

HALF YEARLY COMPLIANCE REPORT

AS PER CONDITION STIPULATED IN



ENVIRONMENTAL CLEARANCE

LETTER NO- J-11011/337/2013-IA II (I) DATED 15TH MAY 2015

COMPLIANCE PERIOD: APRIL 2020 TO SEPTEMBER 2020

For

**GLOBUS SPRITS LIMITED
120 KLPD GRAIN BASED DISTILLERY ALONG WITH
3.5 MW COGENERATION POWER PLANT**

AT

**PANAGARH INDUSTRIAL PARK, (WBIDC)
PANAGARH, PURBA BARDHAMAN,
WESTBENGAL**



PROJECT PROPONENT

**SHRI M. L. DUTTA, EXECUTIVE DIRECTOR
M/S GLOBUS SPIRITS, F-O, GROUND FLOOR, THE MIRA CORPORATE
SUITS, PLOT NO.1 & 2, ISHWAR NAGAR, MATHURA ROAD, NEW
DELHI-110065 Email:mld@globusgroup.in**

EC Compliance

Name of Project: 120 KLPD Grain Based Distillery along with 3.5 MW Cogeneration Power Plant at Panagarh Industrial Park (West Bengal Industrial Development Corporation Limited) Panagarh, District: Burdwan (West Bengal).

Environmental clearance Letter No. J-11011/337/2013-IA II (I) dated 15th May, 2015

Period of Compliance Report: April to September, 2020

Point wise compliance of conditions stipulated in EC vide letter No. -11011/337/2013 IA II (I) dated 15th May, 2015 are given as under: -

| S. No. | SPECIFIC CONDITIONS | COMPLIANCE STATUS |
|--------|---|---|
| i. | Distillery unit shall be based on Grain based only and no Molasses based distillery unit shall be operated. The unit will use bagasse if available. | Company has 120 KLPD Grain based distillery unit only. No Molasses based distillery unit will be installed without prior permission from MoEFCC. |
| ii. | ESP along with stack of adequate height shall be provided to husk/coal fired boiler to control particulate emission within 50 mg/Nm ³ . At no time, the emission levels should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. | <p>35 TPH Boiler has been provided with ESP with adequate stack height of 60 m to maintain PM emissions below permissible limits (i.e. 50 mg/Nm³).</p> <p>Particulate emissions are regularly checked (online) and data is directly sent to CPCB & SPCB.</p> <p>In event of failure of any pollution control system, it has been assured that the respective unit will not restart until the control measures are rectified to achieve the desired efficiency. The company is regularly monitoring the efficiency of pollution control devices.</p> <p>The photographs of ESP along with Stack and Online Stack Monitoring System have been enclosed as Annexure 1.</p> |
| iii. | In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemicals/ materials, multi cyclone separator & water | <p>Provided necessary control measures for checking fugitive emissions from all the vulnerable sources and the emissions are maintained under the limits specified by State Pollution Control Board.</p> <p>To control fugitive emissions following measures are adopted.</p> <p>i. The roads within the premises are concrete</p> |

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| | <p>sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area, etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits imposed by WBSPCB.</p> | <p>/ paved to avoid vehicular dust.</p> <ul style="list-style-type: none"> ii. All transportation vehicles carry a valid PUC (Pollution under Control) Certificate. iii. Proper servicing & maintenance of vehicles is carried out. iv. Regular sweeping of all the roads & floors is done. v. Regular water sprinkling system is provided at loading and unloading areas and road to control dust emissions. vi. In the work zone environment, product and raw materials storage area etc. is regularly maintained and provided with closed storage, & conveyance of materials are done by closed conveyors. vii. Adequate greenbelt shall be developed viii. in the plant area. Greenbelt acts as surface for settling of dust particles & thus will reduce the particulate matter in air. ix. Ambient air quality is regularly monitored. |
| <p>iv.</p> | <p>Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions.</p> | <p>Pucca approach road has been constructed from NH-2 to distillery unit. The area is constructed by West Bengal Industrial Development Corporation Limited.</p> <p>RCC roads are constructed within distillery to avoid fugitive emissions.</p> <p>The photographs of internal road of the industry have been enclosed as Annexure 2.</p> |
| <p>v.</p> | <p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p> | <p>One D.G. set of 1250 KVA is installed for the power backup. Stack height of the D.G. set is 8 m above nearest building as per CPCB norms. Also, acoustic enclosure is provided to the DG sets to mitigate the noise pollution.</p> <p>DG Set stack monitoring results report are enclosed as Annexure-3.</p> |

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| vi. | <p>The Company shall upload the status of compliance of the stipulated environmental clearance, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the regional office of MoEF. The respective Zonal office of CPCB and the WBSPCB. The levels of PM10, PM2.5, SO2, NOx, CO, HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate and at important public places.</p> | <p>Ambient air quality is being regularly monitored and regularly submitted to Zonal office of WBSPCB & CPCB.</p> <p>Ambient air quality results are displayed near the main gate of the company and on company notice board.</p> <p>The ambient air quality monitoring has been carried out on plant site and the monitoring results are enclosed as Annexure 4.</p> |
| vii. | <p>Total fresh water requirement from ground water source/ surface water supply shall not exceed 1205 m3/day for distillery and cogeneration unit and prior permission shall be obtained from the GWA/SGWA. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.</p> | <p>Total fresh water requirement for the project is 1205 KLD. The source of water is ground water from borewells. Permission for withdrawal of groundwater was obtained from Groundwater Resource Development Authority (West Bengal) vide letter No. 66491(30 m3/hr), 66718 (35 m3/hr), 66498 (35 m3/hr), 66717 (30 m3/hr).</p> |
| viii. | <p>Spent wash generation shall not exceed 6 KI/KI of alcohol. Spent wash shall be treated through decanter and concentrated in multi-effect evaporator (MEE) to form DWGS. DWGS will be sent to dryer to form DOGS. The spent less and condensate will be treated in UASBR followed by aerobic treatment and sand filtration /charcoal filtration. Treated effluent will be used for makeup water of cooling towers and water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB and recycle/reuse. Online water monitoring system shall be installed for important</p> | <p>Agreed</p> <p>Spent wash is below 720 KLD i.e., 6KI/KI of 120 KLD of alcohol production, Spent wash is taken through centrifuge decanters and thin slops from the decanter centrifuge are partly recycled back to process (30-35%) and partly taken to thins slops evaporation plant for concentration of remaining solids to form syrup. This syrup is also Mixed into the wet cake coming out of centrifuge and passes through steam tube bundle dryer which is used as cattle feed.</p> <p>ETP of latest design to meet norms prescribed by CPCB/SPCB is constructed to treat spent lees, MEE condensate and Utilities waste water and after</p> |

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| | parameters. | <p>confirming to standards prescribed by CPCB/SPCB, treated effluent will be recycled/reused within the factory premises.</p> <p>No effluent is being discharged outside the Distillery plant premises and Zero Effluent discharge condition is being followed.</p> <p>Decanter, multi-effect evaporator and dryer are installed to achieve zero discharge.</p> <p>Online camera & flow meter has been installed by the company which is connected with the CPCB server.</p> |
| ix. | Automatic /online monitoring system (24 x 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website. | <p>Continuous online monitoring system for stack emissions has already been installed by the Company which is connected with the SPCB & CPCB server.</p> <p>Compliance data is available on the Company's website.</p> |
| x. | No effluent from distillery and cogeneration power plant shall be discharged outside the factory premises and 'Zero' effluent discharge concept shall be adopted. | <p>The waste water from distillery and co-generation power plant is treated in effluent treatment plant and multi effect evaporator.</p> <p>Treated water is recycled/reused for various industrial purposes and gardening. Plant is completely based on 'Zero' effluent discharge.</p> |
| xi. | Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. | <p>Agreed.</p> <p>Process effluent/any wastewater shall not be allowed to mix with storm water. The effluent will be directed sent to ETP and after treatment will be recycled and reused in plant operations.</p> <p>Storm water is passed through guard pond through storm water drains in factory premises.</p> |
| xii. | Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis | <p>The ground water quality regularly monitoring by piezometer in an around the industry and its premises.</p> <p>Sampling and trend analysis monitoring is being</p> |

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| | <p>monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office at Bhubaneshwar and WBSPCB.</p> | <p>carried out regularly and submitted to Ministry & WBPCB. Groundwater analysis report is enclosed as Annexure-5.</p> <p>5 nos. of piezometers are installed by the Company.</p> |
| xiii. | <p>No storage of wet cake shall be done at site to avoid odour problem. An additional dryer shall be installed so that at any time wet cake is not sold then wet cake shall be converted into dry cake by operating additional dryer.</p> | <p>Wet cake is not stored in the plant. Wet cake is processed by following ways:</p> <ul style="list-style-type: none"> • Distillers Wet Grain Soluble (DWGS) Drier (steam tube bundle drier) is set up. • Wet cake / DWGS (211 MT/Day) is passed through steam tube bundle drier for drying into cake with 10-12% moisture (max.) to give higher shelf life. • Solid dry cakes (DDGS -75 MT/Day) are finally obtained. <p>Hence there is no odour problem.</p> |
| xiv. | <p>Coal storage shall be done in such a way that it does not get air borne or fly around due to wind. For this, it shall be kept in wet form.</p> | <p>Agreed.</p> <p>The coal storage area kept in separate place and it does maintain for moisture. Also, adequate prevention is adopted for wind blow air borne dust.</p> |
| xv. | <p>Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided.</p> | <p>Fly ash from rice husk/coal is stored in closed silos. Fly ash from the plant is supplied to the brick manufacturers in closed bulkers.</p> <p>MoU with brick manufacturing units for fly ash utilization have been obtained.</p> |
| xvi. | <p>Fire fighting system shall be as per norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol</p> | <p>Fire fighting facility is provided in alcohol storage and handling area as per norms. Provision of Foam System for fire fighting to control fire from the alcohol storage tank is provided.</p> |

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| | storage tank. | |
| xvii. | Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bhubaneshwar within six months. | Agreed Risk assessment has been carried out to assess the fire and explosion risk due to storage of alcohol. |
| xviii. | Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately. | Occupational health surveillance programme is taken as a regular exercise for all the employees and their records maintained. <ul style="list-style-type: none"> • In order to ensure good health of workers, regular health check-up of the plant workers is carried out. • Proper storage and handling precautions are taken. The storage area is kept cool, dry and well ventilated away from any source of heat, flame or oxidizers • Use of Personal Protective Equipment (PPEs) is exercised. Proper training on use of PPEs, characteristics of the material handled and safety precautions adopted are given to the workers. • Fire safety measures are incorporated within the factory premises. All the fire extinguishing media such as water, dry chemicals, CO2, sand, dolomite etc. is kept in vital locations. • Mock drills are arranged for the workers to test the effectiveness of the training program from time to time and the way to react in case of emergency. • Safety precautions are displayed in the premises on the banners, boards etc. • Both On-site & Off-site emergency |

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| | | preparedness plan is proposed. |
| xix. | Dedicated parking facility for loading and unloading of material shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road. | Dedicated parking facility for loading and unloading of material is provided in the factory premises. Good traffic management system is adopted for incoming and outgoing vehicles in the factory premises. Safety precautions is displayed in the premises on the banners, boards etc. |
| xx. | As proposed, green belt over 33 % of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO. | Total project area is 18.81 acre under which 6.2 acres area (about 33%) is marked for greenbelt development area of 10 m width, wherever possible. Saplings of local species for plantation purposes after consultation with DFO and nearest gram panchayet are taken. The photographs showing greenery of the industry premises is enclosed as Annexure 6. |
| xxi. | All the commitment made regarding issues raised during the Public Hearing/consultation meeting held on 28th November, 2014 shall be satisfactorily implemented. | Agreed The company has already implemented the commitments made against the issues raised during public hearing and implementing other commitments as well. |
| xxii. | At least 5 % of the total cost of the project shall be earmarked towards the Enterprise social responsibility based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhubaneshwar. Implementation of such program shall be ensured accordingly in a time bound manner. | Company has adopted the nearby village where efforts are made to bring need-based development. Free drinking water is provided during summers and medical check-up" camps are organized. CSR plan is being carried out in consultation with local bodies to understand the local needs and accordingly ESC plan is under implementation. |
| xxiii. | Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and | The condition is not applicable at this moment as the construction work of the project has already been completed and now it is in operation. |

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| | <p>facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.</p> | |
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General Conditions

| S. No. | GENERAL CONDITIONS | COMPLIANCE STATUS |
|--------|--|--|
| i. | <p>The project authorities must strictly adhere to the stipulations made by the West Bengal State Pollution Control Board (WBSPCB), State Government and any other statutory authority.</p> | <p>Company is complying and in process to comply the condition stipulated by WBPCB and state government. NOC from WBPCB obtained vide communication No.2535-5/WPBD-NOC (5586)/14 dated 24.09.2014 and CTO vide communication No. C0107510 dated 28.02.2017 was obtained which is valid up to 31.07.2021. Copy of the latest CTO has been enclosed as Annexure- 7.</p> |
| ii. | <p>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p> | <p>Complied. If further expansion or modifications is required, prior approval of the Ministry of Environment, Forest and Climate Change will be taken. Company has obtained ToR vide letter No. J-11011/155/2017-IA-II (I) dated 06.11.2017 for the expansion of the Grain based distillery from 120 KLPD to 240 KLPD and Co-gen by 3.5 to 8 MW within existing premises.</p> |
| iii. | <p>The locations of ambient air quality monitoring stations shall be decided in consultation with the West Bengal State Pollution Control Board (WBSPCB) and it shall be ensured that at least one station is installed in the upwind and</p> | <p>Agreed. Four numbers of Ambient Air Quality Monitoring Stations are provided in consultation with West Bengal State Pollution Control Board.</p> |

| S. No. | GENERAL CONDITIONS | COMPLIANCE STATUS |
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| | downwind direction as well as where maximum ground level concentrations are anticipated. | The result of ambient air quality monitoring is enclosed as Annexure 4 |
| iv. | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). | The noise level within the factory premises is regularly monitored and it is maintained within ambient noise levels standards prescribed by CPCB. |
| v. | The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water. | Rain-water harvesting pit and storm water drain constructed for conserving the water. Storm water drains are regularly clean-up. Presently, the company is collecting the rainfall run-off generated from rooftops in a pond. |
| vi. | During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains. | Complied. Constructed garland drains to avoid mixing of accidental spillages with domestic wastewater & storm water drains. |
| vii. | Usage of Personnel Protection Equipment by all employees/ workers shall be ensured. | Personnel Protection Equipment (PPEs) are used as per Factories Act. Proper training Programme on use of PPEs, characteristics of the material handled and safety precautions is arranged regularly. |
| viii. | Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. | Regular training is being given to employees on handling of chemicals and safety aspect. The Truck driver and daily wages worker have arranged training regarding safety norms and common environmental issues on regular basis. |
| ix. | The company shall also comply with all the environmental protection measures and | The company is complying with all the environmental protection measures and |

| S. No. | GENERAL CONDITIONS | COMPLIANCE STATUS |
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| | safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented. | safeguards proposed in the project report submitted to the Ministry. <ul style="list-style-type: none"> • ESP has been provided for the stack of Co-gen plant. • MEE has been provided for reducing the spent wash. • Effluent Treatment Plant is in place. • Greenbelt has been developed • Water sprinkling system has been provided for controlling the fugitive emissions. Regular environmental quality monitoring is being carried out. |
| x. | The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area. | 5% of the total project cost are earmarked for 5 years plan towards various activities covered under Enterprise Social Commitment. |
| xi. | The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. | Following activities are taken under CSR: <ul style="list-style-type: none"> • Provision of safe drinking water facilities. • Medical facilities • Plantation in nearby areas. • Infrastructure development. • Education to the underprivileged. |
| xii. | A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. | Globus Spirits Limited has an environmental management cell with well-equipped lab and experts for monitoring the EMP and that monitors the impact on environment and effectiveness of safeguards provided. |
| xiii. | The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management pollution control measures shall | The funds earmarked for environmental protection measures are kept in a separate account and never spent on other purposes. Fund allotment for EMP is enclosed as Annexure 8. |

| S. No. | GENERAL CONDITIONS | COMPLIANCE STATUS |
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| | not be diverted for any other purpose. | |
| xiv. | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal. | After obtaining of environmental clearance a copy of the clearance letter was already sent to concerned Panchayat, Zila Parishad/Municipal Corporation. No suggestions / representations received from concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO. |
| xv. | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the West Bengal State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company. | Complied. Six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Regional Office of MoEFCC, the respective Zonal Office of CPCB and the West Bengal State Pollution Control Board are being regularly submitted. |
| xvi. | The environmental statement for each financial year ending 31st March in Form- V as is mandated shall be submitted to the West Bengal Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bhopal Regional Offices of MoEF by e-mail. | The company submits the ESR report for every financial year on timely basis. |
| xvii. | The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at | The company has already published the accordance of Environmental Clearance in two local newspapers. Copy of the same has been enclosed as Annexure 9 . |

| S. No. | GENERAL CONDITIONS | COMPLIANCE STATUS |
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| | <p>Website of the Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p> | |
| xviii. | <p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p> | Compiled. |



Annexure-I

Annexure - 1

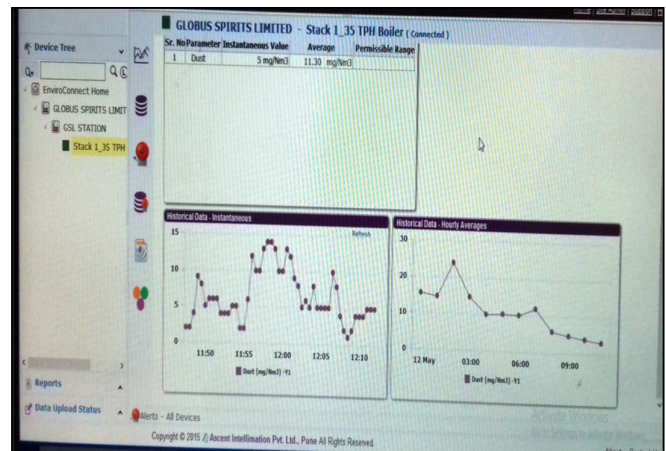
Existing ESP & Online Stack Monitoring System for existing boiler stack



Electrostatic Precipitator attached to Stack



Online Stack Monitoring System



Annexure-II

Concrete road with in Plant



Annexure-III



TEST REPORT

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| Name & Address Of the Customer : M/s. Globas Spirit Limited. Panagarh Industrial Area, Panagarh, Burdwan. | Report No. : QLS/P-20/20-21/C/13 Date : 14.10.2020 Sample No. : QLS/P-20/20-21/13 Sample Description : Stack Flue Gas Ref No. Date : Verbal Confirmation |
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Analysis Result

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| Date & Time of Sampling : 25.09.2020 at 12.30 P.M. Sampling done by : S.Ghosh | Sampling Procedures : EPA/IS | | |
| A : General Information of Stack: | | | |
| 1 Stack connected to | : DG (1250 kVA) | | |
| 2 Emission due to | : Burning of H.S.D. | | |
| 3 Material of construction of Stack | : MS | | |
| 4 Shape of Stack | : Circular | | |
| 5 Whether stack is provided with permanent platform | : Yes | | |
| 6 Generation Capacity | : 1250 kVA | | |
| B : Physical Characteristic of Stack: | | | |
| 1 Height of Stack from ground level | : 6.0 m | | |
| 2 Diameter of Stack at bottom | : --- | | |
| 3 Diameter of Stack at sampling point | : 0.24 m | | |
| 4 Height of the sampling point from ground level | : 6.0 m | | |
| 5 Area of Stack | : 0.1075 m ² | | |
| C : Analysis/Characteristic of Stack: | | | |
| 1 Fuel used : H.S.D. | | 2. Fuel consumption : 251 Lit/hr. | |
| D : Results of Sampling & Analysis of gaseous Emission: | | | |
| | RESULT | METHOD | Limit |
| 1 Temperature of emission (°C) | : 211 | EPA Part 2 | --- |
| 2 Barometric pressure (mm of Hg) | : 758 | EPA Part 2 | --- |
| 3 Velocity of gas (m/sec) | : 15.15 | EPA Part 2 | --- |
| 4 Quantity of gas flow (Nm ³ /hr) | : 1523 | EPA Part 2 | --- |
| 5 Concentration of Carbon monoxide (g/kw-hr.) | : 0.163 | IS:13270-1992, Reaf : 2014 | 3.5 |
| 6 Concentration of Carbon dioxide (g/kw-hr.) | : 180.93 | IS:13270-1992, Reaf : 2014 | --- |
| 7 Concentration of Sulphur dioxide (g/kw-hr.) | : 0.022 | EPA Part-6 | --- |
| 8 Concentration of Oxide of Nitrogen (g/kw-hr.) | : 0.039 | EPA Part-7 | 7.5 |
| 9 Concentration of Particulate Matter (g/kw-hr.) | : 0.094 | EPA Part-5 | 0.3 |
| E : Pollution Control Device : | | | |
| Details of pollution control devices attached with the stack | : Nil | | |
| F : Remarks: | | | |

for Qualissure Laboratory Services
Reviewed & Authorised By

Bhaskar



(Authorized Signatory)

- The results relate only to the item(s) tested.
- This Test Report shall not be reproduced without the permission of Qualissure Laboratory Services
- The reserved part of sample(s). except perishable sample(s), shall be retained for 30 days from the date of issue of the Test Report



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

QUALISSURE LABORATORY SERVICES

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

361, PRANTICK PALLY, 45/361, BOSE PUKUR ROAD, KASBA, KOLKATA, WEST BENGAL, INDIA

in the field of

TESTING

Certificate Number: TC-6271

Issue Date: 24/10/2019

Valid Until:

23/10/2021

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



Memo No.- 147 -5/WPB-S/99((Part-V)

Date: 31.12.2019.

ORDER

In exercise of power conferred under section 17 (2) of the Water (Prevention and Control of Pollution) Act 1974 and under section 17(2) of the Air (Prevention and Control of Pollution) Act 1981, the West Bengal Pollution Control Board (hereinafter referred as the "State Board") is pleased to recognize the following laboratories for the purposes of environmental monitoring.

The recognition accorded is subject to the terms and conditions as stated in this order are solely for specific analysis/test of specific samples.

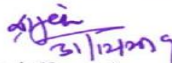
The validity of recognition of the following laboratories is being awarded for a **period of two years (w.e.f. 1st January 2020 to 31st December 2021** for the parameters as tabulated below:

| | | |
|----|--|---|
| 19 | M/s Qualissure Laboratory Services 361, Prantik Pally, 45/361, Bose Pukur Road, Kolkata- 700107 Mobile: 9831287086 | <p>Group-A₁ (Ambient air): NO₂, SO₂, PM₁₀, PM_{2.5}, NH₃, O₃, Pb, As, Ni</p> <p>Group-A₂ (Fugitive Emission): TSPM</p> <p>Group-A₃ (Meteorological monitoring): Ambient temperature, Wind direction, Wind speed, Relative humidity, Rain fall</p> <p>Group-A₄ (Stack gas/ source emission): Particulate Matter, SO₂, Velocity & flow, CO₂, CO, Temperature, O₂, Oxides of nitrogen, Ammonia</p> <p>Group-A₅ (Noise monitoring): Ambient Noise (Leq, Lmax, Lmin), Noise source measurement</p> <p>Group-B₁ (Physical tests): Conductivity, Colour, pH, Fixed & volatile solids, Total solids, TDS, TSS, Turbidity, Temperature, Odour, Salinity, Settleable solids, SVI</p> <p>Group-B₂ (Inorganic- general and non-metallic): Acidity, Alkalinity, Ammoniacal nitrogen, Chloride, DO, Hardness (Total & Ca), TKN, NO₂-Nitrogen, NO₃-Nitrogen PO₄, Sulphate, Chlorine demand, Silica, Sulphide</p> <p>Group-B₃ (Inorganic- metals): B, Cd, Ca, Cr⁺⁶, Total Cr, Cu, Fe, Pb, Mg, Hg, Ni, Zn, As, Al, Mn, Se, Sn, K, Na, SAR</p> <p>Group-B₄ (Organics – general & trace organics): BOD, COD, O&G, Phenols, Surfactants</p> <p>Group-B₅ (Microbiological tests): Total Coliform, Fecal Coliform, E-coli, Total plate count</p> <p>Group-B₆ (Toxicological tests): Bio assay</p> <p>Group-B₈ (Characterization of Hazardous waste): Corrosivity, Ignibility, Measurement of Heavy metals in the waste</p> <p>Group-B₉ (Soil/ sludge/sediment and solid wastes): B, Cation exchange capacity, EC, Nitrogen available, Organic Carbon/matter (chemical method), pH, Phosphorous (available), PO₄ (Ortho), Total Phosphate, K, SAR in soil extract, Na, Soil moisture, TKN, Ammonia, Bicarbonate, Ca, Calcium carbonate, Chloride, Exchangeable sodium percentage (ESP), Mg, Mechanical soil analysis, NO₃, NO₂, Potash (available), Sulphate, Sulphur, Total water soluble salt, Water holding capacity, Heavy metals</p> |
|----|--|---|

The recognition may be revoked, withdrawn or suspended apart from invoking other legal proceedings under extant laws in case of violation of the following terms & conditions:

- Any change of address or change of laboratory facilities should be informed to the State Board within fifteen (15) days of closure of activity at the address at which recognition is awarded.
- Information on any kinship or any relation of any laboratory owner with any Board employee must be disclosed to the State Board.
- If it is found that the concerned laboratory is not equipped with proper facilities and infrastructure to execute the test/analysis.
- In case of any other activity unlawful under the law of the land, recognition may also be withdrawn.

This order has been issued as per the approval of competent authority.


(Dr. Rajesh Kumar)
Member Secretary, WBPCB

Annexure-IV



DOC NO : QLS/SAMP/08-A/00

TEST REPORT

| | | |
|---|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/01 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/01 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Village- Arijinpur | | Date of sampling : 05-06.09.2020 | | |
|--|--|---|-------------------|------------------------------------|
| Sampling Done by: J.Sahana | | Sampling done as per : CPCB Guidelines (Volume-1) | | |
| Environment Condition : Clear & Sunny | | Average Temperature : 29°C | | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 93 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 55 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 6.8 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 34.7 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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Reviewed & Authorised By



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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

| | | |
|--|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited. Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/02 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/02 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Village- Chandipur | | Date of sampling : 05-06.09.2020 | | |
|--|--|---|-------------------|------------------------------------|
| Sampling Done by: S.Ghosh | | Sampling done as per : CPCB Guidelines (Volume-1) | | |
| Environment Condition : Clear & Sunny | | Average Temperature : 29°C | | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | IS: 5182 (Part-23)-2017 |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 84 | 100 | USEPA CFR-40,Part-50, Appendix-L |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 49 | 60 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 6.9 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 34.8 | 80 | IS: 5182 (Part-23)-2017 |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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TEST REPORT

| | | |
|--|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited. Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/03 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/03 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Village- Kotagram | | | Date of sampling : 04-05.09.2020 | |
|--|--|--------|---|------------------------------------|
| Sampling Done by: J.Sahana | | | Sampling done as per : CPCB Guidelines (Volume-1) | |
| Environment Condition : Clear & Sunny | | | Average Temperature : 29°C | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 96 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 57 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 7.7 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 36.6 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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TEST REPORT

| | | |
|--|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited. Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/04 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/04 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Project Site | | Date of sampling : 03-04.09.2020 | | |
|--|--|---|-------------------|------------------------------------|
| Sampling Done by: J.sahana | | Sampling done as per : CPCB Guidelines (Volume-1) | | |
| Environment Condition : Clear & Sunny | | Average Temperature : 29°C | | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 112 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 65 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 8.8 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 44.3 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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Bhaskar



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TEST REPORT

| | | |
|---|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/05 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/05 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Village- Arijinpur | | Date of sampling : 23-24.09.2020 | | |
|--|--|---|-------------------|------------------------------------|
| Sampling Done by: J.Sahana | | Sampling done as per : CPCB Guidelines (Volume-1) | | |
| Environment Condition : Partly Cloudy | | Average Temperature : 29°C | | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 92 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 58 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 7.0 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 36.8 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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TEST REPORT

| | | |
|---|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/06 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/06 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Village- Chandipur | | Date of sampling : 23-24.09.2020 | | |
|--|--|---|-------------------|------------------------------------|
| Sampling Done by: J.Sahana | | Sampling done as per : CPCB Guidelines (Volume-1) | | |
| Environment Condition : Partly Cloudy | | Average Temperature : 29°C | | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 85 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 51 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 6.7 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 35.5 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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DOC NO : QLS/SAMP/08-A/00

TEST REPORT

| | | |
|---|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/07 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/07 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Village- Kotagram | | | Date of sampling : 23-24.09.2020 | |
|--|--|--------|---|------------------------------------|
| Sampling Done by: J.Sahana | | | Sampling done as per : CPCB Guidelines (Volume-1) | |
| Environment Condition : Partly Cloudy | | | Average Temperature : 29°C | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 105 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 58 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 7.2 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 36.6 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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TEST REPORT

| | | |
|--|--------------------|-----------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited. Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/08 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/08 |
| | Sample Description | : Ambient Air |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Location : Project Site | | | Date of sampling : 24-25.09.2020 | |
|--|--|--------|---|------------------------------------|
| Sampling Done by: J.Sahana | | | Sampling done as per : CPCB Guidelines (Volume-1) | |
| Environment Condition : Clear & Sunny | | | Average Temperature : 28°C | |
| Sl. No. | Pollutants | Result | Limit as per CPCB | Method of Test Reference |
| 1 | Particulate matter (PM ₁₀) in µg/m ³ | 116 | 100 | IS: 5182 (Part-23)-2017 |
| 2 | Particulate matter (PM _{2.5}) in µg/m ³ | 68 | 60 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO ₂) in µg/m ³ | 9.2 | 80 | IS: 5182 (Part-2)-2001,(RA-2017) |
| 4 | Nitrogen dioxide (NO ₂) in µg/m ³ | 41.8 | 80 | IS: 5182 (Part- 6)-2001, (RA-2017) |
| NOTE: Limit as per CPCB notification, New Delhi, 18th November 2009, for Ambient air quality. | | | | |

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Annexure-V



TEST REPORT

| | | |
|---|--------------------|------------------------|
| Name & Address Of the Customer : M/s. Globas Spirit Limited Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/09 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/09-10 |
| | Sample Description | : Ground Water |
| | Sample Drawn On | : 24.09.2020 |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Sl. No. | Test Parameter | Test Method | IS 10500:2012 | | Result | |
|---------|---|---|------------------|-------------------|--------------------|---------------|
| | | | Acceptable Limit | Permissible Limit | Project Site (GW1) | Pondali (GW2) |
| 1. | Colour in Hazen Units | IS 3025 (Part 4): 1983 (RA 2012) | 5 | 15 | <1.0 | 2.0 |
| 2. | pH Value at 25°C | IS 3025 (Part 11): 1984 (RA 2012) | 6.5-8.5 | No Relaxation | 7.45 | 7.28 |
| 3. | Turbidity in NTU | IS 3025 (Part 10): 1984 (RA 2012) | 1 | 5 | <1.0 | <1.0 |
| 4. | Conductivity in $\mu\text{S}/\text{cm}$ at 25°C | IS 3025 (Part 14)- 1984 RA: 2017 | ---- | ---- | 463 | 406 |
| 5. | Total Dissolved Solids (as TDS) in mg/l | IS 3025 (Part 16): 1984 (RA 2012) | 500 | 2000 | 264 | 236 |
| 6. | Calcium(as Ca) in mg/l | IS 3025 (Part 40): 1991(RA 2014) | 75 | 200 | 42.2 | 27.6 |
| 7. | Chloride(as Cl) in mg/l | IS 3025 (Part 32): 1988 (RA 2014) | 250 | 1000 | 19.6 | 33.1 |
| 8. | Fluoride(as F) in mg/l | IS 3025 (Part 60): 2008(RA 2013) | 1.0 | 1.5 | 0.41 | 0.36 |
| 9. | Iron (as Fe) in mg/l | IS 3025 (Part 53): 1988(RA 2014) | 1.0 | No Relaxation | 0.14 | 0.18 |
| 10. | Sodium (as Na) in mg/l | IS 3025 (Part 45)-1993 RA: 2014 | --- | --- | 17.0 | 21.0 |
| 11. | Potassium (as K) in mg/l | IS 3025 (Part 45)-1993 RA: 2014 | --- | --- | 5.0 | 9.0 |
| 12. | Bicarbonate (as HCO_3) in mg/l | IS : 3025 (Part-51) | --- | --- | 154 | 129 |
| 13. | Magnesium(as Mg) in mg/l | IS 3025 (Part 46): 1994(RA 2014) | 30 | 100 | 4.92 | 8.88 |
| 14. | Nitrate (as NO_3) in mg/l | IS 3025 (Part 34): 1988(RA 2014) | 45 | No Relaxation | 2.8 | 3.7 |
| 15. | Phenolic Compound (as $\text{C}_6\text{H}_5\text{OH}$) in mg/l | IS 3025 (Part 43)-1992 RA: 2014 | 0.001 | 0.002 | <0.001 | <0.001 |
| 16. | Hexavalent Chromium (as Cr+6) in mg/l | IS 3025 (Part 52) – 2014 | --- | --- | <0.05 | <0.05 |
| 17. | Sulphate (as SO_4) in mg/l | IS 3025 (Part 24): 1986 (RA 2014) | 200 | 400 | 24.8 | 30.5 |
| 18. | Alkalinity(as CaCO_3)in mg/l | IS 3025 (Part 23): 1986(RA 2014) | 200 | 600 | 120 | 102 |
| 19. | Total Hardness (as CaCO_3) in mg/l | IS 3025 (Part 21): 2013 | 200 | 600 | 126 | 106 |
| 20. | Arsenic(as As) in mg/l | IS 3025 (Part 37): 1988 (RA 2014) | 0.01 | No Relaxation | <0.01 | <0.01 |
| 21. | Chemical Oxygen Demand (as COD) mg/l | APHA 23 rd Edition-2017, 5220B | --- | --- | 19.2 | 38.4 |
| 22. | Biochemical Oxygen Demand (as BOD) mg/l | IS 3025 (Part 44)-1993, RA:2014 | --- | --- | 5.4 | 6.2 |

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TEST REPORT

| | | |
|---|--------------------|------------------------|
| Name & Address Of the Customer : M/s. –Globas Spirit Limited. Panagarh Industrial Area, Panagarh, Burdwan. | Report No. | : QLS/P-20/20-21/C/11 |
| | Date | : 14.10.2020 |
| | Sample No. | : QLS/P-20/20-21/11-12 |
| | Sample Description | : Ground Water |
| | Sample Drawn On | : 24.09.2020 |
| | Ref No. Date | : Verbal Confirmation |

Analysis Result

| Sl. No | Test Parameter | Test Method | IS 10500:2012 | | Result | |
|--------|---|---|------------------|-------------------|----------------|---------------|
| | | | Acceptable Limit | Permissible Limit | Panagarh (GW3) | Dharala (GW4) |
| 1. | Colour in Hazen Units | IS 3025 (Part 4): 1983 (RA 2012) | 5 | 15 | <1.0 | <1.0 |
| 2. | pH Value at 25°C | IS 3025 (Part 11): 1984 (RA 2012) | 6.5-8.5 | No Relaxation | 7.62 | 7.34 |
| 3. | Turbidity in NTU | IS 3025 (Part 10): 1984 (RA 2012) | 1 | 5 | <1.0 | <1.0 |
| 4. | Conductivity in $\mu\text{S}/\text{cm}$ at 25°C | IS 3025 (Part 14)- 1984 RA: 2017 | ---- | ---- | 610 | 629 |
| 5. | Total Dissolved Solids (as TDS) in mg/l | IS 3025 (Part 16): 1984 (RA 2012) | 500 | 2000 | 348 | 352 |
| 6. | Calcium(as Ca) in mg/l | IS 3025 (Part 40): 1991(RA 2014) | 75 | 200 | 42.8 | 52.3 |
| 7. | Chloride(as Cl) in mg/l | IS 3025 (Part 32): 1988 (RA 2014) | 250 | 1000 | 26.5 | 37.2 |
| 8. | Fluoride(as F) in mg/l | IS 3025 (Part 60): 2008(RA 2013) | 1.0 | 1.5 | 0.55 | 0.49 |
| 9. | Iron (as Fe) in mg/l | IS 3025 (Part 53): 1988(RA 2014) | 1.0 | No Relaxation | 0.12 | 0.21 |
| 10. | Sodium (as Na) in mg/l | IS 3025 (Part 45)-1993 RA: 2014 | --- | --- | 38.0 | 24.0 |
| 11. | Potassium (as K) in mg/l | IS 3025 (Part 45)-1993 RA: 2014 | --- | --- | 10.0 | 12.0 |
| 12. | Bicarbonate (as HCO_3) in mg/l | IS : 3025 (Part-51) | --- | --- | 242 | 198 |
| 13. | Magnesium(as Mg) in mg/l | IS 3025 (Part 46): 1994(RA 2014) | 30 | 100 | 14.64 | 3.18 |
| 14. | Nitrate (as NO_3) in mg/l | IS 3025 (Part 34): 1988(RA 2014) | 45 | No Relaxation | 4.92 | 6.23 |
| 15. | Phenolic Compound (as $\text{C}_6\text{H}_5\text{OH}$) in mg/l | IS 3025 (Part 43)-1992 RA: 2014 | 0.001 | 0.002 | <0.001 | <0.001 |
| 16. | Hexavalent Chromium (as Cr+6) in mg/l | IS 3025 (Part 52) – 2014 | --- | --- | <0.05 | <0.05 |
| 17. | Sulphate (as SO_4) in mg/l | IS 3025 (Part 24): 1986 (RA 2014) | 200 | 400 | 39.5 | 46.2 |
| 18. | Alkalinity(as CaCO_3) in mg/l | IS 3025 (Part 23): 1986(RA 2014) | 200 | 600 | 198 | 162 |
| 19. | Total Hardness (as CaCO_3) in mg/l | IS 3025 (Part 21): 2013 | 200 | 600 | 168 | 144 |
| 20. | Arsenic(as As) in mg/l | IS 3025 (Part 37): 1988 (RA 2014) | 0.01 | No Relaxation | <0.01 | <0.01 |
| 21. | Chemical Oxygen Demand (as COD) mg/l | APHA 23 rd Edition-2017, 5220B | --- | --- | 41.6 | 19.2 |
| 22. | Biochemical Oxygen Demand (as BOD) mg/l | IS 3025 (Part 44)-1993, RA:2014 | --- | --- | 7.2 | 5.8 |

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Annexure-VI







Annexure-VII

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan',
Bldg. No. - 10A, Block-LA, Sector-III,
Salt Lake City, Kolkata-700 098



Consent Letter Number : **C0107510**

Memo Number : **301-dp-co-8/16/0122**

Date : **08.02.2017**

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to :

**M/s. Globus Spirits Ltd. at Panagarh Industrial Park, Vill & P.O:
Kotagram, P.S: Bud Bud, Dist. Burdwan, Pin - 713148.**

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at **Panagarh Industrial Park,
Vill & P.O: Kotagram, P.S: Bud Bud, Dist. Burdwan, Pin - 713148.**

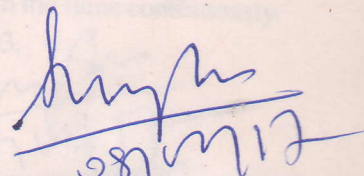
(Detailed address of the manufacturing unit)

for a period from **date of issue** to **31/07/2021**

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

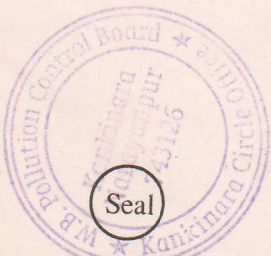
The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

Dr. Somnath Narayan
Senior Environmental Engineer
Kankinara Circle Office
W.B., Pollution Control Board

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst.Env.Engr.)



ANNEXURE

Consent to M/s. Globus Spirits Ltd.,
 for its unit at Panagarh Industrial Park, Vill & P.O: Kotagram, P.S: Bud Bud,
Dist. Burdwan, Pin - 713148.

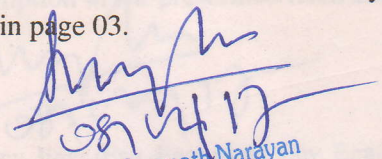
Conditions :

01. This Consent is valid for the manufacture of :-

| Sl. No. | Name of major products and by-products | Quantity manufactured per month |
|---------|--|--|
| 01 | Industrial Alcohol-RS & ENA | 120 KLD |
| 02 | DDGS | 75 TPD |
| 03 | CO ₂ (Gas) | 60 TPD |
| 04 | | |
| 05 | | |
| 06 | | |
| 07 | | |
| 08 | | |
| 09 | | |
| 10 | | |
| 11 | | |
| 12 | | |

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed KL.
04. Daily discharge of domestic liquid effluent shall not exceed KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed KL.
06. The *Applicant* shall discharge liquid effluent to (place of discharge) through nos. outlets/outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)


 Dr. Somnath Narayan
 Senior Environmental Engineer
 Bahinara Circle Office
 W.B., Pollution Control Board

Consent to M/s. Globus Spirits Ltd.,
 for its unit at Panagarh Industrial Park, Vill & P.O: Kotagram, P.S: Bud Bud,
Dist. Burdwan, Pin - 713148.

Table - I

| Outlet No. | Nature of effluent | Parameters | Standard | Frequency of effluent sampling |
|------------|--------------------|--|-----------------------|--------------------------------|
| | | pH | Between : | |
| | | Total Suspended Solids | Not to exceed : mg/1. | |
| | | Biochemical Oxygen Demand (3day at 27°C) | Not to exceed : mg/1. | |
| | | Chemical Oxygen Demand | Not to exceed : mg/1. | |
| | | Oil & Grease | Not to exceed : mg/1. | |
| | | | | |
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Cess Paying

09. The Applicant falls in the Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. **Daily** water consumption for the following purposes should not exceed :-
- Industrial cooling, spraying in mine pits and boiler feed water →KL
 (Water used for gardening should be included in this category of use)
 - Domestic purpose → **10.0**KL
 - Processing whereby water gets polluted and the pollutants are easily biodegradable → **1205.0**KL
 - Processing whereby water gets polluted and the pollutants are not easily biodegradable → -KL

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

[Handwritten Signature]
 08/07/17

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

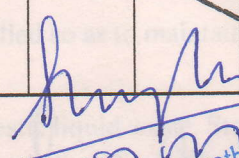
Dr. Somnath Narayan
 Senior Environmental Engineer
 Kankinara Circle Office
 W.B., Pollution Control Board

Consent to M/s. Globus Spirits Ltd.,
 for its unit at Panagarh Industrial Park, Vill & P.O: Kotagram, P.S: Bud Bud,
Dist. Burdwan, Pin - 713148.

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the Standard as given in Table-II below.

Table-II

| Stack No. | Stack height from G.L. (in mts.) | Stack attached to (sources and control system, if any): | Volume Nm ³ /hr | Velocity of gas emission m/sec | Concentrations of parameters not to exceed | | | | Frequency of emission sampling |
|-----------|----------------------------------|---|----------------------------|--------------------------------|--|--------------------|---|---|--------------------------------|
| | | | | | SPM (mg/Nm ³) | CO (% v/v) | | | |
| S-1 | 60.0 | Flusk Fired Boiler (01) - 35 TPH | | | 50 at 10 | 12%CO ₂ | - | - | Half-yearly |
| S-2 | 10.0 | D.G.set (1x 750 KVA) | | | - | - | | | |
| S-3 | 11.0 | D.G.set (1x1250 KVA) | | | - | - | | | |
| S-4 | | | | | | | | | |
| S-5 | | | | | | | | | |
| S-6 | | | | | | | | | |
| S-7 | | | | | | | | | |
| S-8 | | | | | | | | | |
| S-9 | | | | | | | | | |
| S-10 | | | | | | | | | |


 D. Somnath Nargyan
 Senior Environmental Engineer
 Burdwan Circle Office
 W.B., Pollution Control Board
 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Consent to M/s. Globus Spirits Ltd.,
 for its unit at Panagarh Industrial Park, Vill & P.O: Kotagram, P.S: Bud Bud,
Dist. Burdwan, Pin - 713148.

14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
15. The Applicant shall observe the following fuel consumption pattern :-

| Sl. No. | Type of fuel | Quantity consumed per day | Fuel burning operation where the fuel is used |
|---------|--------------|---------------------------|---|
| 01 | Husk | 160 TPD | Husk fired Boiler (1x35 TPH), |
| 02 | HSD | - | D.G.Set (1x750 KVA & 1x1250 KVA) |
| 03 | | | |
| 04 | | | |
| 05 | | | |

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :

| Type of waste | Quantity | Treatment | Disposal |
|---------------|----------|-----------|---|
| Husk Ash | 50 TPD | - | to be disposed of environmentally safe manner |
| - | - | - | - |

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

| Time | Limit in dB(A) L_{eq} |
|---------------------------------|-------------------------|
| Day Time (06 a.m. to 10 p.m.) | 75 |
| Night Time (10 p.m. to 06 a.m.) | 70 |

18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

Consent to **M/s. Globus Spirits Ltd.,**
 for its unit at **Panagarh Industrial Park, Vill & P.O: Kotagram, P.S: Bud Bud,**
 **Dist. Burdwan, Pin - 713148.**

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in **a year** from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, wastewater and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form-V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules. 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Applicant* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater, if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quantity as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident / event including natural disaster. The *Applicant* shall (i) take all steps adequate to prevent such accidental discharge / release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions - See Annexure.

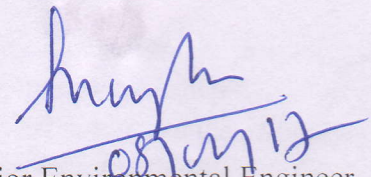
(Member Secretary/Chief Engr./Sr. Env. Engr./Circle Office
 W.B., Pollution Control Board)

[Signature]
 08/04/17
 Dr. Somnath Narayan
 Sr. Environmental Engineer
 Kankhal Circle Office
 W.B., Pollution Control Board

Annexure

Annexure to Consent to Operate letter No. **CO107510** of Globus Spirits Ltd. Located at Panagarh Industrial Park, Vill & P.O: Kotagram, P.S: Bud Bud, Dist. Burdwan, Pin – 713148.

- 1) Conditions mentioned in the Environmental Clearance issued by MoEF & CC, New Delhi vide no. J-11011/337/2013-1A 11(I) dated 15/05/2015 must be strictly complied with.
- 2) Conditions mentioned in the Consent to Establish (NOC) issued vide memo no. 839-SWC-26/2014 dated 02/09/2015 must be complied with.
- 3) Spent wash must be passed through decanter & concentrated in Multi-Effectuated Evaporator (MEE). Thick syrup and wet cake must be mixed together to form Distiller's Wet Grains with Soluble (DWGS) to achieve "Zero" Discharge. DWGS must be dried to form Distiller's Dry Grains with soluble (DDGS). Spent lees, MEE concentrate and utilities waste water must be treated in the effluent treatment plant followed by tertiary treatment facility and treated effluent is to be recycled/reused for cooling tower make up. No effluent would be discharged outside the factory premises and 'Zero' effluent discharge concept must be implemented.
- 4) Hazardous Waste Authorisation must be obtained from Waste Management Cell of WBPCB immediately.
- 5) FORM – I for assessment of water cess must be submitted on monthly basis.
- 6) This consent may be revoked at any time for non-compliance of Environmental Statutes.



Senior Environmental Engineer
Kankinara Circle Office, WBPCB.

Dr. Somnath Narayan
Senior Environmental Engineer
Kankinara Circle Office
W.B., Pollution Control Board

Annexure-VIII

DETAILED BUDGET EMP

Proposed Distillery project along with installation of Co-generation Power plant will cost 110.0 Crores to M/s. Globus Spirits Ltd. Cost for Environmental protection will be 15.00 Crores (Capital cost) and 1.5 Crore (Recurring cost per annum).

Breakup of EMP Cost

| S. No. | Scheme | Capital Cost (In lac Rs.) |
|-------------------|---------------|----------------------------------|
| 1 | Decanter | 75 |
| 2 | Evaporator | 620 |
| 3 | Drier | 655 |
| 4 | ETP | 150 |
| Total Cost | | 1500 (15.00 Crores) |

Annexure-IX

নোটিশ

This is to inform all Concerned Department related to Public Hearing held on 28th Nov.2014 that the MOEF is granted EC in favour of Globus Spirits Ltd. for setting up 120 KLPD Grain based Distillery at Plot No. B-7, Panagarh Industrial Park, Panagarh, Burdwan, West Bengal-713148.

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