

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		SBR-Sequential Batch Reactor
	(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		
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		5760 M3 (04 Nos.)
).	(ii) Retention period		13.5 Hours
	(iii) Mixed Liquor MLSS & MLVSS		3600 mg/l
	mg/L		3000 mg/1
	(iv) Aeration Capacity KW or HP		200 HP
	(v) Ratted Aeration Capacity Kg/		10.61 Kg/Kw/Hr.
	KW hr		6
10.	Secondary Settling Tank	:	Not Applicable
11.	A. Activated Sludge Process	:	
	(i) Waste Sludge generation (Flow rate		2-5 M3/Hr as per weather
	m ³ / hr multiplied by hr / day)		Condition
	B. UASB	:	Not Applicable
12.	Sludge Thickener	:	Not Applicable
13.	Sludge Digesters		Not Applicable
14.	Biogas produced, if any and its		Not Applicable
	composition		
15.	Operational status of gas utilization		Not Applicable
16.	Power generation, if any		Not Applicable
17.	Point of treated sewage disposal (river /		Not Applicable
	lake / irrigation / land and disposal /		
	pisciculture / aquaculture / any other)		
18.	Bypass arrangement of STPS, if any		No
19.	Method of Sludge disposal and status		Satisfactory
	(Satisfactory / Unsatisfactory)		
20.	Operation and maintenance of Sewage		Satisfactory
	Treatment Plant (Satisfactory /		
24	Unsatisfactory)		M/ HEMI I' D / I/I
21.	Agency for operation and maintenance of		M/s UEM India Pvt. Ltd.
22	Sewage Treatment Plant		Yes, M/s UEM India Pvt. Ltd.
22.	Operation through Sub Contractor, if any		
23. 24.	Power requirement Status of power availability for	-	Yes Yes
44.	uninterrupted and continuous running of		105
	STP		
25.	Standby arrangement for power, if any	1	Yes
26.	Status of skilled / Trained Manpower	1	Yes
27.	Annual expenditure on O & M & STP		Rs. 37890720 + CSR BMC
28.	Consent from State Pollution Control		Yes
0.	Board / Pollution Control Committee or		1
	Not		
29.	Volume of industrial waste being mixed	1	No
	in sewage, if any		
30.	Status of maintenance of Log Books		Yes
31.	Status of Laboratory facility		Yes
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STP at Village Kewara, Bhilwara(Rajasthan)



Raw Water Inlet, Fine Screen



Grit removal system

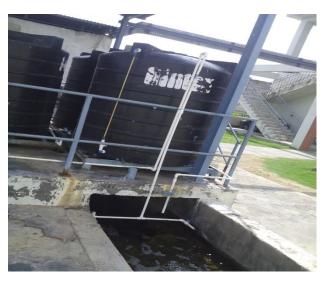


Filtration, aeration, and Nitrification and DO monitoring system

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.