

DIVISIONAL OFFICE
Karnataka State Pollution Control Board
Sy. No. 597P, Ward No. 25, 4th Main,
Dr. Vishnuvardhana Park, Kuvempunagara
BELLARY- 583 104

No. KS PCB/RSEO-Bellary/IND/IR//2016-17/114

DATE: 30/07/2016

**Inspection Report of Sri. K.M.Nagaraj, RSEO-Bellary , KSPCB, Bellary
and Sri. M. Lakshman, RSEO-Bangalore East**

Officer accompanied: Sri.Vasudeva.S.K., EO, RO-Hoskote

1.	Name and Address of the Industry inspected	M/s. SF Dyes Private Limited, Plot No. 21-P/31, KIADB Industrial Area, Chokkahalli Village, Hoskote Taluk, Bangalore Rural District.
2.	Category and classification	Large Red
3.	Person Contacted	Sri. Suresh – Plant Manager
4.	Date of inspection	08-07-2016
5.	Consent status	WPC & APC: Valid up to 30-06-2016 and now have applied for renewal of consent for the further period of 5 years from 01-07-2016 to 30-06-2021 as informed by RO
6.	HWM status	The authorization under HMW, Rules valid upto 30-06-2020

M/s. SF Dyes Private Limited is a Large Scale Red category industry was issued consent by the Board office for the period upto 30-06-2016 for the manufacture of following products under Water and Air Acts:

Sl. No.	Products & By-products	Maximum Capacity
1	S Blue R	2.60 TPM
2	S Green	0.20 TPM
3	LS Blue-1	0.60 TPM
4	LS Red Brown	1.15 TPM
5	S Bordeaux	2.00 TPM
6	LS Blue – 20	0.60 TPM
7	LS Green	0.90 TPM
8	LS Brown	2.50 TPM
9	Blending of Powder Dyes	225 TPM

o/e

The industry was inspected on 08-07-2016 as per the BO letter No.1778 dated 02-07-2016 in random inspection of the industry based on computerized risk assessment and following observations were made:

- The Industry was operating at the time of inspection and engaged in manufacture of above mentioned water soluble dyes.
- The raw materials used are sulphur, sodium sulphide, caustic soda, hydrochloric acid, sulphuric acid etc.
- The activity involved is mainly blending of different types of raw materials with required proportions as per the customer requirement. It was informed that some of the raw materials will be imported.
- The factory authorities informed that they are manufacturing only water soluble dyes used in the textile industries and not manufacturing banned dyes.
- The source of water is bore well and also from through outside tankers. The total water requirement for both domestic and industrial purpose is of about 59 KLD.
- The industry has employed about 45 workers and the domestic effluent is disposed through septic tank and soak pit.
- The industry generates trade effluents from the process, reactor washing, floor washing, softener rejects, cooling tower blow down and filter press washings is of about 20 KLD out of which 8.9 KLD of trade effluent is generated from the process and washings.
- The trade effluents are being collected in 2 nos of collection tanks each of size of 10 KL capacity and pumped to the existing 6 numbers of series of solar evaporation ponds for further treatment. The overflow of effluents from the SEP is being passed through filter press to remove solids followed by equalization and then the effluent is being treated in the forced evaporation system of capacity 1000 lts/hr (Triple effect) with ATFD. The condensate from the MEE is being collected and used as a boiler feed. The concentrate from MEE is again is passed through ATFD to collect slurry/salt. The salt is being collected in polythene bags and reused in the process. The condensate from ATFD reported to be collected separately and to be reused in the process.
- The industry is having the following air pollution sources with control equipments:

SI No.	Air Pollution Sources	Chimney and control equipment stipulated	Chimney and control equipment provided
1	250 KVA DG Set	5 Mtrs chimney ARL with acoustics	5 Mtrs chimney ARL with acoustic enclosures
2	Process Emissions (Reactors -10 nos.)	Provided common chimney of height 20 mtrs AGL with common scrubber	Provided common chimney of height 20 mtrs AGL with common scrubber

3	Boiler of 4 TPH(briquette fuel)	30 meters chimney AGL with dust collector	30 meters chimney AGL with dust collector
---	---------------------------------	---	---

- The industry is having valid authorization under hazardous waste (Management, Handling and Tran boundary Movement) Rules for the period upto 30-06-2020. The industry generates hazardous wastes in the form of used oil/waste oil of quantity 0.2 KL/annum, Residue from Forced Evaporation pond of 2.7 MT/annum and chemical containers of 50 Nos/annum for which the industry is having valid authorization. This needs amendments with respect to disposal of salts / residue ATFD and solar ponds.


Other observations made during inspection are as below:

- The industry has stored huge number of chemical containers, raw materials containers and finished goods in an open area in many places of the industry without any shelter and concrete flooring. There is no shed for the storage of plastic containers containing raw materials / finished goods. The industry is required to construct adequate capacity storage yard above the ground level with proper shelter and impervious flooring and dykes.
- Chemical containers not labeled and it is very difficult to ascertain whether it is a raw material / finished products / expired products or rejected products. Not maintained any log books / register regarding the same.
- The industry is still operating the solar evaporating ponds (SEP) which are being used as treatments units earlier before installation of MEE. The same has to be verified for percolation / seepage as these ponds are older and to be abandoned since MEE has been installed recently. And there is no consent for their utilization. The industry has to give a firm commitment regarding removal of these SEP immediately. The present capacity MEE and ATFD appears to be on lower side. Both were not working due to maintenance.
- The industry has provided raw effluent collection tanks of 2 nos. each of size 10 KL below the ground level. This needs to be dismantled and has to be constructed above ground level immediately.
- Spillage of effluents near the SEP was noticed and housekeeping near the ponds not satisfactory.
- The flooring near the MEE and ATFD has been completely damaged which needs immediate impervious flooring with acid proof tiles.
- The industry is in the process of installing new ETP for the treatment of condensate water from ATFD about 1 KL / day without prior approval of the Board. They have already installed machineries of ETP and taken up trial treatment. The spillage of effluents near the new ETP construction area was noticed. The firm should seek approval for new ETP.

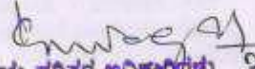
- The firm is having about 4 acres of land and good greenery is maintained. The firm shall adopt rain water harvesting facility, to recharge ground water and for other uses.
- The firm has installed flow meter in the storm water drain and camera near by. This location is not logic. The board office may address accordingly.

ACTION TO BE TAKEN

- 1) The waste water collection and treatment facility not satisfactory in view of above observations. Show cause notice may be issued for said violations.
- 2) The firm shall give action plan to rectify the defects noticed during inspection with a time frame.


Regional Senior Environmental Officer
Bellary

- Copy to 1) RSEO Bangalore East KSPCB Nisarga Bhavan, Shiva Nagar Bangalore for information and needful.
2) RO Hoskote KSPCB Nisarga Bhavan, Shiva Nagar, Bangalore for information and necessary action.


ಕಿರಿಯ ಪರಿಸರ ಅಧಿಕಾರಿಗಳು 09/7
ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
ಬೆಳ್ಳಾರಿ.