

State Expert Appraisal Committee ,Bihar

Ref. No- 34.

Patna- 23, Date- 25/05/18.

To,

1. Shri Murarijee Mishra
Vijay Nagar, Near Temple,
Rukunpura, Patna - 800014.
2. Dr. Samir Kumar Sinha,
Wildlife Trust of India,
F-13, Sector - 8, Noida,
Uttar Pradesh - 201301.
3. Dr. Amar Nath Verma,
10192 ATS Advantage, AhinshaKhand - 1,
Near Habitat Centre, Indirapuram,
Ghaziabad - 201014.
4. Dr. Shardendu,
Department of Botany,
Patna Science College, Patna.

Sub :- Proceedings of State level Expert Appraisal Committee which was held on 19.05.2018 at 11:00 A.M. in Conference / Meeting Hall of State level Environment Impact Assessment Authority, 2nd Floor, Beltron Bhawan, Shastri Nagar, Patna - 23.

Sir,

Please find enclosed herewith proceedings of the State Expert Appraisal Committee (SEAC) held on 19th May, 2018 for perusal and needful.

Sincerely Yours


(Alok Kumar)

25/5/18

Proceedings of the State Expert Appraisal Committee (SEAC) meeting dated 19th May, 2018

A meeting of SEAC was held in the meeting hall of SEIAA, Bihar, 2nd Floor, Beltron Bhawan, Shastri Nagar, Patna- 23 on 19th May, 2018 presided over by the Chairman, SEAC the following members of the committee were present in the meeting:

1. Shri Alok Kumar, Member Secretary, SEAC
2. Dr. Amar Nath Verma, Member, SEAC
3. Dr. Shardendu, Member, SEAC

The project records of the projects included in the agenda were put up before the committee by supporting staffs/officers for necessary appraisal.

The committee discussed the proposal on the agenda and made following recommendations for various projects and sought compliance on the points raised in relation thereto-

1. **Balajee Mini Steels and Rerolling Pvt. Ltd, Unit 2 (Existing capacity 29,250 TPA and Proposed capacity 29,250 TPA, Total capacity:- 58,500 TPA, MS INGOT PRODUCTION), Village:- Mahadeopur Phulari, Circle:- Bihta, District:- Patna, State:- Bihar. (File.No.-SIA/3(a)/429/17).Online Proposal No.:- SIA/BR/IND/18154/2017).**

Balajee Mini Steels and Rerolling Pvt. Ltd, Unit 2 Induction Division (BMSRPL Unit - 2), is situated at Mahadeopur Phulari, Bihta at District Patna, Bihar having Latitude 25° 34' 42.52" N & Longitude 84° 51' 57.31" E at 51 meter above MSL near NH - 30. It is about 20 kms. from district head quarter Patna and is well connected by NH - 30 and rail with rest of the country. BMSRPL Unit - 2 is about 2 km (s) from Bihta Railway Station on Howarah - Delhi Main Line Sec. of ECR. Total Plant area is 5.49 Acres. Total area of 7,324.81 M² area (33% of total plot area 5.49 acres) is being utilized as green belt & plantation as mentioned in project proposal. The total project cost is INR 393 Lakhs.

Present & Proposed Manufacturing Details as contained in project proposal are summarized below:-

Manufacturing Facilities	Product	Existing capacity	Proposed Expansion	TOTAL Capacity
Induction	MS	29250	29250	58500

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Furnace	Ingot/Billet	MT/Annum	MT/Annum	MT/Annum
Re-rolling Mill	TMT	60000	Not Applicable	60000
Furnace	Bars/Rods	MT/Annum		MT/Annum

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 23.01.2017 for obtaining approved Terms of Reference (ToR). The proposal was considered by the SEAC in its meeting held on 28th & 29th January, 2017 to determine the ToR for preparation of EIA/EMP Report. The SEIAA issued ToR vide Ref. No. 537 dated 16.02.2017 and public hearing for the proposed expansion project was conducted on 26.08.2017.

The Proponent & Consultant presented the proposal before the committee, which after due discussion and consideration directed the project proponent to submit a revised report including the following:-

1. The green cover i.e. minimum 33% of the project area consisting of mixture of indigenous and fast growing species of trees and perennial shrubs must be created and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the coming rainy season i.e. (year 2018). Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of preferably evergreen species (trees) shall be completed in the initial phase of construction itself.
2. Building roof top areas should be used for fixing solar panels to utilize solar energy for lighting etc.
3. Fixing water sprinklers in plant campus, and use water tanker for sprinkling water on approach road of the plant at least once daily to minimize air pollution due to dust.
4. Submit project layout plan on scale, duly signed by project proponent and consultant.
5. Submit in house disaster management plan including health and safety management.

The proponent / consultant requested to grant 15 days time for compliance which was agreed upon by the SEAC.




2. **ShivShiva Steel Pvt Ltd. (Expansion Project), Mauja - Rajpura, Tehsil:-Fatuha, District:- Patna, State:- Bihar, Pin:- 803 201. Expansion of existing 30,000 TPA Re-rolling mill for additional production of 1,20,000TPATMT TOR/Bar/Rod by installation of 30 Ton Rolling Mill Furnace (file No.-SIA/3(a)/448/17). Online Proposal No.:- SIA/BR/IND/18661/2017).**

ShivShiva Steel Pvt Ltd. (SSPL), is situated at village - Raipura, Fatuha, District - Patna, Bihar having Latitude 25° 30' 11.52" N & Longitude 85°19' 35.10" E at 51 meter above MSL. It is about 25kms. from district head quarter Patna and is well connected by NH - 30 and rail with rest of the country. SSPL is about 3 km (East) from Fatuha Railway Station on Howarah - Delhi Main Line Sec. of ECR. SSPL has obtained Consent to Establish under water Act, 1974 & Air Act, 1981 from BSPCB vide Memo No.- T-2525, Dated - 27.03.2017 for their existing 30,000 TPA rolling mill project. Now, project authorities are willing to go for proposed expansion of Re-rolling Mill by installation of New 30 Ton Rolling Mill Furnace for additional production of 1,20,000 TPATMT Rod/Bar. SSPL having total land of 3.31 ha (8.81 Acres) on lease hold basis at Mauza-Raipura, 509, 512, 177, 46, 186, 126, 63, 55, Plot No.- 912, 896, 894, 895, 915, 899, 900, 917, 932, 914, 862, 899, 918 as mentioned in project proposal. Total project cost is INR 3,365 Lakhs.

Present & Proposed Manufacturing Details as contained in project proposal are summarized below:-

Manufacturing Facilities	Products	Existing Capacity	Proposed Expansion	Total Capacity after expansion
Re-rolling Mill Furnace	TMT Bars/Rods	30,000 MT/Annum	1,20,000 MT/Annum	1,50,000 MT/Annum

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 09.03.2017 for obtaining approved Terms of Reference (ToR).The proposal was considered by the SEAC in its meeting held on 24th March, 2017 to determine the ToR for preparation of EIA/EMP Report. The SEIAA issued ToR vide Ref. No.16/SEIAA/17 dated 21.04.2017. Public hearing for the proposed expansion project was conducted on 03.02.2018.

The Proponent & Consultant presented the proposal before the committee, which after due discussion and consideration, directed the project proponent to submit a revised report including the following:

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1. The green cover i.e. minimum 33% of the project area consisting of mixture of indigenous and fast growing species of trees and perennial shrubs must be created and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the coming rainy season i.e. (year 2018). Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of preferably evergreen species (trees) shall be completed in the initial phase of construction itself. Project proponent committed to complete the requirement of creation 33% green cover and green belt by making necessary arrangements in cooperation with the farmers/persons owning lands in surrounding area of the plant.
2. Building roof top areas should be used for fixing solar panels to utilize solar energy for lighting etc.
3. Fixing water sprinklers in plant campus, and use water tanker for sprinkling water on approach road of the plant at least oncedaily to minimize air pollution due to dust.
4. Submit project layout plan on scale, duly signed by project proponent and consultant.
5. Submit in house disaster management plan including health and safety management.

The proponent / consultant requested to grant 15 days time for compliance which was agreed upon by the SEAC.

3. **J. G. FOUNDRY LTD. (EXPANSION PROJECT), Mauja - Chimochak, P.S.- Didarganj, Tehsil: Putna Rural, District:- Patna, State:- Bihar. Existing Capacity:- MS Ingot :- 28,800 MT/Annum Proposed Expansion Capacity:- MS Billet:- 48,000 MT/ Annum, Total Capacity.- MS Billet:- 76,800 MT/Annum (File.No.- SIA/3(a)/449/17). Online Proposal No.:- SIA/BR/IND/18806/2017).**

J. G. Foundry Ltd. is situated near Mauza:-Chimochak, P.S.- Didarganj, Thana No. - 41, Khata No. - 2, Khesra No.- 13, 14, & 15, District Patna, Bihar having Latitude 25° 33' 42.78" N & Longitude 84°14' 56.88" East 51 meter above MSL. Total plant having an area 1.17 haas mentioned in project proposal Total project cost is INR 1172.274 Lakhs.

Present & Proposed Manufacturing Details as contained in project proposal are summarized below:-

Manufacturing Facilities	Product	Existing Capacity	Proposed Expansion capacity	Total capacity
Induction furnace	MS Ingot/Billet	28800 MT/Annum	48000 MT/Annum	76800 MT/Annum

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 17.03.2017 for obtaining approved Terms of Reference (ToR). The proposal was considered by the SEAC in its meeting held on 24th March, 2017 to determine the ToR for preparation of EIA/EMP Report. The SEIAA issued ToR vide Ref. No.14/SEIAA/17 dated 21.04.2017 and Public hearing for the proposed expansion project has been conducted on 17.03.2018.

The Proponent & Consultant presented the proposal before the committee. After due discussion and consideration, directed the project proponent to submit a revised report including the following:

1. The green cover i.e. minimum 33% of the project area consisting of mixture of indigenous and fast growing species of trees and perennial shrubs must be created and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the coming rainy season i.e. (year 2018). Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of preferably evergreen species (trees) shall be completed in the initial phase of construction itself.
2. Building roof top areas should be used for fixing solar panels to utilize solar energy for lighting etc.
3. Fixing water sprinklers in plant campus, and use water tanker for sprinkling water on approach road of the plant at least once daily to minimize air pollution due to dust.
4. Submit project layout plan on scale, duly signed by project proponent and consultant.
5. Submit in house disaster management plan including health and safety management.

The proponent / consultant requested to grant 15 days' time for compliance which was agreed upon by the SEAC.

4. **INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES (IGIMS) Proposed Hospital Building at Indira Gandhi Institute of Medical Sciences, Patna, Bihar Total Plot Area:- 122.38 acres, Total Proposed Built-up Area:- 68,671.19 M². (file.No. - SIA/8(a)/522/18). Online Proposal No.:- SIA/BR/NCP/74684/2018).**

The project site is located at Mauza Seikhpura, Plot Nos.: - 575, 577, 579, 580, 582, 583, 584, 586, 587, 588, 601, 602, 603, 604, 605 for Proposed Hospital Building within the existing IGIMS premises, Plot No. - 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 729, 730 of District Patna, Bihar. Total plot area 122.38 acres & Total built-up area 68,671.19 M². Maximum number of floor for the proposed project is B+G+6. Total project cost is INR 2,70,32,60,025.75, as mentioned in project proposal.

The Geo Co-ordinates of the project site are as under ;

	Latitude	Longitude
Proposed Hospital	25°36'41.19"N	85° 05'30.74"E
Building	25°36'41.13"N	85° 05'33.82"E
	25°36'35.55"N	85° 05'33.94"E
	25°36'38.53"N	85° 05'28.82"E

An application along with filled up 'Form - I' , Form-1 A, and Conceptual plan in the prescribed format was submitted to SEIAA, Bihar on 9th May, 2018 for obtaining Environmental Clearance. The proposal was appraised by the SEAC in its meeting held on 19th May, 2018.


The Proponent & Consultant presented the proposal before the committee. After due discussion and consideration, the committee directed the project proponent to submit a revised report including the following:-


1. Project layout plan on scale regarding ETP, duly signed by project proponent and consultant.
2. Building roof top areas should be used for fixing solar panels to utilize solar energy for lighting.
3. In-house food waste management facility in campus (Bio-composting unit).

The proponent asked for 5 days time to comply the above mentioned requirements. The committee resolved that on receipt of compliance by project proponent the proposal shall be recommended for necessary Environmental Clearance as Annexure - I.


Sd/-
(Dr. Shardendu)
(Member, SEAC)


Sd/-
(Dr. Amar Nath Verma)
(Member, SEAC)


(Alok Kumar)
Member Secretary, SEAC


(Murarijee Mishra)
Chairman, SEAC

Now, since the project proponent has submitted compliances vide their Ref. No.- 103/EC/CW/18, dated - 23.05.2018 the proposal is recommended for Environmental Clearance.


(Alok Kumar)
Member Secretary, SEAC


(Murarijee Mishra)
Chairman, SEAC

Annexure:-I

Environment Clearancecondition for Construction Projects

PART A – GENERAL CONDITIONS

I. Pre- Construction Phase

- i. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel (kerosene/gas) for cooking, safe drinking water, medical health care, etc. The housing may be in the form of temporary structures to be removed after completion of the project.
- ii. Provision of drinking water, waste water disposal, solid wastes management and primary health facilities shall be ensured for labour force. Proper sanitation facilities shall be provided at the construction site to prevent health related problems. Domestic as well as sanitary wastes from construction camps shall be cleared regularly.
- iii. Adequate safety measures shall be adopted for the construction workers.
- iv. All the labourers to be engaged for construction works shall be screened for health and adequately treated before issue of work permits. The contractor shall ensure periodic health check-up of construction workers.
- v. Fencing of the project boundary before start of construction activities.
- vi. Use of energy efficient construction materials shall be ensured to achieve the desired thermal comfort.
- vii. Use of fly ash based bricks/blocks/tiles/products shall be explored to the maximum extent possible.
- viii. Lay out of proposed buildings and roads within premises etc. shall be made in such a way that it shall cause minimum disturbance to existing flora and fauna. Appropriate green belt shall developed to compensate the habitat loss of tree cutting (if any) from competent authority as per prevailing Act/Rules. The exotic species existing within the existing premises, if any, shall be protected. The greening programme shall include planation of both exotic and indigenous species.
- ix. Dedicated pedestrian paths shall be provided along the proposed Buildings. Appropriate access shall be provided for physically challenged people in the Pedestrian Paths.
- x. The design of service roads and the entry and exit from the buildings shall conform to the norms & standards prescribed by the State Public Works Department.
- xi. The road system shall have the road cross sections for general traffic, exclusive ways for public mass transport (bus) system, pedestrian paths and ways, utility corridors and green strip.
- xii. Topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site. Balance top soil should be disposed at in planned manner for use else where Adequate erosion and sediment control measures to be adopted before ensuing construction activities.
- xiii. Prior permission should be obtained from the competent authority for demolition of

the existing structure, if any. Waste recycling plans including top soil should be developed prior to beginning of demolition and construction activity. The plans should identify wastes to be generated and designate handling, recycling and disposal method to be followed.

- xiv. Disposal of muck including excavated material during construction phase should not create any adverse effects in the neighborhood and the same shall be disposed of taking the necessary precautions for general safety and health aspects.
- xv. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which should be in the vernacular language, informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority, Bihar, and the same may also be seen on the website of the B.S.P.C.B., Patna. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhubaneswar.
- xvi. Risk assessment study along with Disaster Management Plan (DMP) shall be prepared. The mitigate measures for disaster prevention and control shall be prepared and get approval from competent authority. All other statutory clearances/licenses/permissions from concerned State Governments Departments, Boards and Corporations shall be obtained for directions issued by Central Government/State Government, Central Pollution Control Board/Bihar State Pollution Control Board.
- xvii. Baseline Environmental Condition of Project area i.e. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples should be conducted and report should be submitted to State Environment Impact Assessment Authority (SEIAA), Bihar and Bihar State Pollution Control Board (BSPCB), Patna prior to start of construction activities.

II. Construction Phase

- i. It shall be ensured that the construction debris is properly stored on the site prior to disposal. Such requirements shall be made part of the contractor agreement.
- ii. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site. Proper erosion control and sediment control measures shall be adopted.
- iii. Earth material generated from excavation shall be reused to the maximum possible extent as filling material during site development. The construction debris and surplus excavated material shall be disposed off by mechanical transport through the Patna Municipal Corporation.
- iv. Disposal of muck, including excavated material during construction phase, shall not create any adverse effects on the neighbouring communities and shall be disposed off taking the necessary precautions for general safety and health aspects.
- v. Low Sulphur diesel generator sets should be used during construction phase. Diesel generator sets during construction phase shall have acoustic enclosures and shall

- conform to Environment (Protection) Rules, 1986 prescribed for noise emission standards.
- vi. All vehicles/equipment deployed during construction phase shall be ensured in good working condition and shall conform to applicable air and noise emission standards. These shall be operated only during non-peaking hours.
 - vii. Ambient noise levels shall conform to the standards prescribed by MoEF, Govt. of India.
 - viii. The protective equipment such as nose mask, earplugs etc. shall be provided to construction personnel exposed to high noise levels.
 - ix. Construction spoils, including bituminous material and other hazardous materials including oil from construction equipment must not be allowed to contaminate soil/ground water. The dumpsites for such material must be secured so that they shall not leach into the ground water.
 - x. Proper and prior planning, sequencing and scheduling of all major construction activities shall be done. Construction material shall be stored in covered sheds. Truck carrying soil, sand and other construction materials shall be duly covered to prevent spilling and dust emission. Adequate dust suppression measures shall be undertaken to control fugitive dust emission. Regular water sprinkling for dust suppression shall be ensured.
 - xi. Use of Ready-Mix concrete is recommended for the project.
 - xii. Accumulation/stagnation of water shall be avoided ensuring vector control.
 - xiii. Regular supervision of the above and other measures shall be in place all through the construction phase so as to avoid disturbance to the surroundings.
 - xiv. Water during construction phase should be preferred from Municipal supply.
 - xv. All directions of the Airport Authority, Director of Explosives and Fire Department etc. shall be complied.
 - xvi. Unskilled construction labourers shall be recruited from the local areas.
 - xvii. Provisions shall be made for the integration of solar water heating system.
 - xviii. Provision of vermin-composting for the biodegradable solid wastes generated from the proposed extension buildings as well as the large amount of biomass that shall be available from the tree plantation shall be made.
 - xix. Monitoring of ground water table and quality once in three months shall be carried out. Construction of tube wells, bore wells shall be strictly regulated.
 - xx. Permeable (porous) paving in the parking areas, and walkways should be used to control surface runoff by allowing storm water to infiltrate the soil and return to ground water.
 - xxi. All intersections shall be designed and developed as roundabouts.
 - xxii. All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.
 - xxiii. The road drainage shall be designed to enable quick runoff of surface water and prevent water logging.
 - xxiv. Adequate provision shall be made to cater the parking needs. Parking spaces standards as given in "Manual on Norms and Standards for Environmental Clearance



of Large Construction Projects” issued by Ministry of Environment and Forests, Government of India shall be adopted.

- xxv. Fountains shall be installed and maintained at all intersections of roads and roundabouts minimize air/dust pollution in the campus.
- xxvi. Rest room facilities shall be provided for service population.
- xxvii. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, should be conducted and report should be submitted on monthly basis to SEIAA, Bihar & BSPCB, Patna.

III. Post Construction/Operation Phase

- i. The environmental safeguards and mitigation measures contained in the application shall be implemented in letter and spirit.
- ii. All the conditions, liabilities and legal provisions contained in the Environmental Clearance shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity. Ground water shall not be abstracted without prior permission from the competent authority.
- iii. The storm water management plan shall be implemented in such a manner that the storm water is discharged through an existing dedicated Storm Water Outfall only.
- iv. The height of the stack of the DG sets should be as per norms of CPCB.
- v. Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of trees shall be completed in the construction stage. The plantations shall consist of mixture of available indigenous, fast growing and sturdy species of trees, shrubs and herbs. Preferential plantation of flowering trees with less timber and fruits value shall be carried out.
- vi. Two chambered container or two separate containers (one for recyclable wastes and other for all organic and compostable wastes) shall be placed at appropriate distance on the roadsides and inside the building. Covered dustbins/garbage collector in convenient places to collect the Municipal solid wastes shall be provided.
- vii. Proper composting / vermi-composting of municipal and biodegradable solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Municipal Solid Wastes (Management and Handling) Rules, 2000 (As amended).
- viii. The use of hand gloves, shoes and safety dress for all waste collectors and sorters shall be enforced.

IV. Entire Life of the Project

- i. The project proponent should implement Environmental Monitoring Programme as per details submitted in EMP.
- ii. No expansion/modification activity should be carried out without obtaining prior Environmental Clearance as per EIA Notification 2006/

- iii. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stock Emissions & Testing of Effluent from DG sets should be conducted and report should be submitted on monthly basis to SEIAA, Bihar & BSPCB, Patna.

PART B- SPECIFIC CONDITIONS

I. Pre-Construction Phase

- i. Project Proponent should obtain prior consent to establish (NOC) under Section 25 & 26 of the Water (Prevention & Control of Pollution) Act' 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act' 1981 from State Pollution Control Board before start of construction activities.
- ii. Project Proponent should obtain prior permission for ground water withdrawal from CCWA/CGWB if applicable.
- iii. Construction shall conform to the requirements of local seismic regulations. The project proponent shall obtain permission for the plans and designs including structural design, standards and specifications of all construction work from concerned authority.
- iv. Use of energy efficient construction materials to achieve the desired thermal comfort shall be incorporated. The desired level of roof assembling "U" factor and insulation "R" value must be achieved. Roof assembling "U" factor for the top roof shall not exceed 0.4 watt/sq.m./degree centigrade with appropriate modifications of specifications and building technologies. The provisions of National Building Code 2005 shall be strictly followed.
- v. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- vi. Reduction of hard paving-onsite (Open area surrounding all buildings) and/or provision of shades on hard paved surfaces to minimize heat island effect and ~~imperviousness of the site should be undertaken~~.
- vii. All proposed air/conditioned buildings should follow the norms proposed in the ECBC regulations framed by the Bureau of Energy Efficiency.
- viii. Monitoring of AAQ as per NAAQs 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets should be conducted, and reports should be submitted on monthly basis to SPCB.

II. Construction Phase

- i. All the conditions laid down in NOC issued by SPCB should be strictly complied with during entire construction cycle of the Project.
- ii. The water treatment plant shall be provided for treatment of water. The treatment shall include screening, sedimentation, filtration and disinfections. Appropriate

- arrangement shall be made for treatment and reuse of backwash water of filtration plant.
- iii. Project proponent shall provide adequate measuring arrangement at the inlet point of water uptake and at the discharge point for the measurement of water utilized in different categories and monitoring daily water consumption.
 - iv. Regular water sprinkling shall be done all around the site to minimize fugitive dust emission during construction activities.
 - v. Rain water harvesting structures should be provided as per submitted Plan.

III. Post Construction/Operation Phase

- i. Project Proponent should obtain prior consent to operate under Air Act, 1981 & Water Act, 1974 from State Pollution Control Board before commissioning of the project.
- ii. Water saving practices such as usage of water saving devices/fixtures, low flushing systems, sensor based fixtures, auto control walls, pressure reducing devices etc. should be adopted.
- iii. Water budget should be adopted as per the plan submitted in the supplementary Form I A& EMP.
- iv. All the generated domestic effluent should be sent to ETP/STP for treatment & further recycling & reuse.
- v. Treated water recovered from STP would be used for flushing the toilets, gardening purpose, make up water in air conditioning systems, etc. As proposed, Fluidized Bed Reactor (FBR) type sewage treatment plant should be installed. The Sewage Treatment Plant shall be ensured before the completion of Building Complex.
- vi. Rainwater from open spaces shall be collected and reused for landscaping and other purposes. Rooftop rainwater harvesting shall be adopted for the proposed Buildings. Every building of proposed extension project shall have rainwater-harvesting facilities. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter and oil and grease.
- vii. Municipal solid wastes generated in the proposed extension buildings shall be managed and handled in accordance with the compliance criteria and procedure laid down in Schedule- II of the Municipal Wastes (Management and handling) Rules, 2000 (As amended).
- viii. The standard for composting & treated leachates as mentioned in Schedule-IV of the Municipal Wastes (Management and handling) Rules, 2000 (As amended) shall be followed.
- ix. All hazardous wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Hazardous Wastes (Management and Handling) Rules, 1989 (As amended).
- x. Recycling of all recyclable wastes such as newspaper, aluminium cans, glass bottles, iron scrap and plastics etc. shall be encouraged through private participation. Project proponent shall take appropriate action to ensure minimum utilization of plastic carry bags and plastic small containers etc. within the proposed buildings shall be ensured.

- xi. Project proponent shall operate and maintain the sewage collection/conveyance system, sewage pumping system and sewage treatment system regularly to ensure the treated water quality within the standards prescribed by MoEF&CC Government of India.
- xii. Properly treated and disinfected (Ultra Violet Treatment) sewage shall be utilized in flushing the toilets, gardening purpose, make up water in air conditioning systems etc.
- xiii. Non-mixing of faecal matter with the municipal solid wastes shall be strictly ensured.
- xiv. Non-mixing of sewage/sludge with rainwater shall be strictly ensured.
- xv. Noise barriers shall be provided at appropriate locations so as to ensure that the noise levels do not exceed the prescribed standards. D.G. sets shall be provided with necessary acoustic enclosures as per Central Pollution Control Board norms.
- xvi. Back up supply shall be based on natural Gas/cleaner fuel subject to their availability.
- xvii. The project proponent shall resort to solar energy at least for street lighting and water heating for Proposed Building Complex, gardens/park areas.
- xviii. During maintenance, energy efficient electric light fittings & lamps- low power ballasts, low consumption high power luminaries, lux level limiters & timers for street lighting shall be provided.
- xix. A report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, "R" and "U" factors etc.
- xx. Monitoring of AAQ as per NAAQS 2009, Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG sets & Testing of Untreated & treated effluent samples of STPs should be conducted and report should be submitted on monthly basis to SPCB.

IV. Entire Life of the Project

- i. All the conditions laid down in NOC& consent to operate issued by SPCB should be strictly complied with during entire life cycle of the project.
- ii. Monitoring of Ambient Noise Level & Analysis of Ground Water Samples, Monitoring of Stack Emissions from DG Sets & Testing of Untreated & treated effluent samples of STPs should be conducted and reports should be submitted on monthly basis to SPCB.
- iii. The project authorities shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPC rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iv. The overall noise levels in and around the project 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 should

- conform to the standards prescribed under EPA Rules 1989 viz. 75 DBA (day time) and 70 DBA (night time).
- v. The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by SEIAA, Bihar with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
 - vi. The green cover i.e. minimum 33% of the project area consisting of mixture of available indigenous and fast growing species of trees and perennial shrubs must be created and maintained. Plantation of (minimum 5 feet tall plants) must be planted in the coming rainy season i.e. (year 2018). Plantation along the side of the buildings & roads and in the open spaces shall be developed to act as sinks of air pollutants. The plantation of preferably evergreen species trees shall be completed in the initial phase of the construction stage itself.
 - vii. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
 - viii. The funds earmarked for the environmental protection measures shall not be diverted for other purposes.
 - ix. In case of any changes in the scope of the project, the project shall require a fresh appraisal by the SEAC/SEIAA.
 - x. The SEAC/SEIAA Bihar will have the right to amend the above conditions and add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
 - xi. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal (NGT), if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

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