



**REGIONAL DIRECTORATE (CENTRAL)
CENTRAL POLLUTION CONTROL BOARD
BHOPAL**

STP at Village Kewara, Bhilwara (Rajasthan)

1. M/s Jindal Saw Ltd is having 1.2 million TPA iron ore beneficiation and palletization plant at Bhilwara in Rajasthan. **To meet the water requirement of the plant, the industry has installed 10 MLD STP in Bhilwara town and the treated wastewater from the STP is being taken to the industry through 23KM pipeline and using 100% of treated wastewater in iron ore beneficiation & palletization plants, dust suppression & horticulture purpose.**
2. It is a Sequential Batch Reactor (SBR) technology based 10MLD (4.5+5.5MLD) capacity STP at village Kewara, Bhilwara was constructed & commissioned in 2012 by M/s Jindal Saw Ltd. The O&M of the plant is being done by M/s UEM India Pvt. Limited, Noida.

Detailed information of STP Bhilwara

1.	Name / Location of STP	:	(5.5+4.5) 10 MLD STP Unit, Khasra No. 338, Village Kewara Tehsil & Distt- Bhilwara Rajasthan - 311001
	Contact person with mobile no.	:	Sh. Shekhawat, STP Manager Mobile no. 09928973111
2.	Process of Sewage Treatment		
3.	(i) ASP – Activated Sludge process (ii) TP – Trickling Filter (iii) AL – Aerated Lagoon (iv) UASB – Up flow anaerobic sludge blanket (v) OP – Oxidation Pond / waste stabilization ponds (vi) EA – Extended Aeration (vii) SBR – Sequential Batch Reactor (viii) MBR – Membrane Bio Reactor (ix) MBBR – Moving Bed Bio Reactor		SBR-Sequential Batch Reactor
4.	Flow sheet of STP (to be attached)	:	----
5.	Designed Capacity / day	:	(5.5 + 4.5) 10 MLD
6.	Actual Treatment	:	5 MLD to 7.5 MLD
7.	Primary Settling Tank	:	Not Applicable
8.	Aeration Tank	:	SBR Technology

9.	(i) Aeration Tank Volume M ³ (ii) Retention period (iii) Mixed Liquor MLSS & MLVSS mg / L (iv) Aeration Capacity KW or HP (v) Ratted Aeration Capacity Kg / KW hr	5760 M3 (04 Nos.) 13.5 Hours 3600 mg/l 200 HP 10.61 Kg/Kw/Hr.
10.	Secondary Settling Tank	: Not Applicable
11.	A. Activated Sludge Process	:
	(i) Waste Sludge generation (Flow rate m ³ / hr multiplied by hr / day)	2-5 M3/Hr as per weather Condition
	B. UASB	: Not Applicable
12.	Sludge Thickener	: Not Applicable
13.	Sludge Digesters	Not Applicable
14.	Biogas produced, if any and its composition	Not Applicable
15.	Operational status of gas utilization	Not Applicable
16.	Power generation , if any	Not Applicable
17.	Point of treated sewage disposal (river / lake / irrigation / land and disposal / pisciculture / aquaculture / any other)	Not Applicable
18.	Bypass arrangement of STPS, if any	No
19.	Method of Sludge disposal and status (Satisfactory / Unsatisfactory)	Satisfactory
20.	Operation and maintenance of Sewage Treatment Plant (Satisfactory / Unsatisfactory)	Satisfactory
21.	Agency for operation and maintenance of Sewage Treatment Plant	M/s UEM India Pvt. Ltd.
22.	Operation through Sub Contractor , if any	Yes, M/s UEM India Pvt. Ltd.
23.	Power requirement	Yes
24.	Status of power availability for uninterrupted and continuous running of STP	Yes
25.	Standby arrangement for power, if any	Yes
26.	Status of skilled / Trained Manpower	Yes
27.	Annual expenditure on O & M & STP	Rs. 37890720 + CSR BMC
28.	Consent from State Pollution Control Board / Pollution Control Committee or Not	Yes
29.	Volume of industrial waste being mixed in sewage , if any	No
30.	Status of maintenance of Log Books	Yes
31.	Status of Laboratory facility	Yes

STP at Village Kewara, Bhilwara(Rajasthan)



Raw Water Inlet, Fine Screen



Grit removal system



Filtration, aeration, and Nitrification and DO monitoring system

STP at Village Kewara, Bhilwara(Rajasthan)



Processed Water Decanting



Hypo dosing system



Treated water Collection Tank



Sludge Sump and Centrifuge Unit



Finally treated water stored for reuse in Jindal Saw Ltd.