

ETP Functionality Assessment Form

Date of assessment	11-Mar-2019	INCOMPLETE: Please fill all comments/details	Grading of ETP	Green
Name of assessor	Muradur Rashedin			

Factory & ETP Information

PU SPUR ID		Last 6 month production records	Piece Printing	Other	Other		Total production water consumption per month M3
Name of unit	Fair Design Print ltd	Sep:18	765117				456
Unit responsible	Mr. Syed; Mrs. Tahmina	Oct	1144768				517
Address		Nov	803759				395
ETP Capacity (M3/hour)	1	Dec	881630				194
Operating hours	10	Jan'19	1534067				482
Days per week	7	Feb'19	1372430				288
% of Recycling (in process)	50%						
Treatment scheme/flow	Mechanical Screen- EQ tank- Coagulation-Flocculation-Clarifier-1lamella 2- Filter Feed tank-Multi Grade sand filter-						
Design service provider name	Dynamic Engineering Ltd						

Document list

Document	Acceptable - Yes/No	Comments/Finding
1. Production facility layout	Yes	Appropriate according to current set-up.
2. Production record	Yes	Last 06 months production data have been seen and verified.
3. Drainage plan	Yes	Drainage plan has been seen, lines are connected to drain
4. Permit on ETP operation	Yes	License applied for renewal on 12th June 2019
5. Permit on waste water discharge	Yes	License applied for renewal on 12th June 2019
6. Water consumption meter records & Invoices	Yes	All water inlet data has been seen and verified onsite.
7. ETP Piping layout	Yes	It's now in line with design
8. ETP operation manual/procedure	Yes	Stone removal in pretreatment process in future
9. ETP proposal/design document including hydraulic diagram	Yes	Need to modify hydraulic diagram
10. Waste water test report	Yes	In-house lab data seen, and verified.

Acceptable - Yes/No	Comments	
1 Design requirement		
Yes		
1.1 The scope of wastewater incoming pollution load & discharge quality have been considered in design	Yes	Mentioned in operational manual and included.
1.2 The actual flow rate on-site is similar to the designed flow rate	Yes	Yes we have seen practically, flow rate seems fine and inline with existing ETP capacity
1.3 ETP has excess capacity to meet future planned or unplanned production expansion	Yes	current flow is well below the etp capacity
1.4 The treatment scheme/flow in each process is in-line with acceptable design	Yes	system has all backups with sufficient capacity.
2 Process control		
Yes		
2.1 Facility identified all key process parameters for all treatment levels	Yes	Yes they have identified, all key parameters on all treatments levels,
2.2 ETP is operating at a desirable operating range	Yes	yes, all the parameters are running properly.
2.3 Adequate monitoring devices are installed onsite	Yes	jar test equipment seen
2.4 Operating log sheet is maintained to record key process parameters for all operating hours,	Yes	Yes have seen all the records/data in form of log sheet.
2.5 ETP emergency plan available for review	Yes	Yes it was available in operational manual, and well aligned with system requirements.

2.6 ETP back up equipment is available and found in accessible areas	Yes	Back-up equipment is readily available and accessible, for e.g. blowers etc.
2.7 Sludge is handled, stored and disposed as per the legal regulation	Yes	action plans are accordingly aligned to handle sludge in future.
3 Competence		
3.1 ETP operator(s) understand the ETP process/ discharge standard /basics required for job level as per the operation manual	Yes	They are running ETP as per routine, working mentioned in operational manual.
3.2 ETP operator(s) have sufficient operating instructions to run the ETP	Yes	They are running ETP as per routine, working mentioned in operational manual.
3.3 ETP operator(s) have received adequate training prior to the job with refresher training including health & safety and personal protective equipment	Yes	Yes, we have seen training data and records accordingly.
3.4 ETP operator(s) have knowledge on sampling, test routines including test method and calibration of devices	Yes	They are running ETP as per routine, working/requirement mentioned in operational manual.
3.5 ETP operator(s) know how to act with the emergency response plan	Yes	Yes, they have information regarding emergency plan, and are aware through training.
3.6 ETP operator(s) are able to monitor the key process control parameters and troubleshoot minor problems	Yes	Yes, they have information regarding trouble shooting, and are aware through training.

4 Images

JAR TEST



EQUALIZATION



CLARIFIER



CHEMICAL DOSING SYSTEM

