



ODOUR CONTROL

1.CHEMICAL DOSING
SYSTEM

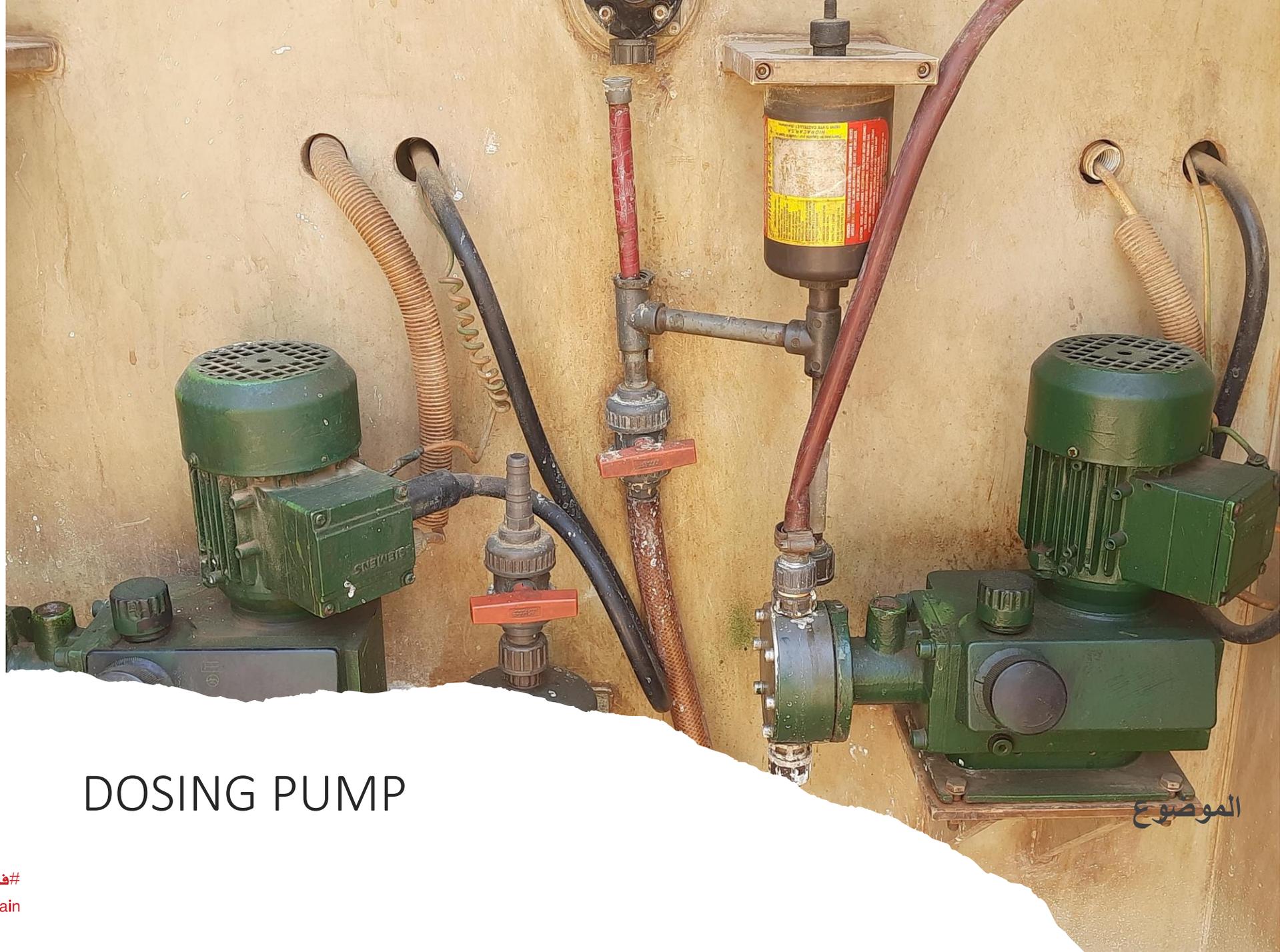
2.ACTIVATED
CARBON UNIT

3.PHOTOIONIZATION
UNIT

4.IONISED AIR
SYSTEM



وزارة الأشغال
Ministry of Works



DOSING PUMP

الموضوع

سبتمبر ٢٠٢٤



#فريق_البحرين
#TeamBahrain



CHEMICAL DOSING TANK

الموضوع

سبتمبر ٢٠٢٤



وزارة الأشغال
Ministry of Works

ACTIVATED CARBON UNIT

الموضوع

سبتمبر ٢٠٢٤



#فريق_البحرين
#TeamBahrain



الموضوع سبتمبر ٢٠٢٤

ODOUR CONTROL

- SANITARY ENGINEERING
OPERATION & MAINTENANCE
DIRECTORATE (SEOMD)
- TREATED EFFLUENT QUALITY
CONTROL GROUP (TEQCG)

الموضوع

سبتمبر ٢٠٢٤



FERROUS SULPHATE HEPTAHYDRATE $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

- CHEMICAL NAME :
FERROUS SULPHATE HEPTA HYDRATE
- MOLECULAR FORMULA : $\text{Fe} (\text{SO}_4) \cdot 7\text{H}_2\text{O}$
- CONCENTRATION : 30%
SOLUTION
- PACKING :
210Liters/Drum
- IRON CONTENT : 20%
- SULPHATE CONTENT : 35%



وزارة الأشغال
Ministry of Works

PHOTO IONIZATION UNIT



الموضوع

سبتمبر ٢٠٢٤



#فريق_البحرين
#TeamBahrain

Reference:	SEOMD-TEQCG-F-4
Rev:	001
Date of Impl:	May-23

MINISTRY OF WORKS
SANIRARY ENGINEERING OPERATION OF MAINTENANCE DIRECTORATE
TREATED EFFLUENT QUALITY CONTROL GROUP
CHECK LIST- NEUTROLOX SYSTEM



DATE: _____		SCHEDULED STATION'S:-									
STATION NAME: _____								TYPE OF UNIT:- NEUTROLOX SYSTEM			
NEUTROLOX MOTOR	MOTOR:-1					MOTOR:-2					
	TYPE:-					TYPE:-					
	MODEL:-					MODEL:-					
	MAKE:-					MAKE:-					
1. NOISE	CHECK	Remarks:-				CHECK	Remarks:-				
2. MOTOR LUBRICATION	CHECK	Remarks:-				CHECK	Remarks:-				
3. FITTINGS	CHECK	Remarks:-				CHECK	Remarks:-				
4. MOTOR CONDITION	CHECK	Remarks:-				CHECK	Remarks:-				
5. INSULATION VALUE	CHECK	Remarks:-				CHECK	Remarks:-				
6. MOTOR VIBRATION	CHECK	Remarks:-				CHECK	Remarks:-				
1. COOLING AC	CHECK	Remarks:-									
2. FILTER	CHECK	Remarks:-									
3. H2S READING IN PPM	CHECK	TIME	INLET	DISCHARGE	AMBIENT	REMARKS					
CONTROL PANEL:-											
1. FAULT INDICATION	CHECK	Remarks:-									
5. ELECTRICAL COMPONENTS	CHECK	Remarks:-									
6. PROTECTION RELAY'S	CHECK	Remarks:-									
3. AMMETER	CHECK	Remarks:-									
4. VOLTMETER	CHECK	Remarks:-									
5. HOOTER	CHECK	Remarks:-									
7. PANEL ENCLOSURE	CHECK	Remarks:-									
8. MOTOR CHANGE OVER	CHECK	Remarks:-									
REMARKS:-											
CONTRACTOR:-TRANS GLOBAL CONTRACTING						SEOMD REPRESENTATIVE:-					
NAME:-.....						NAME:-.....					
SIGNATURE:-.....						SIGNATURE:-.....					
DATE:-.....						DATE:-.....					

الموضوع

سبتمبر ٢٠٢٤

Reference:	SEOMD-TEQCG-F-3
Rev:	001
Date of impl:	May-23

**MINISTRY OF WORKS
SANITARY ENGINEERING OPERATION OF MAINTENANCE DIRECTORATE
TREATED EFFLUENT QUALITY CONTROL GROUP
CHECK LIST- IONIC AIR SYSTEM**



DATE: _____		SCHEDULED STATION'S:-													
STATION NAME: _____				TYPE OF UNIT:- IONIC AIR SYSTEM											
IONIZATION FAN		FAN:-1						FAN:-2							
		TYPE:-						TYPE:-							
1. NOISE		CHECK		Remarks:-				CHECK		Remarks:-					
		CHECK		Remarks:-				CHECK		Remarks:-					
2. MOTOR LUBRICATION		CHECK		Remarks:-				CHECK		Remarks:-					
		CHECK		Remarks:-				CHECK		Remarks:-					
3. FITTINGS		CHECK		Remarks:-				CHECK		Remarks:-					
		CHECK		Remarks:-				CHECK		Remarks:-					
4. MOTOR CONDITION		CHECK		Remarks:-				CHECK		Remarks:-					
		CHECK		Remarks:-				CHECK		Remarks:-					
5. INSULATION VALUE		CHECK		Remarks:-				CHECK		Remarks:-					
		CHECK		Remarks:-				CHECK		Remarks:-					
6. MOTOR VIBRATION		CHECK		Remarks:-				CHECK		Remarks:-					
		CHECK		Remarks:-				CHECK		Remarks:-					
1. IONIZATION TUBE		CHECK		Remarks:-				CHECK		Remarks:-					
2. H2S READING IN PPM		CHECK		TIME	INLET	DISCHARGE	AMBIENT	REMARKS							
CONTROL PANEL:-															
1. FAULT INDICATION		CHECK		Remarks:-											
5. ELECTRICAL COMPONENTS		CHECK		Remarks:-											
6. PROTECTION RELAY'S		CHECK		Remarks:-											
3. AMMETER		CHECK		Remarks:-											
4. VOLTMETER		CHECK		Remarks:-											
5. HOOTER		CHECK		Remarks:-											
7. PANEL ENCLOSURE		CHECK		Remarks:-											
8. MOTOR CHANGE OVER		CHECK		Remarks:-											
REMARKS:-.....															
CONTRACTOR:-TRANS GLOBAL CONTRACTING NAME:-.....						SEOMD REPRESENTATIVE:- NAME:-.....									
SIGNATURE:-.....						SIGNATURE:-.....									
DATE:-.....						DATE:-.....									

الموضوع

سبتمبر ٢٠٢٤

Reference:	SEOMD-TEQCG-F-2
Rev:	001
Date of Impl:	May-23

MINISTRY OF WORKS
SANIRARY ENGINEERING OPERATION OF MAINTENANCE DIRECTORATE
TREATED EFFLUENT QUALITY CONTROL GROUP
CHECK LIST - ACIVATED CARBON



DATE: _____	SCHEDULED STATION'S:-									
STATION NAME _____					TYPE OF UNIT: Activated carbon unit					
ACIVATED CARBON TANK:-										
1.TANK CONDITION	CHECK	Remarks:-								
2. PIPE FITTINGS	CHECK	Remarks:-								
3. CARBON FILTER	CHECK	Remarks:-								
4.H2S READING IN PPM	CHECK	TIME	INLET	DISCHARGE	AMBIENT	REMARKS				
BLOWER PUMP	PUMP:-1				PUMP:-2					
	TYPE:-				TYPE:-					
	MODEL:-				MODEL:-					
	MAKE:-				MAKE:-					
1. NOISE	CHECK	Remarks:-			CHECK	Remarks:-				
2. MOTOR LUBRICATION	CHECK	Remarks:-			CHECK	Remarks:-				
3. FITTINGS	CHECK	Remarks:-			CHECK	Remarks:-				
4. MOTOR CONDITION	CHECK	Remarks:-			CHECK	Remarks:-				
5. INSULATION VALUE	CHECK	Remarks:-			CHECK	Remarks:-				
6. MOTOR VIBRATION	CHECK	Remarks:-			CHECK	Remarks:-				
7. TEMPERATURE	CHECK	Remarks:-			CHECK	Remarks:-				
CONTROL PANEL:-										
1. FAULT INDICATION	CHECK	Remarks:-								
5. ELECTRICAL COMPONENTS	CHECK	Remarks:-								
6.PROTECTION RELAY'S	CHECK	Remarks:-								
3. AMMETER	CHECK	Remarks:-								
4. VOLTMETER	CHECK	Remarks:-								
5. HOOTER	CHECK	Remarks:-								
7. PANEL ENCLOSURE	CHECK	Remarks:-								
8. MOTOR CHANGE OVER	CHECK	Remarks:-								
REMARKS:-										
.....										
CONTRACTOR:-TRANS GLOBAL CONTRACTING					SEOMD REPRESENTATIVE:-					
NAME:-.....					NAME:-.....					
SIGNATURE:-.....					SIGNATURE:-.....					
DATE:-.....					DATE:-.....					

الموضوع

سبتمبر ٢٠٢٤

Reference:	SEOMD-TEQCG-F-1
Rev:	001
Date of Impl:	May-23

MINISTRY OF WORKS
SANIRARY ENGINEERING OPERATION OF MAINTENANCE DIRECTORATE
TREATED EFFLUENT QUALITY CONTROL GROUP
CHECK LIST- CHEMICAL DOSING SYSTEM



DATE: _____		SCHEDULED STATION'S:-									
STATION NAME: _____				TYPE OF UNIT:-CHEMICAL DOSING SYSTEM							
CHEMICAL TANK:-											
TANK-1						TANK-2					
1. CHEMICAL TANK CONDITION	CHECK	Remarks:-				CHECK	Remarks:-				
2. CHEMICAL LEVEL	CHECK %	Remarks:-				CHECK %	Remarks:-				
3. CLOG CONDITION	CHECK	Remarks:-				CHECK	Remarks:-				
4. LEVEL SENSOR	CHECK	Remarks:-				CHECK	Remarks:-				
5. WATER TANK CONDITION	CHECK	Remarks:-				CHECK	Remarks:-				
1. H2S READING IN PPM	CHECK	TIME	INLET	DISCHARGE	AMBIENT	REMARKS					
CHEMICAL DOSING PUMP											
PUMP:-1						PUMP:-2					
TYPE:-						TYPE:-					
MODEL:-						MODEL:-					
MAKE:-						MAKE:-					
1. NOISE	CHECK	Remarks:-				CHECK	Remarks:-				
2. PUMP OIL	CHECK	Remarks:-				CHECK	Remarks:-				
3. LEAKAGE	CHECK	Remarks:-				CHECK	Remarks:-				
4. PIPE FITTINGS	CHECK	Remarks:-				CHECK	Remarks:-				
5. INLET	CHECK	Remarks:-				CHECK	Remarks:-				
6. DISCHARGE	CHECK	Remarks:-				CHECK	Remarks:-				
7. SPEED	CHECK	Remarks:-				CHECK	Remarks:-				
8. STROKE	CHECK	Remarks:-				CHECK	Remarks:-				
CONTROL PANEL:-											
1. FAULT INDICATION	CHECK	Remarks:-									
5. ELECTRICAL COMPONENTS	CHECK	Remarks:-									
6. PROTECTION RELAY'S	CHECK	Remarks:-									
3. AMMETER	CHECK	Remarks:-									
4. VOLTMETER	CHECK	Remarks:-									
5. HOOTER	CHECK	Remarks:-									
7. PANEL ENCLOSURE	CHECK	Remarks:-									
8. PUMP CHANGE OVER	CHECK	Remarks:-									
REMARKS:-.....											
CONTRACTOR:-TRANS GLOBAL CONTRACTING						SEOMD REPRESENTATIVE:-					
NAME:.....						NAME:.....					
SIGNATURE:.....						SIGNATURE:.....					
DATE:.....						DATE:.....					

الموضوع

سبتمبر ٢٠٢٤

SPECIFICATION OF ACTIVATED CARBON

NATURE	: WATER REGENERABLE ACTIVATED CARBON
TYPE	: WRC-P5, CATALYTIC PELLETS
BULK DENSITY (Vibrated)	: 600kg/m ³
PARTICLE SIZE	: 5 mm approx
WATER CONTENT	: max 3% as packed
IODINE NUMBER	: 400 mg/gr
ASH CONTENT	: max 15%
HARDNESS	: > 95%
H ₂ S ADSORPTION CAPACITY	: 20% w/w

الموضوع

سبتمبر ٢٠٢٤