

MAHARASHTRA POLLUTION CONTROL BOARD

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

Consent order No :- 1.0/BO/CAC-Cell/EIC No:-PN-28504-16/CAC- 925] Date-19/07/2016

To,
M/s. Greaves Cotton Ltd.,
(Diesel Engine Unit)
Mumbai-Pune Road,
Chinchwad, Pune-411 019.

Sub : Renewal of Consent to Operate with increased CI under Red category.

Ref : 1. Earlier Consent granted vide no. BO/CAC-Cell/EIC No. PN-23352-14/CAC-6602 dtd. 03.06.2015.

2. Your application is approved in CAC meeting held on 08.07.2016.

Your application: CR1602000353.

Dated: 30.01.2016.

For: Renewal of Consent to Operate 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 the period from 01.03.2016 to 28.02.2021.
- The actual capital investment of the industry is Rs. 109.77 Cr. (Existing C.I. is Rs. 93.51 Cr and increased C.I. Rs. 16.26 Cr i.e. total CI. Is Rs. 109.77 Cr. as per C.A. Certificate submitted by industry).
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity
1.	Diesel Engines Generator Sets	450 Nos./M

- 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	4.0	As per Schedule -I	Recycle to maximum extend and remaining on land for gardening
2.	Domestic effluent	70	As per Schedule -I	

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

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	DG set	14	As per Schedule -II
2.	Process stack	6	As per Schedule -II
3.	Furnace	1	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

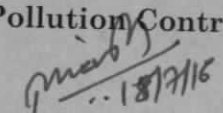
Sr. no	Type Of Waste	Quantity & UoM	Treatment	Disposal
1.	MS Scrap	85 MT/Y	---	By sale to authorized vendor
2.	Boaring 69	40 MT/Y	---	By sale to authorized vendor
3.	Grinding dust	25 MT/Y	---	By sale to authorized vendor
4.	CI scrap	50 MT/Y	---	By sale to authorized vendor
5.	Paper cardboard Garbage	50 MT/Y	---	By sale to authorized vendor
6.	Plastic	04 MT/Y	---	By sale to authorized vendor
7.	wooden scrap	35 MT/Y	---	By sale to authorized vendor
8.	Empty MS barrels	50 Nos./M	---	By sale to authorized vendor

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

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treat ment	Disposal
1	Used/spent oil	5.1	8	KL/Y	----	Sale to authorized re-processor
2	Paint sludge	21.1	1.5	MT/Y	----	CHWTSDF
3	Oil soaked cotton waste	5.2	2	MT/Y	----	CHWTSDF
4	Waste/residue containing oil	5.2	35	KL/Y	----	CHWTSDF
5	ETP sludge	34.3	1.0	MT/Y	----	CHWTSDF
6	Discarded Asbestos	15.2	100	MT/Y	----	CHWTSDF
7	E-Waste	---	2.0	MT/Y	----	CHWTSDF
8	Lead Acid Batteries	B-4	25	Nos./M	----	Sale to authorized re-processor
9	Empty Barrels/containers	33.3	125	Nos./M	----	Sale to authorized re-processor

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 has done modernization by up-grading the process manufacturing unit to manufacture New Engine products as per the emission norms of CPCB II & also procured new machines to improve quality and efficiency of product & installation of fire hydrant system without obtaining consent to establish from the Board and violated the environmental laws. Hence, it was decided to obtain a resolution from the Company's Board that they have done modernization by up-grading the process manufacturing unit to manufacture New Engine products as per the emission norms of CPCB II & also procured new machines to improve quality and efficiency of product & installation of fire hydrant system without consent to establish and violated the provisions of environmental laws and in future, they will not do such violation.

For and on behalf of the
Maharashtra Pollution Control Board


(P. K. Mirashe)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1.	Rs. 50,000/-	044831	29.01.2016	HDFC Bank
2.	Rs. 10,97,726/-	044832	29.01.2016	HDFC Bank
3.	Rs. 100/-	038289	30.01.2016	HDFC Bank

Copy to:

1. Regional Officer-MPCB, Pune- *He is directed to return the existing BG of Rs. 2 lakh obtained towards submission of proper water budget along with design details of STP, ETP and APC system as industry has submitted the same as reported by SRO. He is also directed to forfeit BG of Rs. 2.5 lakh out of Rs. 10 lakh obtained towards O&M of pollution control system as out of 11 JVS results of ETP outlet, 05 JVS results are exceeding the consented standards and obtain top-up BG of Rs. 5 lakh to make the total BG of Rs. 12.5 lakh towards O&M of pollution control system.*
2. Sub-Regional Officer, Pimpri-Chinchwad-M.P.C.B, They are directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website up-dation purposes.

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

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP).

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.

Sr No.	Parameters	Standards prescribed by Board (Limiting Concentration in mg/l, except for pH)
1	pH	5.5-9.0
2	Oil & Grease	10
3	BOD (3 days 27°C)	30
4	COD	250
5	Total Dissolved Solids	2100
6	Suspended Solids	100
7	Chloride	600
8	Sulphate	1000
9	Total Metal	5.0
10	Phosphate	5.0

C] The treated industrial effluent shall be recycled to the maximum extent and remaining treated effluent shall use on land for gardening after confirming the above standards. There shall not be any discharge outside the factory premises.

2) A] As per your consent application, you are treated your domestic effluent into sewage treatment system.

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 27°C.	Not to exceed	30	mg/l.
(3)	COD	Not to exceed	100	mg/l.

C] The treated domestic effluent of 54 CMD shall be reused/recycle in the process, toilet flushing, cooling tower, fire fighting etc and remaining 20 CMD treated effluent shall be used on 4000Sq. mtrs of land for gardening/plantation after confirming the above standards. There shall not be any discharge directly/indirectly outside the factory premises.

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	25
2.	Domestic purpose	100
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	5.0
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.

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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%	SO2 Kg/day
1	DG set No 1,2 & 3 (320 KVA x 3 Nos.)	---	5 meter each	HSD	255 lit/hr	1	122.4
2	DG set (250 KVA)	---	3	HSD	64 lit/hr	1	30.72
3	DG set (500 KVA)	---	7.2	HSD	122 lit/hr	1	58.56
4	D Engine Test Bed No 1, 2 & 3 (320 KVA)	---	7.2	HSD	85 lit/hr	1	40.8
5	D Engine Test Bed No 4 (500 KVA)	---	7.2	HSD	122 lit/hr	1	58.56
6	D Engine Test Bed No 5 (500 KVA)	---	7.2	HSD	122 lit/hr	1	58.56
7	DDG test bed no 1 (500 KVA)	---	7.2	HSD	122 lit/hr	1	58.56
8	G Series test cell (200 KVA)	---	2 mtr above roof	HSD	56 lit/hr	1	26.88
9	G Series test cell (250 KVA)	---	2 mtr above roof	HSD	64 lit/hr	1	30.72
10	R&D test cell 1 & 2 (550 KVA)	---	2 mtr above roof	HSD	125 lit/hr	1	60
11	R&D test cell 3, 4 & 5 (550 KVA)	---	2 mtr above roof	HSD	125 lit/hr	1	60
12	R&D test cell 6, 7 & 8 (550 KVA)	---	2 mtr above roof	HSD	125 lit/hr	1	60
13	D shop Paint booth	---	2 mtr above roof	---	---	---	---
14	D shop Paint washing booth	---	2 mtr above roof	---	---	---	---
15	G series paint booth	Water curtains provided	2 mtr above roof	---	---	---	---
16	G series Paint washing	---	2 mtr above roof	---	---	---	---

Sr. No.	Stack Attached To	APC System	Height in Mtrs	Type of Fuel	Quantity & UoM	S%	SO2 Kg/day
	booth						
17	D shop Pat Furnace	---	2 mtr above roof	---	---	---	---
18	Fire hydrant pump set	---	2 mtr above roof	HSD	56 lit/hr	1	26.88

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)

- Fume extraction system followed by scrubber of sufficient capacity shall be provided to all source of gaseous emission.
- Painting activity should be done in an enclosure.

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:

Particulate matter	Not to exceed	150 mg/Nm ³ .
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- 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.
- 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).

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Schedule-III
Details of Bank Guarantees

BG History

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Amt of BG to be forfeited from BG imposed	Purpose of BG forfeiture
1	C to R	Rs. 10/- Lakh	Rs. 2.5/- lakh	As the JVS results of ETP outlet are exceeding the consented standards

BG proposed

Sr. No.	Consent (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	Out of Rs. BG of 10/- Lakh, Rs. 2.5/- lakh to be forfeited remaining BG of Rs. 7.5 lakh to be extended & Rs. 5 lakh top-up to be obtained to make total BG of Rs. 12.5/- lakh	15 days	Towards operation and maintenance of pollution control system	continue	31.08.2021
2	CtoR	Rs. 2 lakhs	15 days	Towards submission of Board resolution	20.08.2016	31.08.2021

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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) If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 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, which can be recycled /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 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 Hazardous 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.

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