	-
16.	Zinc as Zn	mg/l	Less than 0.01	5	-
17.	Boron as B	mg/l	0.28	1	5

*Asst. Dir.*



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E-mail : teamtest@rediffmail.com

18.	Total Alkalinity as CaCO <sub>3</sub> mg/l	mg/l	200	200	600
19.	Aluminum as Al	mg/l	Less than 0.01	0.03	0.2
20.	Sulphate as SO <sub>4</sub>	mg/l	20.18	200	400
21.	Nitrate as NO <sub>3</sub>	mg/l	14.65	45	-
22.	Fluoride as F	mg/l	0.81	1.0	1.5
23.	Cadmium as Cd	mg/l	Less than 0.01	0.01	-

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*Rajan*  
Rajesh Maheshwari  
Technical Manager

*Kavita*  
Kavita Mathur  
Quality Manager  
(Report No.: - W/NABL/252)