

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400 022

Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No KP-15688-14 /21st CAC - 12009
Date-16/12/2014

To,
M/s. Finolex Industries Limited,
At, Po- Ranpar, Golap,
Ratnagiri Pawas Road, PO.Box - 11.
RATNAGIRI - 415612

Subject: Renewal of Consent to Operate RED

Ref : 1. Earlier Consent granted vide no. BO/JD-PAMS/RO-KP/EIC-KP-10501-12/R/CAC-726 dtd 27.12.2012.

2. Minutes of CAC meeting held on 28.11.2014

Your application: CR1407000154

Dated: 04.07.2014

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:

1. The consent is granted for a period from 31/07/2014 to 31/08/2017
2. The actual capital investment of the industry is Rs.1444.18 Crs. (As per C.A. Certificate submitted by industry)
3. The Consent is valid for the manufacture of -

[A]

Sr. No.	Product / By-Product Name	Maximum Quantity
1	S-PVC (Suspension Poly Vinyl Chloride) E-PVC (Emulsion - Poly Vinyl Chloride)	22883 MT/M
2	Compounds / Profiles	6500 MT/M
3	Pipes	6000 MT / M
4	Water Desalination Plant for Captive use Only	2400 M ³ /Day
5	Electricity Generation (Coal based Captive Power generation)	43 MW
	BY- PRODUCTS	
1	30 % HCl	783 MT/M
2	Low Boiling Components	75 MT/M

[B]

For the activity of imports, Storage and Handling facilities (Ethylene terminal facilities for Ethylene, Ethylene Di-chloride (EDC), Vinyl Chloride Monomer, LPG, and Methanol at survey No.134 and 139. The capacities of Storages are as follows.

Sr. No.	Name of Chemical	Quantity in MTA	Location of Storage
1	Ethylene	21000 MT (Two tanks of 5500 MT each and one tank of capacity 10000 MT. Which was earlier used for storage of LPG)	At Terminal
2	Ethylene Di Chloride (EDC)	57400 MT (4 tanks of 10000 MT and One tank of Capacity 14500 MT or 17400 MT which was earlier used for Storage of Methanol)	At Tank farm in Main plant Area and Terminal Facility.
3	LPG	10000 MT (One tank of 10000 MT)	At Terminal
4	VCM	8908 MT (Two tanks of 4454 MT each)	At Terminal

4. 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	4020 CMD	As per Schedule -I	Recycle / on land for gardening plantation
2.	Domestic effluent	136 CMD	As per Schedule -I	On land for gardening
3	Desalination Water Reject back to Sea	4000 CMD	As per Schedule -I	Discharge to sea
4	CRP : Sea Water Cooling Tower Blow down	4238 CMD	As per Schedule -I	Discharged in to Sea
5	GPP : Boiler blow down	210 CMD	As per Schedule -I	Recycled / re-used for coal and Ash handling, Dust suppression.

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, furnace	4	As per Schedule -II
2.	Process vents	5	As per Schedule -II
3.	DG set	8	As per Schedule -II
4.	Incinerator	2	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biological ETP sludge	70 MT/A	---	Used as Manure
2	Insulation Waste	24 MT/ A	---	Land Fill
3	Garbage	100 MT/A	---	Bio degradable composting and used as manure and rest will be incinerate
4	Canteen Waste	12 MT/A	---	Composting and used as manure
5	PVC Scrap Pipes	62 MT/A	---	Sale
6	Rejected Filter and Scrap	6 MT/A	---	Sale
7	Coal / Fly Ash	900 MT/M	---	Should be sent to cement manufacturing / brick manufacturing ,

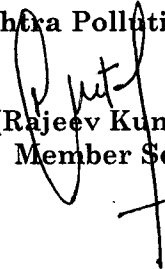
7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No	Type Of Waste	Category	Quantit:	UOM	Treatment	Disposal
1	Other spent and lubricating oil	5.1	32.5	KL/A	Not Applicable	Sale to authorized recycler / Pre-processor
2	Sludge and filter contaminated with Oil	3.3	15.1	T/A	Not Applicable	Incineration
3	Residue from Vinyl Chloride monomer production (Coke)	22.3	9.0	T/A	Not Applicable	Incineration

4	Discarded containers & Barrels	33.3	13000	Nos/A	Not Applicable	Sale to scrap dealer after decontamination / detoxification.
5	Chemical Sludge from Waste water treatment	34.3	175	T / A	Not Applicable	Land Fill to CHWTSDF
6	Filter and filter material which have organic liquid in them for Eg. Mineral oil, Synthetic Oil, and organic chlorine compounds	35.1	450	Nos/A	Not Applicable	Incineration
7	Ash from Incineration from Hazardous Waste	36.2	4	T / A	Not Applicable	Land Fill to CHWTSDF
8	Spent Hydrogenation Catalyst (Nickel Compound)	B - 6	5	T/A	Not Applicable	Recycle / Sell to authorize recycler.
9	Spent Oxy catalyst (Copper Compound)	B - 3	18	T / A	Not Applicable	Land Fill to CHWTSDF
10	Phosphate Sludge	12.5	162	T/A	--	Used as Manure

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 carry out water audit from renowned institutes like IIT, NEERI and submit the report by 28.02.2015. Also shall submit BG of Rs 2 lakhs for the compliance of the same.
11. Industry shall carry out performance evaluation of ETP from renowned institutes like IIT, NEERI and submit the report by 28.02.2015. Also shall submit BG of Rs 2 lakhs for the compliance of the same.
12. Industry shall promote adoption of clean coal (with ash content less than 34%) and clean power generation technologies and 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.

For and on behalf of the
Maharashtra Pollution Control Board


(Rajeev Kumar Mital)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	8665180 /-	000001	23.05.2014	Bank of Baroda
2	240696/-	21391	9.12.2014	Bank of Maharashtra

Copy to:

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

Maharashtra Pollution Control Board

[Handwritten Signature]

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 4080 CMD.

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.

FOR MAIN PLANT :

Sr No.	Parameters	Standards prescribed by Board (If any)
		Limiting Concentration in mg/l, except for pH
01	pH	6.5 - 8.5
02	Oil & Grease	10
03	BOD (3 days 27oC)	50
04	Bioassay Test	90 % survival of fish after 96 hrs in 100% effluent
05	Chromium (Hexavalent)	0.1
06	Cyanide	0.2
07	Phenolics (C6H5OH)	5
08	Suspended Solids	100
09	COD	250
10	Fluoride (as F)	5
11	Total Chromium (As Cr)	2
12	Dissolved Oxygen	Shall not less than 3 mg or 40% of saturation values which ever is less
13	Temperature	Shall not exceed 5° above receiving body temperature
14	Total Ammonical Nitrogen	50

FOR CPP :

Sr No.	Parameters	Standards prescribed by Board (If any)
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
A	Condensor cooling water	
1	pH	6.5 - 8.5
2	Temperature	Shall not exceed 5° higher than the intake water temperature
3	Free available Chlorine	0.5
B	Boiler Blow down	
1	Suspended Solids	100

2	Oil & Grease	20
3	Copper (Total)	1
4	Iron (Total)	1
C	Cooling Tower Blow down	
1	Free available Chlorine	0.5
2	Zinc	1
3	Cromium (Total)	0.2
4	Phosphate	5
D	D.M Plant Effluent	
1	pH	5.5 – 9.0
2	BOD	30
3	COD	250
4	Suspended Solids	100
5	Oil & Grease	10
6	TDS	2100

C) a) The treated trade effluent shall be Recycled to maximum extent and remaining shall be used on land for gardening /plantation as shown in companies drawing Number FIL/C/97/ 014 only. In rainy season the treated effluent should be discharge in to sea through pipe line up to plantation site as shown in drawing Number FIL/C/97-014

Total Quantity : 4020 M³/Day

b) The reject from Desalination plant should be discharged in to Arabian Sea with diffuser system at a point suggested by NIO and mentioned in Env. Clearance accord by MoEF New Delhi on 8th Oct-2008

Total Quantity : 4000 M³/Day

c) Total trade effluent from generated from Power generation plant shall be recycled / re-use for Ash handling, coal handling dust suppression etc. Sea water intake for cooling tower shall be discharge in to Sea.

Total Sea Water Blow Down Quantity : 4238 M³/Day

Boiler Blow Down : 210 M³/Day

d) Domestic effluent: - The treated domestic effluent shall be used on land for gardening / plantation only.

Domestic effluent: - 136 m³/Day

2) A.] As per your consent application, you have provided 16 nos septic tank and soak pit. Ou of 16 nos of septic tank , major effluent from 3 of them i.e approx 136 CMD is collected after treatment and mixed with te influent of main ETP before treatment.

B] In case the treatment system is combined for trade effluent and sewage then the standards and disposal path prescribed at sr. no.1 B & C of schedule I shall be applicable.

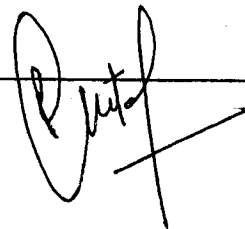
3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification

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	9677
2.	Domestic purpose	170
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	3266
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0
5	Boiler Blow Down DM plant Softening	282
6	Desalination Plant - Sea Water	6400

- 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:

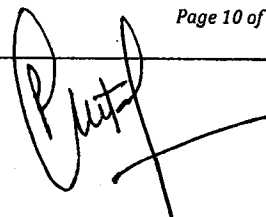
1. As per your application, you have provided the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Boilers (3) _Common Stack	• Oxygen analyzer in flue gas	61	LSHS	95 MT /Day	1.0 %	1900
2	VCM Liquid Incinerator	• Water scrubber • O2 analyser • Chlorine analyzer	32	--	--	--	--
3	Flare stack with two riser (Plant)	Used in emergency only	50	LPG	--	--	--
4	Flare stack (Terminal)	Used in emergency only	30	LPG	--	--	--
5	DG Set 1000 kVA (6 Nos) At Plant	Used in emergency only	6.32 meter above roof	HSD	--	--	--
6	DG Set 75 kVA (1 Nos) At Terminal	Used in emergency only	1.75 meter above roof	HSD	--	--	--
7	DG Set 400 kVA (1 Nos) At CPP	Used in emergency only	4 meter above roof	HSD	--	--	--
8	EDC Cracker R-1401	• Oxygen analyzer	40 meter	LDO/ HSD / Naphtha / SKO	107 MT / Day	1.8	3852
9	EDC Cracker R-1402	• Oxygen analyser	40 meter				
10	S-PVC Drying Line No-1	• Water scrubber	44 meter	--	--	--	--
11	S-PVC Drying Line No-2	• Water scrubber	44 meter	--	--	--	--
12	E-PVC Drying Line Unit -66	• Bag Filter	40 meter	--	--	--	--
13	E-PVC Processing Unit - 67	• Bag Filter	40 meter	--	--	--	--
14	S-PVC Drying Line No-3	• Water scrubber	46 meter	--	--	--	--
15	Solid Incinerator	• Water Scrubber	32 meter	HSD / Naphtha /	--	--	--
16	Boiler - CPP (2 X 110 TPH)	• ESP • NOx analyzer • SOx analyzer • TPM analyzer	86 meter	Coal	600 MT/Day	0.3	3600

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.
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 .
SO ₂ Process	Not to exceed	50 ppm
Acid mist	Not to exceed	35 mg/Nm ³
NO _x from processes	Not to exceed	400 ppm

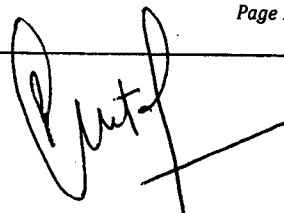
4. Industry shall follow the standards for incinerator as per CPCB guidelines.
5. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
6. 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).



Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R	5 Lacs	Submitted	O & M of PCS	31.08.2017	31.12.2017
2	C to R	2 Lacs	Within 15 days from the date of issue of consent	Industry shall carry out water audit from renowned institutes like IIT, NEERI and submit the report within 3 months period.	28.02.2015	30.06.2015
3	C to R	2 Lacs	Within 15 days from the date of issue of consent	Industry shall carry out performance evaluation of ETP from renowned institutes like IIT, NEERI and submit the report within 3 months period.	28.02.2015	30.06.2015

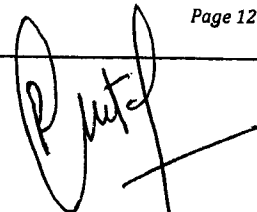
The existing BG of Rs 5 lakhs for O & M of PCS shall be extended for a period upto 31.12.2017



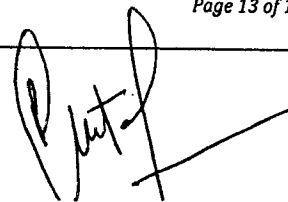
Schedule-IV

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) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) 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.
- 8) 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.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) 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).
- 11) 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).
- 12) 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.
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



- 15) 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.
- 16) 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.
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 26) The applicant shall install online continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within 3 months period and operate the same regularly.



27) The applicant shall install three continuous automatic 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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Maharashtra Pollution Control Board

