

M/s Bhumi Associates

Plot Number E 15/34 Near Patil Transport MIDC Chikalthana Aurangabad.

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Hazard Identification, Risk Assessment And Risk Control Register (HIRA)

DEPARTMENT: Effluent/Sewage Treatment Plant

Activity	Sub-Activities	R/ NR	Hazard	Harm	Legal requirement & Controls required	Present control	Is Control Adequate
1) Receipt of Material	Receiving of chemicals in liquid or powdered form	R	1) lifting the heavy weight	Body pain strain	Not to lift weight more than limit for Adult male- 55 kg.	1. Engg Control Trolleys provided 2. Admn. Control: 3. PPE: Safety Shoes 3. PPE: Safety Shoes	Yes
		R	2) Handling of Corrosive Chemicals	Ill Health	Brief description of the measures to be taken to minimize the risk & information in local language	1. Engg Control 2. Admn Control OCP, Health check up 3 PPE Hand gloves, mask, apron 4. MSDS	Yes
2) Neutralisation	Receiving of effluent from plant	R	leakage of tank	Ill Health	Brief description of the measures to be taken to minimize the risk & information in local language	1. engg Control FRP coated tanks provided Admn. Control P PPE: Safety Shoes	Yes
		R	Handling of different pH waste water	Ill Health	Brief description of the measures to be taken to minimize the risk & information in local language	Engg Control Pumps and pipes provided Admn. Control OCP PPE: Hand gloves, mask, apron, Gum shoe. 4 MSDS	Yes
3) Flocculation	Addition of flocculants and	NR	1) Leakage	Ill Health	Brief description of the	1. Engg Control:	Yes

& sludge handling	sludge removal				measures to be taken to minimize the risk & information in local language	Dosing pumps provided Admn. Control: OCP PPE: Mask, hand gloves, apron	
		NR	2) Gravity (Fall Slip Trip of person)	Injury	Fencing of machine, Kept free from obstructions & substances & to ensure safety, steps, stairs, passages and gangways be provided with substantial	Engg Control Railing/Ladder Platform provided, pumps are with guards 2. Admn. Control: Internal audit PPE: Safety shoes	Yes
		R	3) Handling of hazardous sludge, waste, Effluent	Ill Health	Brief description of the measures to be taken to minimize the risk & information in local language	1. Engg Control :Nill 2. Admn. Control: OCP 3. PPE: Mask, hand gloves. apron, gum shoe MSDS	Yes
8) Filtration	It separates fine sludge. Effluent pumped and passed through packed filter	R	Handling of Valve	Injury	Brief decription of the measures to be taken to minimize the nsk & Information in local language	1. Engg Control :Nill Admn. Control: On job training 3. PPE Hand gloves	Yes
		R	Repair maintenance. Cl eaning of pump, valves	Injury	Brief decription of the measures to be taken to minimize the risk & information in local language	Engg Control: Nill 2. Admn Control: On job training 2. Admn Control: On job training	Yes





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