

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No: - BO/CAC-Cell/EIC No:-NG-10867-14/CAC/2407

Date- 03/03/2015

To,
M/s. Suryalaxmi Cotton Mills Ltd.
9 Km, Ramtek Mouda Road.
Village Nagardhan, Tal. Ramtek
Dist. - Nagpur - 441106

Subject: Renewal of consent to operate with increased CI and amalgamation of two consents in RED category.

- Ref: 1. Consent to Operate granted vide no. BO/JD(WPC)/RO Nagpur/EIC NO NG-5696-11 R/CC-CAC 418 dtd. 04.05.2012.
2. Consent to Operate granted vide no. BO/JD(APC)/EIC No. NG- 7527-12/O/CC-CAC-984 dtd. 04.12.2012.
3. Amendment of Consent No. BO/JD(APC)/EIC No. NG- 7527-12/O/ Amend /CC-CAC-879 dtd. 21.03.2013.
4. Your application approved in CAC meeting held on 24.02.2015.

Your application:- CR1405000060

Dated: 01.04.2014.

For: Renewal of consent to operate with increased CI and amalgamation of two consents under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent is granted for a period upto 31.01.2016.
- The actual capital investment of the industry is Rs. 338.05 Crs. (Existing CI (textile)-Rs. 208.33 Cr + Existing CI (power)-Rs.113.62 Cr i.e. Rs. 321.95 Cr and increased CI- Rs. 16.1 Cr. i.e. Total CI- 338.05 Cr. as per CA Certificate submitted by industry).
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Denim & other varieties of yarn fabrics	2000 MT/M
2.	Hard & soft waste	184.50 MT/M
3.	Electricity Generation (Coal Based Thermal Power Plant)	25 MW (1x25 MW)

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	1007.5	As per Schedule -I	Maximum recycle
2.	Domestic effluent	79.6	As per Schedule -I	On land for gardening

M/s. Suryalaxmi Cotton Mills Ltd, SRO Nagpur I/I/R/L/32733000

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5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Boiler No. 4	1	As per Schedule -II
2.	Boiler No. 1, 2 & 3	1 (Common)	As per Schedule -II
3.	Thermopac Fluid Heater	1	As per Schedule -II
4.	DG Set No. (2 Nos.)	2	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type of Waste	Quantity & UoM	Treatment	Disposal
1	Fly Ash	5640 MT/M	--	Shall be disposed to cement manufacturers & brick manufacturers. Disposal shall be as per GeI Fly Ash Notification.
2	Bed Ash	1389 MT/M	--	
3	Packing Waste	5.5 MT/M		Scientific Disposal/sale
4	Fabric/Cotton waste	100 MT/M		
5	Micro dust	4.75 MT/M		
6	Biological Sludge	15 MT/M		Used as Manure

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Chemical Sludge from waste water treatment	24.1, 26.1 34.3	30.0	MT/M	--	CHWTSDF
2	Used/Spent Oil.	5.1	0.875	MT/M	--	By Sale to authorized recyclers
3	Used Asbestos Material/Sheets	Schedule-II	0.04	MT/M	----	CHWTSDF,
4	E-Waste	33.3	0.5	MT/Y	--	By Sale to Authorized recyclers
5	Waste/residue containing oil	5.2	In respect of generation	MT/Y		By Sale to authorized recyclers

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.

9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

10. Industry shall submit the design details of ETP and STP in TAC format to check the adequacy by 31.03.2015.

11. Industry shall carryout the performance audit of APC equipments to check the adequacy by 31.05.2015.

12. Industry shall comply with the conditions of conditional restart direction issued on 10.2.2015.

For and on behalf of the
Maharashtra Pollution Control Board


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD No	Date	Drawn On
1	Rs. 32,05,322/-	612721	25.03.2014	State Bank of Hyderabad
Note	Board has balance consent fee of Rs. 20,28,389/- which will be considered during next renewal of consent to operate.			

Copy to:

1. Regional Officer - Nagpur- He is directed to return the BG of Rs. 1 lakh, Rs. 2 lakh and Rs. 50,000/- towards construction of New RCC holding tank, Installation & operation of RO plant, Installation and operation of MEE plant as industry has complied with the interim directions issued on 31.5.2011, as reported by SRO-I, Nagpur vide letter dated 11.06.2014.

Also return the BG of Rs. 1.5 lakhs obtained towards O&M of pollution control system so as to avoid the duplication however, separate BG's imposed towards O&M of ETP and APC systems in the Schedule-III.

2. Sub-Regional Officer Nagpur-1, MPCB, Nagpur - They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website updation purposes.

Schedule-I
Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided 03 Nos. of Effluent Treatment Plant (ETP) with the design capacity of 400 CMD, 500 CMD and 250 CMD (CPP) respectively and 03 Nos. of RO Plant of capacity 500 CMD two nos. and 300 CMD one no followed by Multiple effective Evaporator.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

a) Textile Unit :

Sr No.	Parameters	Standards as per EP Act, 1986 (Limiting Concentration in mg/l, except for pH)
01	pH	5.5 to 9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	30
04	Total Dissolved Solids	2100
05	Suspended Solids	100
06	COD	250
07	Detergent	2
08	TAN	50

b) Captive Power Plant:

I. Condenser Cooling Water

- | | | |
|----------------------------|---------------|--|
| 1) pH | Between | 6.5 to 8.5 |
| 2) Temperature | Not to exceed | 5 Degree C. Higher than the intake water Temp. |
| 3) Free Available Chlorine | Not to Exceed | 0.5 mg/l |

II. Boiler Blow Down

- | | | |
|-------------------|---------------|----------|
| 1) SS | Not to Exceed | 100 mg/l |
| 2) Oil and Grease | Not to Exceed | 20 mg/l |
| 3) Copper (Total) | Not to Exceed | 1.0 mg/l |
| 4) Iron (Total) | Not to Exceed | 1.0 mg/l |

III. Cooling Tower Blow Down

- | | | |
|----------------------------|---------------|----------|
| 1) Free Available Chlorine | Not to Exceed | 0.5 mg/l |
| 2) Zinc | Not to Exceed | 1.0 mg/l |
| 3) Chromium (Total) | Not to Exceed | 0.2 mg/l |
| 4) Phosphate | Not to Exceed | 5.0 mg/l |

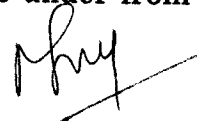
IV. DM Plant Effluent

- | | | |
|------------------------|---------------|------------|
| 1) pH | Between | 5.5 to 9.0 |
| 2) SS | Not to Exceed | 100 mg/l |
| 3) Oil and Grease | Not to Exceed | 10 mg/l |
| 4) BOD 3days 27 Deg. C | Not to Exceed | 30 mg/ l |
| 5) COD | Not to Exceed | 250 mg/ l |
| 6) TDS | Not to Exceed | 2100 mg/l |

- C] The total treated effluent of captive power plant shall be recycled/reused for ash handling and dust suppression etc. and shall achieve zero discharge and treated effluent of textile unit shall be recycled to the maximum extent and remaining shall be discharged in to drainage system provided by MIDC after confirming the above standards. In no case, at any time effluent shall finds its way to any water body directly or indirectly.
- 2) A] As per your consent application, you have provided septic tank and overflow of the same treated in secondary system of Effluent Treatment Plant.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.
- | | | | |
|-----|---------------------------------|-----|-------|
| (1) | Suspended Solids. Not to exceed | 50 | mg/l. |
| (2) | BOD 3 days 27oC. Not to exceed | 30 | mg/l. |
| (3) | COD Not to exceed | 100 | mg/l. |
- C] The treated sewage shall be recycled/reused to the maximum extent for ash handling and dust suppression etc. after confirming the above standards. In no case, at any time effluent shall finds its way to any water body directly or indirectly.
- 3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	1212
2.	Domestic purpose	98.5
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	800
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	Nil

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1.	Boiler No. 4	ESP	75	Coal	600 MT/day	0.5	
2.	Boiler No.1, 2, & 3.	Separate MDC & Common Bag Filter	33 (common)	Coal	44	MT/day	0.5
				Rice Husk	20		
3.	Thermo-pack Fluid Heater	Multiple cyclone separator	36	Coal	7.0 MT/day	0.5	
4.	D.G. Sets (2 x 1250 KVA)	Mufflers	6.5*	HSD	1.76 KL/day	1.0	

*: Above the shed in which DG is installed.

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

For Boiler No 4 of CPP			
1.	Particulate matter	Not to exceed	100 mg/Nm ³ .
For Boiler No 1, 2 & 3 of Textile unit			
2.	Particulate matter	Not to exceed	150 mg/Nm ³ .

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/ alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
6. The industry shall make necessary provision for installation of flue Gas De-Sulfurisation (FGD) system with 90% efficiency in its design and layout and sufficient floor space so that it can be installed in future as & when directed by Board.
7. Dust collection system and automatic water sprinkler system provided to coal handling plant shall operate & maintain continuously.
8. Dust collector of sufficient capacity provided to coal crusher and any other sources of SPM shall be operated and maintained continuously.
9. There shall not be any fugitive emissions from coal storage yard.

**Schedule-III
Details of Bank Guarantees**

Specific conditions (Textile Industries) with Bank Guarantees along with time bound programme for compliance

Code	Compliance	Bank Guarantee (in Rs)	Time for compliance	BG validity
THC1	Hazardous Waste as per the HW (M, H & TM) Rules, 2008.	Rs. 2,25,000/-	Continuous	31.05.2016
TWO1	Towards Operation & Maintenance of the Effluent Treatment Plant to achieve disposal standards	Rs. 10,00,000/-	Continuous	31.05.2016
TAO1	Towards Operation and Maintenance of Air Pollution Control Devices to achieve emission standards	Rs. 5,00,000/-	Continuous	31.05.2016

Maharashtra Pollution Control Board

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) Regular ground water monitoring would be required to be done and sampling shall be carried out at least twice in a year.
- 4) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 7) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 8) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008.
- 9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity (in case of Consent to establish).
- 12) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 13) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 14) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 15) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 17) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution

control system. A register showing consumption of chemicals used for treatment shall be maintained.

- 18) Conditions for D.G. Set
- a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 19) The industry should not cause any nuisance in surrounding area.
- 20) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 21) The applicant shall maintain good housekeeping.
- 22) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 23) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 24) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 25) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 26) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 27) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 28) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 29) ***The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF/GoM vide No. EC -2008/1436/CR.2/TC1 dtd. 24th January 2012.***

- 30) The industry shall comply with the notification issued by MoEF for utilization of fly ash from coal or lignite based thermal power plants dated 14th September, 1999 and as amended on 3rd November, 2009.
- 31) Industry shall provide dry fly ash handling & collection system and utilize the fly ash as per the fly ash notification of the Govt. of India
- 32) Transportation of coal shall be carried out through trucks by covering tarpaulin. Coal carrying conveyor belt shall be covered from all side with provision of water springing/spraying system properly.
- 33) The applicant shall operate and maintain online continuous monitoring system for process CPP emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office and operate the same regularly.
- 34) The applicant shall ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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P. J. J.

Maharashtra Pollution Control Board