

MAHARASHTRA POLLUTION CONTROL BOARD

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No. MPCB/AS(T)/TB/B- 2862

Date 21/07/2014.

CIRCULAR

Sub:- Verification protocol for verifying compliance of conditions imposed to the sugar industries.

- Ref:- 1. CAC meeting decision on 17.06.2014
2. Orientation meeting dated 25.06.2014

You are all aware that the Board has issued Directions to the sugar industries for complying certain conditions and imposed BG to secure the compliance. An orientation meeting with the concerned SROs was organized on 25/06/2014 and verification protocol for verifying compliance of various conditions imposed to the sugar industries was discussed in order to have proper and uniform reporting of compliances.

Accordingly the verification protocol for verifying compliance of conditions imposed to the sugar industries has been finalized and enclosed herewith.

All concern Regional Officers & Sub-Regional Officers are hereby directed to scrupulously follow the verification protocol for reporting compliances of sugar industries henceforth.


(Rajeev Kumar Mital, IAS)
Member Secretary

To,
RO - Mumbai/Navi Mumbai/Raigad/Thane/Kalyan/Pune/Kolhapur/Amravati/
Aurangabad/ Nagpur/Nashik./Chandrapur.
SRO - Mumbai-I/II/III/IV/Navi Mumbai-I/II/III(Taloja)/Raigad-I/II/III/Mahad/Thane-I/II/
Tarapur-I/II/Kalyan-I/II/III/Bhiwandi/Pune-I/II/Pimpri Chinchwad/ Satara/Solapur/
Kolhapur/Ratnagiri/Chiplun/Sangli/Amravati-I/II/Akola/Aurangabad-I/Jalna
Latur/Nanded/Parbhani/ Nagpur-I/II/Bhandara/Chandrapur/ Nashik/Jalgaon-I/II/
Ahmednagar/Pams

Copy to :- JD(WPC)/AST/JD APC/RO(HQ)/TA/CAC cell

Verification Protocol for checking compliance of the conditions imposed to the sugar industries as per the BG Regime.

Sr. No	CODE	Consent conditions	Verification Protocol
1	SC1 A	The industry shall reduce waste water generation to 100 liters per ton of cane crushed.	<ul style="list-style-type: none"> • Check all the sources of waste water generation. • Check the earlier data with the industry about waste water generation at the different sources. • Obtain the proposal submitted by the industry to reduce the waste water generation at the source. Generally following measures are required to be taken to reduce the waste water generation. <p>A. Collection of excess condensate & storage to over head tanks after cooling through cooling tower.</p> <p>i) From Boiling Pan – Y/N</p> <p>ii) Quadripal body Section - Y/N</p> <p>iii) Juice Heater Section – Y/N</p> <p>iv) Recycle of excess condensate for</p> <p style="padding-left: 20px;">a) Imbitation at mill – Y/N</p> <p style="padding-left: 20px;">b) Preparation of Milk of lime – Y/N</p> <p style="padding-left: 20px;">c) Centrifuge washing – Y/N</p> <p style="padding-left: 20px;">d) Oliver filtrate washing – Y/N</p> <p>B. Boiler blow down recycled for wet scrubber and/or Ash quenching – Y/N</p> <p style="padding-left: 20px;">Qty. of boiler blow-down :-</p> <p>C. Spray pond water used for – sulpher burner cooling - Y/N</p> <p style="padding-left: 40px;">- for wet scrubber - Y/N</p> <p style="padding-left: 40px;">- for Ash quenching - Y/N</p> <p>D. No. of pumps out of ... nos. of pumps are replaced by mechanical seal. -- %</p> <ul style="list-style-type: none"> • Visit during operation of sugar factory following observations to be noted in visit report- a) Measure the V-notch reading then calculate flow with the help of calibration chart and compare with respective one month data. b) Flow meter reading provided at the outlet, quantity shown in M3/D. c) Check the monthly record maintained by the industry about cane crushed & flow measurement and comments accordingly. Whether industry is complying the condition of 100 litr/tonne of cane crushed.

	SC 1 B	Industry to provide flow meter at Inlet of ETP of Sugar & Co-Gen Units.	<ul style="list-style-type: none"> • If there is a gravity flow of the effluent to ETP then V notch at the inlet of the ETP is required to be installed by the industry and digital flow meter required to be installed at the outlet of the ETP (as most of the time the disposal is after pumping and having a closed pipe line and sufficient pressure to measure flow) • If the flow of effluent to the ETP through pumps then digital flow meter is required to be provided at inlet of ETP itself. • Whether industry has placed the order for installation of certified and calibrated flow meter. • Whether industry has given Bar chart (time bound program) for installation of flow meter within a stipulated period. • Report the non-compliance observed if industry is not following the schedule of bar chart.
2	SC2	Upgrade your ----- undersize/oversized units of the Effluent Treatment Plant to adequate capacity.	<ul style="list-style-type: none"> • Most of the existing ETPs are not having proper sizes e.g. aeration tank & clarifier are having higher or lower residence time resulting undersized or oversized therefore it is necessary to upgrade the ETP accordingly i.e. correct sizes of ETP units. • Obtain the proposal of up gradation of ETP alongwith techno feasibility report i.e. supported with technology based design. • Check the feasibility report submitted by the industry. • Obtain the Bar chart for the upgradation of the ETP within stipulated time period. • Report the non-compliance observed if industry is not following the schedule of bar chart.
	SC2A	Placing the order for upgradation	
	SC2B	Completion and commissioning of upgraded ETP	
	SC2 C	Separate Primary ETP to be provided for DM Plant effluent & cooling water	
3	SC 3	Make arrangements to cover the effluent collection and carrying system to avoid the ingress of Bagasse and other material	<ul style="list-style-type: none"> • Obtain proposal to provide the cover on the effluent carrying systems. • Please check whether mechanical/ manual baggasse removal system is provided at mill section gutter.
4	SC 4	Adequate land to be made available (owned by self or with bilateral agreement with land owners) for disposal of treated effluent (20 Cubic Meter per acre of Land) to achieve zero discharge into in land surface water bodies (Sugar + Co-Gen).	<ul style="list-style-type: none"> • Obtain the data about the land availability for disposal of the effluent @ 20 m3/acre with agronorms plan (crop & rotation patarn) • Obtain the bilateral agreements of the nearby farmers if the factory is not having sufficient land for disposal on it's own. • Whether 15 days holding capacity tank for treated effluent is provided.
5		Industry shall upgrade existing Air pollution control system by	

	SC5 A	Providing adequate stack height	<ul style="list-style-type: none"> Obtain the proposal for increase in stack height wherever required.
	SC5 B	Providing ESP/Bag Filters/Wet Scrubber as per CREP condition	<ul style="list-style-type: none"> Obtain the proposal of up gradation of APC system alongwith along with Bar chart program, for placing of the order, installation, completion & commissioning of the upgraded APC systems. Report the non-compliance observed if industry is not following the schedule of bar chart.
		Placing the order for upgradation	
		Completion and commissioning of upgraded APC for sugar unit	
	SC5 C	In case for separate Boiler for Co-Gen (for 2 nd Boiler)	<ul style="list-style-type: none"> Obtain the proposal of up gradation of APC system alongwith along with Bar chart program, for placing of the order, installation, completion & commissioning of the upgraded APC systems. Report the non-compliance observed if industry is not following the schedule of bar chart.
6	SC 6	Plans to be submitted for Utilization of Fly ash & Bottom ash as per Fly ash Notification	<ul style="list-style-type: none"> Obtain the plan for utilization of fly ash & bottom ash as per the fly ash notification.
7	SC 7	O & M for achieving consented standards of Effluent	<ul style="list-style-type: none"> Monthly sampling is compulsory and field observations shall be mentioned in the inspection report/visit report.
8	SC 8	O & M for achieving consented standards of Stack emission	

Note:- 1) NEERI has suggested a new technology i.e. Natural Treatment System which will act as a polishing unit and can be provided by converting 15 days storage tank into 10 + 5 days hydraulic retention time. This technology was also discussed & circulated during the orientation meeting of SROs.

SRO shall explore the possibility to install this technology in the one or two sugar industries to check the viability of the new technology.

2) It is also directed to verify and to submit status report about the steps taken by the industry in order to comply the directions issued by CPCB regarding installation of on line continuous stack emission monitoring system and on line effluent monitoring system at the out let of ETP.