



Hi-Green Carbon Limited

Regd. Office : Plot No. 2721/A, Lodhika, G.I.D.C., Gate No.-1, Kalawad Road, Metoda, Rajkot - 360021. (Gujarat) India.

Mo.: +91 9106409053 ■ Email: compliance@higreencarbon.com ■ Website: www.higreencarbon.com ■ CIN: L45100GJ2011PLC066917 ■ PAN No.: AAQCS2877J

Date: May 19, 2026

To,
National Stock Exchange of India Ltd.
Exchange Plaza,
Plot no. C/1, G Block,
Bandra-Kurla Complex,
Bandra (E) Mumbai - 400 051

Subject: Intimation pursuant to Regulation 30 of SEBI (LODR) Regulation, 2015

Script: HIGREEN

Series: SM

Respected Sir,

Pursuant to Regulation 30 read with Part A of Schedule III of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, we are pleased to inform that upon receipt of the Consent to Operate ("CTO") from the Madhya Pradesh Pollution Control Board ("MPPCB") on May 18, 2026, for the 100 Tonnes Per Day ("TPD") tyre pyrolysis plant of Shantol Recycling Private Limited, a Wholly Owned Subsidiary of Hi-Green Carbon Limited situated at Dhar District, Madhya Pradesh, the Company has successfully achieved an aggregate tyre pyrolysis processing capacity of 300 TPD across its group operations.

The aforesaid plant has successfully completed its trial run and commenced commercial operations. With this expansion, the Company, along with its subsidiaries, now operates three (3) tyre pyrolysis plants of 100 TPD capacity each. Achieving an aggregate processing capacity of 300 TPD marks a significant milestone for the Company and strengthens its position as one of the largest tyre pyrolysis processing group globally.

The expansion is expected to enhance operational scale, improve production capabilities and support the Company's long-term growth strategy in the sustainable recycling and circular economy sector.

A copy of the Consent to Operate received from MPPCB is enclosed herewith.

Request you to take the same on record.

Yours Faithfully.

For, Hi-Green Carbon Limited

Amitkumar Bhalodi
Managing Director & CFO
DIN: 00410150



Consent Order

ORANGE-MEDIUM

CCA-Fresh

PCB ID: 160370

Outward No:130141,17/05/2026

Consent No:AWH-64437

To,
The Occupier,
M/s. Shantol Recycling Private Limited,
Plot no. 40, 41, 42, 43, 44 & 45,
Hatod Industrial Area, Tehsil Sardarpur,
Distt. Dhar (M.P).



Subject: Grant of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act,1974, under section 21 of the Air (Prevention & Control of Pollution) Act,1981 and Authorization under Hazardous and other Waste (Management & Transboundary movement) Rules, 2016

Ref: Your Application Receipt No. 1423972 Dt. 18/04/2026 and last communication received on Dt. 27/04/2026

With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent & authorization up to **30/04/2031**, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

SUBJECT TO THE FOLLOWING CONDITIONS :-

- a. Location: Plot no. 40, 41, 42, 43, 44 & 45, Hatod Industrial Area, Tehsil Sardarpur, Distt. Dhar(M.P).
Latitude : 22.6190 Longitude : 75.0553
- b. The capital investment : Rs. 49.67 Crs
- c. Product & Production Capacity:

| Product | Production capacity / year |
|------------------------------|----------------------------|
| Carbon slurry | 900.0 M.T |
| Oil | 13,500.0 M.T |
| Recovered Carbon Black (RCB) | 10,500.0 M.T |
| Syn. Gas | 5100 Cubic Meter |

Special Conditions:

- 1. For any change in above industry shall obtain fresh consent from the board.
- 2. Industry shall have to install balloons of adequate capacity with all safety measures to store the excess Pyro gas which shall be used for initial heating of the reactors.
- 3. That industry shall strictly comply the SOP issued by CPCB in January 2024.
- 4. The industry shall comply with the updated norms/directions/acts/rules/guidelines issued by the Hon'ble Courts/Tribunals/MoEFCC /MPPCB time to time.
- 5. Industry shall obtain EPR for waste tyres from CPCB as per provisions of notification issued by MoEF&CC under Rule-9 of HOWM Rules, 2016.

The Validity of the consent is up to **30/04/2031** and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

- * Conditions under Water Act
- * Conditions under Air Act
- * Conditions under Hazardous Rules
- * General conditions

By the order of Chairman, MPPCB



Signature Not Verified
Digitally Signed by : A. A
Mishra, Member Secretary
Date: 17/05/2026 11:34:25 AM

ACHYUT ANAND MISHRA
Member Secretary

(Organic Authentication on AADHAR from UIDAI Server)
TPAV # BYJMHA08UC

CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

Sector Specific Water condition:-

1. The daily quantity of trade effluent of the unit shall be Nil, and the daily quantity of sewage of the unit shall not exceed 3.0 KL/day

2. Trade Effluent Treatment:-

The applicant shall operate and maintain effluent treatment system properly to achieve following standards-

| | | | | | |
|-----------------------------|------------|-----------|-----------|------------|------------|
| pH | Between | 5.5 – 9.0 | TDS | Not exceed | 2100 mg/l. |
| Suspended Solids | Not exceed | 100 mg/l. | Chlorides | Not exceed | 1000 mg/l. |
| BOD3 Days 27 ⁰ C | Not exceed | 30 mg/l. | | | |
| COD | Not exceed | 250 mg/l. | | | |
| Oil and grease | Not exceed | 10 mg/l. | | | |

For other parameters general standards of discharge as notified under EP Act 1986 shall be applicable.

3. Sewage Treatment :- The applicant shall operate and maintain Sewage Treatment System properly to achieve following standards-

| | | |
|-----------------------------|------------|-----------------|
| pH | Between | 5.5 – 9.0 |
| Suspended Solids | Not exceed | 100 mg/l. |
| BOD3 Days 27 ⁰ C | Not exceed | 30 mg/l. |
| COD | Not exceed | 250 mg/l. |
| Oil and grease | Not exceed | 10 mg/l. |
| fecal coliform | Not exceed | 1000 MPN/100 ml |

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for category wise consumption of water for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements.

| Sr | Water Code (Qty in klpd - Kilo Ltr per Day) | WC : 45.0 | WWG : 3.0 | Water Source |
|----|---|-----------|-----------|--------------|
| 1 | Cooling Water | 20.0 | 0.0 | Local Body |
| 2 | Domestic Purpose | 5.0 | 3.0 | Local Body |
| 3 | Others | 20.0 | 0.0 | Local Body |

6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.

7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent.

8. The Consent does not authorize or approve the Construction of any physical structures or facilities or the undertaking of any work in any water course or within its high flood level (HFL) area.

9. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

10. Compilation of Monitoring data-

i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge. ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.

11. Recording of Monitoring Activities & Results-

i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.

ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:

- (i) The date, exact place and time of sampling
- (ii) The dates on which analysis were performed
- (iii) Who performed the analysis?
- (iv) The analytical techniques or methods used and

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(v)The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

12. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

13. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

14. Limitation of visible floating solids and foam:

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

15. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

16. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

17. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except :

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

18. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.

Additional Water condition:-

1. Entire treated waste-water shall be utilized in cooling and other auxiliary uses.
2. The surface water drains network shall be separate, Waste Collector shall ensure that drains /pipes carrying effluent shall not be joined to any surface water runoff carrying drains.
3. Waste Collector shall chanalize surface washing wastes raising within the premises to septic tank and soak pit.
4. The surface water drains network shall be separate, industry shall ensure that drains /pipes carrying effluent shall not be joined to any surface water runoff carrying drains.
5. Industry shall provide Zero Liquid Discharge (ZLD) condition throughout the operation by recycling & reusing the treated effluent within the premises

CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall operate and maintain air pollution control system to achieve the level of pollutants to the following standards:-

| Name of section | Capacity | Stack height (m) | Fuel | Control equipment to be installed | P.M, SOX, NOX(mg/NM3) |
|-----------------|-----------------------------|------------------|-----------------------|-----------------------------------|-----------------------------|
| D.G. Sets | 400 KVA | 10 | Diesel - 60 liter/hr. | acoustic enclosure | As per MoEF&CC/ CPCB norms. |
| Furnace | pyrolysis furnace (syn gas) | 30 | Coal Gas -5 cum/hr. | Water Scrubber | 150,100,50 |

2. The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:

- Particulate Matter (less than 10 micron) - 100 µg/m³ (PM10 µg/m³ 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 µg/m³ (PM2.5 µg/m³ 24 hrs. basis)
- Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 µg/m³
- Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 µg/m³
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m³

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. Industry/Unit shall provide with each stack port hole with safe platform of 1 meter width with support & spiral ladder/ Stepped ladder with hand rail up to monitoring platform as per specifications given in part-III emission regulation of CPCB. In no case monkey ladder shall be allowed as stack monitoring facility.

5. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

6. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

7. The industry/ unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

8. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

9. Industry shall take effective steps for extensive tree plantation preferably in 03 rows of the local tree species with minimum spacing of 2X2 meters within or around the industry/unit premises for general improvement of environmental conditions and as stated in below..

10. Industry shall write name of the industry on stack with heat resistant paint.

11. The industry shall install Pneumatic Ash Handling System with Silo and proper Air Pollution Control Devices to ensure effective handling of Boiler Ash without causing any air pollution.

12. The industry shall obtain PLI policy under provisions of PLI Act, 1991; if applicable.

Additional Air condition:-

- The waste collector shall ensure that the actual users is complying the standard operating procedure issued by MoEFCC for the Tyre Pyrolysis unit..

CONDITIONS PERTAINING TO THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016:-

FORM-2
[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorisation and date of issue : ,
2. Reference of application (No. and date) : **COF-1423972, dt: 18/04/2026**
3. The occupier of M/s. Shantol Recycling Private Limited is hereby granted an authorisation based on the enclosed signed inspection report (can be seen in xgn) for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at Plot no. 40, 41, 42, 43, 44 & 45, Hatod Industrial Area, Tehsil Sardarpur, Distt. Dhar(M.P).

Details of Authorisation

| Category of Hazardous Waste as per the Schedules I, II and III of these rules | Authorised mode of disposal or recycling or utilisation or co-processing, etc. | Quantity (ton/annum) |
|--|--|----------------------|
| Used or Spent Oil (I-5.1) | Through MPPCB Authorized Recycler | 0.300-M.T |
| Empty barrels/containers/liners contaminated with hazardous chemicals /wastes (I-33.1) | Through MPPCB Authorized Recycler | 0.200-M.T |
| Contaminated cotton rags or other cleaning materials (I-33.2) | MPPCB Authorised Pre-Processing,/ Recycler/CTSDF | 0.120-M.T |
| Wastes or residues containing oil (I-5.2) | MPPCB Authorised Pre-Processing,/ Recycler/CTSDF | 1200.000-M.T |
| Utilization facility | | |
| Waste Tyre Chips | In house facility | 30000.000 - M.T |

- (1) The authorisation shall be valid for a period of **01/05/2026 to 30/04/2031**
- (2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A. General conditions of authorisation:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made **COF-1423972** laid down under these Rules.

13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

15. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

B. Specific conditions:

1. The industry shall display the information on hazardous waste generated on notice board of size 6' x 4' (in Hindi & English) outside the unit main gate along with quantity and nature of hazardous chemicals being handled in the plant, including wastewater, air emission and hazardous wastes.

2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.

Additional Haz condition:-

1. The industry shall obtain insurance under Public Liability Insurance Act, if applicable and shall submit a copy to the board.

2. Any unauthorized change in production capacity, process, raw materials, personnel, equipments etc. as mentioned in the application by the person authorized shall constitute a breach of this authorisation.

3. The unit shall maintain the records of hazardous waste as per the Form-3 of rule 6(5) and shall online submit the annual return in Form-4 as per rule 6(5) 20(2) to this office on or before 30th June every year and preferably before 30th April.

4. The information regarding quantity of hazardous wastes generated and its analysis report should be sent to the Board online at least annually.

5. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.

6. The authorized person shall inform the name and address of the contact person / occupier responsible for hazardous waste management.

7. In case of importing Hazardous Waste, occupier shall apply to the M.P. Pollution Control Board, 180 days in advance in Form-6, for permission to import of the waste as per Rule 13(i) of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended up to date.

8. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on fax/telephone/email-it_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.5 as per Rule-10 of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended upto date.

Additional Packing, Labeling & Transportation of Hazardous wastes:-

1. The unit shall maintain the records of hazardous waste as per the Form-3 of rule 6(5) and shall online submit the annual return in Form-4 as per rule 6(5), 20(2) to this office on or before 30th June every year and preferably before 30th April.

2. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.

3. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on fax/telephone/emailit_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.11 as per Rule-22 of Hazardous and other Waste (Management and Transboundary Movement) Rule 2016 as amended upto date.

4. The occupier shall ensure that the hazardous waste are packaged and labeled, based on the composition in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board in October 2004 & updated from time to time.

5. In case of transportation of hazardous wastes through a State other than the State of origin or destination, the occupier shall intimate the concerned State Pollution Control Board before he hands over the hazardous wastes to the transporter

GENERAL CONDITIONS:

1. The non hazardous solid waste arising in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

| Type of waste | Quantity | Disposal |
|--|----------|--|
| Scrap/ Plastic packing material wood, card board, gunny bags etc | | Re-Use/Sale to M.P. Pollution Control Board's authorized party |

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- b. To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- e. To sample at reasonable times any discharge or pollutants.

3. This consent / authorisation is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent/authorisation

8. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

9. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :

- (a) Violation of any terms and conditions of this Consent.
- (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

10. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

11. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

12. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

13. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis

14. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month.

Additional condition:-

Minimum Requirement for Environmentally Sound Operation:

1. Unit should have a valid Consent to Establish (CTE) and Consent to Operate (CTO) under Water and Air Act and Authorization under the Hazardous & Other Waste (M&TM) Rules, 2016 issued by SPCB /PCC & Fire Safety Certificate issued by the concerned department.
2. Unit to comply with emission & effluents standards as prescribed by the concerned SPCB/PCC in consent to operate

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(CTO) under Water and Air Act. Further the management of Hazardous Waste generated to be done as per the conditions prescribed in the authorization issued by the SPCB/PCC under the Hazardous Waste (M&TM) Rules, 2016.

3. The feeding system should be provided with an air-lock arrangement so that no air enters the reactor during feeding.
4. Initial heating of the reactor to be done either by using pyro gas stored during previous cycle itself or by use of purge water (oil mix water)/oil water emulsion, or by tyre pyrolysis oil or any other fuel approved by concerned SPCBs/PCCs. After generation of pyro gas, the same is to be used for the purpose of heating reactor. The flue gas should be vented out into the environment through alkaline scrubber with mist eliminator attached with a chimney of at least 30 meters height. Plants to install adequate air pollution control devices (APCDs) for controlling flue gas emissions.
5. A compressor or any other suitable arrangement has to be made /installed for mixing of air with pyro water for ensuring proper burning while using pyro water/purge water during initial heating.
6. In order to control fugitive emissions from the reactor during operation, proper sealing should be ensured.
7. Excess pyro gas if any should be flared through properly designed flaring system of adequate capacity considering the emergency situation in which the entire gas may have to be flared. The flaring should be done at a minimum height of 30 m.
8. The collection of the oil from the condensers should be in a closed vessel and storage also should be in closed tanks with suitable vents. There should be no manual handling of oil. Transfer of oil should be through pumps.
9. The removal of char should be through a mechanized system. The unloading of char from the reactor is to be done under controlled conditions through a pneumatic /screw conveyor system in such a manner that the contents of the reactor are not open to the atmosphere at any point of time. The end of the conveyor system shall be attached to a bagging plant where all the char will be bagged in the HOPE bags with proper sealing. It should be ensured that no spillage taken place during the collection of the char in the bags. Moreover, an air-lock should be provided to ensure no entry of air into the reactor.
10. Water sprinklers to be installed at the transfer points for arresting fugitives.
11. The char generated in the process shall be utilized either in co-processing in the cement industry or its quality be upgraded to Recovered Carbon Black (RCB). RCB may be used as raw material for manufacture of new tyre and other processes.
12. Waste water (Pyro water/Purge water/Oil mixed water/oil water emulsion) generated during the process should not be discharged anywhere and;
13. TPO Units to ensure that treated water be re-used in the unit itself & there is zero effluent discharge.
14. The transportation of Char and Tyre Pyrolysis Oil (TPO) should strictly be done in closed vehicles to ensure that there is no spillage of char or oil during their transportation.
15. The generation, transportation and disposal of char to the cement manufacturing plants shall be recorded.
16. The Tyre Pyrolysis Oil (Product) and char shall be stored in areas separate / distinct from the processing area (shed where the reactors are installed). Tyres shall be stored in earmarked sheds/open area on a raised cement concrete platform.
17. The unit should carry out stack and ambient air quality monitoring for SO₂, PM, and CO at least once in six months from a recognized laboratory at identified monitoring location. The unit will maintain a log book for recording the plant operation, monitoring of the stack emissions and ambient air quality, generation & utilization of wastewater & sale of products and wastes.
18. Automatic control systems such as Programmed Logic Control (PLC) shall be adopted for measurement and control of temperature and pressure along with safety interlocks in case of increase of temperature or pressure to cut off heating of the reactor should be provide.
19. A sensor for CO gas to be installed in the working area to ensure that concentration of CO in the working area does not exceed the prescribed limits for occupational safety and health as per Factory Act 1948. It will also be coupled with a warning/alarm system so that the plant operator can take adequate steps to rectify the situation.
20. Sensors along with alarm system should be provided at all the transfer points throughout the plant to detect any leakage of flammable vapors from the system.
21. Excess pyro gas if any should be flared through properly designed flaring system of adequate capacity considering the emergency situation in which the entire gas may have to be flared. The flaring should be done at a minimum height of 30 meters.
22. Fire detectors, sprinklers and fire hydrant with necessary pumping system and water storage should be provided in the process area, product and raw material storage area.

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23. The TPO unit shall possess fire clearance certificates issued by concerned departments.
24. The safety instruction for safe operation of plant will be displayed at the gate, plant working area and other critical places. Further, training will be imparted to the workers for safe operation of these plants. On site emergency plan, as per the requirements under the Factories Act,1948, will be made and implemented to handle any accident, fire/leakage or any other emergency situation. All such measures shall include raw material storage, product storage and handling thereof.
25. The plant will be operated under the continuous supervision of a qualified person having experience of running such units. All the persons/workers in the premises should wear an air filter mask to avoid inhaling of the fine char particles.
26. Units will maintain good house-keeping and will ensure that no raw material products and wastes get spilled inside or outside the plant.
27. Units to carry out annual health check-up of all the employees working in the unit & submit its report to concerned SPCBs /PCCs on annual basis.
28. Units operators shall have insurance cover for workers, plant & machinery and materials.
29. Workers should be given mock drill exercise for fire hazard incident.
30. The Tyre Pyrolysis Units (Continuous and Advanced Batch Automated Pyrolysis) are categorized into Orange category. Unit to register on the Waste Tyre EPR Portal of CPCB.
31. The Tyre Pyrolysis Oil unit to fulfill fuel quality as specified by Ministry of Petroleum and Natural Gas / Bureau of Indian Standards as and when the same gets notified.
32. In line with the policy adopted by MoEF&CC, Unit shall not to import waste tyres for the purpose of TPO production. Unit to use only indigenous generated waste tyre (i.e. Waste tyre generated in India only). Also unit to sell its products to Actual Users only.
33. Unit to maintain record on consumption of waste tyre along with details of its procurement source, Details & quantity of products, details of actual users to whom products have been sold.
34. Unit to submit its annual report on the EPR Portal and also to the concerned SPCB providing details on annual production of TPO, Char, Steel & other products including details of sources of purchasing waste tyre and also details of actual users to whom products have been sold within the time frame as prescribed on the Portal. The annual report to be supported with electricity bills of the financial year for which annual return has been submitted.
35. Units have to report daily waste generation, disposal data on National Hazardous Waste Tracking system as and when such system gets implemented by CPCB.

Advisory conditions:-

1. Industry shall obtain NOC from CGWA for extraction of Ground water (if applicable).
2. The management shall install Digital Water meter with digital flow recording facilities for measurement of ground water consumption and provide its connectivity with server of Environment Surveillance Centre, M P Pollution Control Board Bhopal for remote surveillance.
3. The management shall provide Rain water harvesting for ground water conservation and recycle treated waste water for plantation and flushing in consultation with expert agency if find suitable).

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act,1974 , The Air (Prevention & Control of Pollution) Act,1981 and the Authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rule, 2016 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorization. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of
M.P. Pollution Control Board
By the order of Chairman, MPPCB



ACHYUT ANAND MISHRA
Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)
TPAV # BYJMHA08UC

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