

**Minutes of the thirty sixth meeting of the reconstituted State Level Expert Appraisal Committee,
West Bengal held on 23.03.2022 at 2:00 p.m. at the Conference Room, Paribesh Bhawan,
Bidhannagar.**

Name of the members who were present in the meeting are as follows: -

1)	Roshni Sen, IAS	Secretary, SEAC	Present
2)	Dr. Ashit Kumar Mukherjee	Chairman, SEAC	Present
3)	Dr. Nilangshu Bhusan Basu	Member, SEAC	Present
4)	Dr. Anirban Gupta	Member, SEAC	Present
5)	Dr. Pradip Kumar Sikdar	Member, SEAC	Present through VC
6)	Prof. (Dr.) Aniruddha Mukhopadhyay	Member, SEAC	Present
7)	Prof. (Dr.) Sampa Chakrabarti	Member, SEAC	Present
8)	Dr. Indranath Sinha	Member, SEAC	Present
9)	Dr. Goutam Kumar Saha	Member, SEAC	Present
10)	Shri Shubhendu Bandyopadhyay	Member, SEAC	Present

The 36th meeting of the reconstituted State Expert Appraisal Committee (SEAC), was held on 23.03.2022 at 2:00 p.m. through both physical and online modes in the Conference Room at Paribesh Bhawan, Bidhan Nagar. At the outset, the Secretary, SEAC welcomed all the members. After the introductory session, the technical presentations were made by applicants. Three applicants were requested to make their presentation before the committee. All the applicants presented before the committee on their respective project proposals. Nine cases were placed for reconsideration. One case was placed under 'Miscellaneous' section.

A. Note on Technical presentations :-

For Environmental Clearance

Construction Sector

- Proposed expansion of Residential Complex by M/s. Kolkata Heights Private Limited at Premises no. – 761, Madurdaha, KMC Ward no. – 108, RS Dag No. 455 & 457, J.L. No. – 12, Mouza – Madurdaha, Borough – XII, Kolkata – 700107, P.S. – Anandpur, West Bengal. (Proposal No. SIA/WB/MIS/258304/2022). Name of the Environmental Consultant is M/s. Centre for Sustainable Development.**

Activity:

- This is a vertical expansion proposal for construction of Residential Complex comprising of additional 2 floors with an addition of 36 flats. Total Built up area of the expansion project is 4792.34 sqm. on a land area of 13660.26 sqm. After the expansion the project will comprise of Block 1 - G+17 storied, Block 2 - G+16 storied (Block 2 consists of 3 towers – Tower1, Tower 2, Tower 3).

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Chronology of the event:

- Salient features of the expansion project as uploaded in the PARIVESH portal are –

Salient Features	Phase I – EC obtained from SEIAA vide no. 1726/EN/T-II-1/017/2017 dated 17.12.2020	Proposed Phase II (expansion proposal)	Total as per Phase I + II – Sanction Plan Obtained
Total Land area	13660.26 sq.m	--	13660.26 sq.m
Gifted Area to Municipality	305.76 sq.m (2.24% of total land area)	--	305.76 sq.m (2.24% of total land area)
Net Land Area	13354.50 sq.m	--	13354.50 sq.m
No. of flats	229 nos. Flats	36 nos. Flats	265 nos. flats (2 BHK – 45, 3 BHK – 186, 4 BHK – 34)
No. of blocks	Block 1 - G+15 storied Block 2 - G+14 storied Block 2 consists of 3 towers – Tower1, Tower 2, Tower 3	Addition of 2 floors in block 1& 2.	Block 1 - G+17 storied Block 2 (tower 1,2,3) - G+16 storied
Expected population	Permanent – 1365 nos. Temporary – 345 nos. Total – 1710 persons	--	Residents – 1579 nos. Residential Floating – 158 nos. Service staff – 100 nos. Total - 1837 persons
Total Water Requirement (Operation Stage)	263 kLD	--	247 kLD
Freshwater Requirement	161 kLD (KMC supply)	--	147 kLD (KMC supply)
Wastewater Generated	185 kLD	--	176 kLD
Treated Wastewater Generated	--	--	172 kLD (after treatment in STP)
Treated Wastewater Recycled	102 kLD	--	92 KLD (reused for flushing, road cleaning and landscaping)
Treated Wastewater Discharged	83 kLD	--	80 kLD (to KMC sewer)
Solid Waste Disposal	940 kg/day		817 kg / day (through KMC and on – site compost plant)
Total Built-up area	38411.415 sq.m	4486.18 sq.m	42897.595 sq.m
Total Construction Area	39966.345 sq.m	4792.34 sq.m	44758.685 sq.m
Ground coverage	5300.45 sq.m (38.80% of total land area)	--	5300.45 sq.m (38.80% of total land area)
Exclusive Tree Plantation Area	2805.42 sq.m (20.54% of total land area)	--	2805.42 sq.m (20.54% of total land area)
Paved Area	--	--	3615.95 sq.m (26.47% of total land area)
Open parking Area	1475.00 sq.m (10.80% of total land area)	--	1360.91 sq.m (9.96% of total land area)

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Salient Features	Phase I – EC obtained from SEIAA vide no. 1726/EN/T-II-1/017/2017 dated 17.12.2020	Proposed Phase II (expansion proposal)	Total as per Phase I + II – Sanction Plan Obtained
Service Area	112.0 sq.m (0.82% of total land area)	--	271.77 sq.m (1.99% of total land area)
Total Paved Area	2836.39 sq.m (20.76% of total land area)	--	--
Total Green Area	4576.25 sq.m (33.50% of total land area)	--	--
Total no. of trees	190 nos.	--	190 nos.
Parking Provided	382 nos.	--	382 nos. (Open -118 nos., Covered – 165 nos., 1 st floor – 99 nos.)
Electricity Load	1700 KVA, CESC		Demand Load - 1838 kVA Connected Load – 2625 kVA, CESC
D.G. Sets for Back Up power	2x500 KVA + 2x250 KVA+ 1x150 KVA		650 KVA
Solar power generation	1% of total demand to be met from solar power source	--	1% of total demand to be met from solar power source
No. of solar street light	25 nos.	--	25 nos.
Total project cost (Rs.)	9058.22 lakhs	2156.19 Lakhs	11,214.41 lakhs

- The project proponent presented their Environmental Clearance proposal in the 36th reconstituted SEAC meeting held on 23.03.2022. Based on the submission and presentation made by the project proponent, the committee recommended that the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration: -
 - a) Mismatch in the area statement between DFO Plan and sanction building plan.
 - b) The paved area shown in the sanction plan is increased from the earlier EC at the cost of open parking area and service area, while the number of open parking spaces remain the same. Clarification to be provided. Recharge points of harvested rainwater should not be below driveway or parking area.
 - c) Ground coverage is 5300.45 sq.m (38.80% of total land area), however, increase in built up area is 4792.34 sq.m. Clarification to be provided.
 - d) Six monthly compliance report to be uploaded.
 - e) Current validity of accreditation of the consultant to be uploaded in the portal.
 - f) The source of water should be clearly indicated. If it is not KMC supply, ground water permission from the competent authority to be uploaded.
 - g) Developer Agreement, Power of Attorney, Clearance from Airport Authority of India.
 - h) Provide water meter with totalisers at inlet of water (KMC or other) supplies, at recycle point and final consumption and discharge points. Water analysis reports are also required at supply, recycle and discharge points. The totalisers readings and water analysis reports are to be submitted with periodic compliance reports. The meters should be at the pump discharge lines wherever applicable.

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- i) Underground STP to be properly operated and managed in view of the confined water at that level and surface stormwater. No water logging should be ensured with proper dewatering mechanism for exigencies.
- j) Provide all the following documents related to High Rise Building as per MoEF&CC, vide No. 21-270/2008-IA.III dated 07.02.2012:
 - a) Microclimate (sunshine & shadow analysis and its effect on energy consumption).
 - b) Air circulation (effect on natural ventilation and wind speed).
 - c) Day lighting (how dependence on artificial lighting during daytime is affected).
- k) Detailed plan of solar power plant including PV array should be submitted. Area of rooftop to be provided.
- l) First flush diverter needs to be provided. Revised proposal to be submitted. Top-soil should be conserved and reused.
- m) Revised EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Items like hand washing station, toilet facility with running water, school infrastructure including incinerator for used sanitary napkins in case of girls' schools, provision for sufficient service water supply and treatment of drinking water, training on environmental awareness including MSW segregation etc. in nearby schools to be considered. Computer literacy training for the local youth may also be considered. Need of the surrounding locality to be explored.
- n) The PP should please clarify about the glass he is planning to use in window panes and in exterior surfaces and also about the passive solar architectural features to cut the glare.
- o) In case of basement car parking, depth of basement and impact of ground water flow may be furnished.
- p) Proposal for providing organic waste composter.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries through "PARIVESH" portal.

- 2. Proposed residential project at Residential Complex by M/s. Merlin Projects Limited at R.S/L.R. Dag No. – 144,146, 149, 152, 153, 154, 155, 156, 157, 258, 259, 260, 261, 262, 263, 264(P), 265(P), 266(P), 267(P), 268, 270(P), 271, 275, 276, 277, 280, J.L. No. – 35, Mouza – Chapna, under Patharghata Gram Panchayat, P.O. & P.S. – Rajarhat, North 24 Parganas, Kolkata – 700135. (Proposal No. SIA/WB/MIS/250876/2022). Name of the Environmental Consultant is M/s. Ultra-Tech.**

Activity:

- This is a fresh proposal for construction of Residential Complex comprising of Block: 1, 2, 3A - B+G+XII, Block: 3B, 3C, 3D - G + XI, Block: 4(Club) - G +III stories buildings.
Total Built up area of the project is 49786.63 sqm. on a land area of 16116.13 sqm. Total No. of Flats 552 (1.5BHK - 138 nos., 2BHK - 276 nos., 3BHK - 138 nos.).

Chronology of the event:

- Salient features of the proposed project as uploaded in the PARIVESH portal are –

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Land area of the project	16116.13 sqm
No. of blocks	Block: 1, 2, 3A - B+G+XII, Block: 3B, 3C, 3D - G + XI, Block: 4(Club) - G +III
No. of Flats	552 (1.5BHK - 138 nos., 2BHK - 276 nos., 3BHK - 138 nos.)
Latitude & Longitude of site	22°33'52.79"N & 88°30'39.68"E
Total Built-up area	49786.63 sqm
Proposed Ground Coverage Area	5441.68 sqm (33.765% of Land Area)
Exclusive Tree Plantation Area	3250.32 sqm (20.168% of Land Area)
Paved Area	4810.01 sqm (29.846% of Land Area)
Service Area	1083.27 sqm (6.722% of Land Area)
Open Parking Area	1530.85 sqm (9.499% of Land Area)
Source of Water	Ground water supply
Quantum of Water required	377 KLD
Quantity of Wastewater Generation	283 KLD
Treated Wastewater Recycled	99 KLD (to be used in landscaping, flushing & car washing)
Quantity of Wastewater Discharge	184 KLD
Quantum of Fresh Water required	278 KLD
Quantity of Solid Waste Generation (operational phase)	1550 kg/day
Constructional phase Water Demand	33 KLD (28 KLD for workers and 5 KLD for construction work)
Total Population During Construction	400 persons
Total Population During Operation	3217 (Fixed – 2898, Floating – 319) persons
Electricity load	2510 KVA (2008 KW) by WBSEDCL
D.G. Sets for Back Up power	2 nos.625 KVA
Parking Provided	Cars – 431 nos. [Open– 68 nos., Open Mechanical two layered parking – 87 nos., Covered parking (ground floor) – 150 nos., Covered parking (below podium) – 19, & Covered parking (basement) – 107]
Total no. of trees	265 nos.
Total project cost (Rs.)	Rs. 10115.72 lakhs

- The project proponent presented their Environmental Clearance proposal in the 36th reconstituted SEAC meeting held on 23.03.2022. Based on the submission and presentation made by the project proponent, the committee recommended that the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration: -
 - Ground water permission from the competent authority to be uploaded.
 - Sanction area statement by the competent authority. Top soil should be conserved and reused.
 - A report on the impact of basement on groundwater flow and confined aquifer to be submitted.
 - Pumping schedule to be provided. Simultaneous pumping to be avoided. Distance between the wells and location of wells to be provided.
 - Concurrence from competent authority for solid waste, drainage and other services.

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- vi) Revised EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. Items like hand washing station, toilet facility with running water, school infrastructure including incinerator for used sanitary napkins in case of girls' schools, provision for sufficient service water supply and treatment of drinking water, training on environmental awareness including MSW segregation etc. in nearby schools to be considered. Computer literacy training for the local youth may also be considered. The need of the surrounding area should be explored.
- vii) Water analysis should be done at the level of borewell. Arsenic removal plant should be installed, if source water is found to contain arsenic. Plan in this regard is to be provided. Periodic three-monthly source water testing to be done, even if arsenic is absent in initial samples.
- viii) Provide water meter with totalisers at inlet of water supplies, at recycle point and final consumption and discharge points. Water analysis reports are also required at supply, recycle and discharge points. The totalisers readings and water analysis reports are to be submitted with periodic compliance reports. The meters should be at the pump discharge lines wherever applicable.
- ix) Provide all the following documents related to High Rise Building as per MoEF&CC, vide No. 21-270/2008-IA.III dated 07.02.2012:
 - a) Microclimate (sunshine & shadow analysis and its effect on energy consumption).
 - b) Air circulation (effect on natural ventilation and wind speed).
 - c) Day lighting (how dependence on artificial lighting during daytime is affected).

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries through "PARIVESH" portal.

For Environmental Clearance

Industry Sector

- 3. Proposed expansion project of existing Common Bio-Medical Waste Treatment Facility by M/s. Medicare Environmental Management Pvt. Ltd. at 41, F-Road, Belgachia, PS – Liluah, PO & Dist – Howrah, West Bengal. (Proposal No. SIA/WB/MIS/47616/2019) Name of the Environmental Consultant is M/s. Ramky Enviro Services Private Limited.**

Activity:

- This is a proposal for expansion project of existing Common Bio-Medical Waste Treatment Facility from 7.5 TPD to 15 TPD at 41, F-Road, Belgachia, PS – Liluah, PO & Dist – Howrah, West Bengal.
- The unit has a valid Consent to Operate issued on 18 Feb 2019 by WBPCB and valid upto 30 Nov 2023.

Chronology of the event:

- Salient features of the proposed project as uploaded in the PARIVESH portal are –

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Plot no./Survey no./Khasra No	41, F-Road, Belgachia, PS – Liluah, PO & Dist – Howrah, West Bengal
Land Area	2 acres (8,093.71 sq.m)
Total Area of Green Belt	0.267 ha (33.38%)
Capacity of plant & equipment.	After expansion the project has been designed to treat BMW up to 15 TPD. Key components of the facility after proposed expansion include: a) ETP – 150 KLD b) Incinerators – 750 kg/hr (Existing- 2 nos. x 250 kg/hr- one working and one stand by, Proposed- 2 nos. x 250 kg/hr) c) Autoclave – 7.5 TPD (Existing 2 nos. x 2.5 TPD- one working and one stand by, Proposed- 2 nos. x 2.5 TPD each) d) Shredder- 7.5 TPD (Existing 1 no. x 60 kg/hr, 1 no. x 80 kg/hr, Proposed- 1 no. x 5 TPD)
Project cost	Rs. 12 Crores
Coordinates	Latitude: 22° 36' 27.41" N Longitude: 88° 19' 34.75" E
Water requirement	Net water requirement is 45 KLD. Source : Borewell and municipal water supply
Total Waste Water Generation	120 KLD
Power	300 KW power supplied by West Bengal State Electricity Distribution Company Ltd. 300 kVA DG set to be maintained for emergency power backup

- The unit presented their proposal for Terms of Reference presentation in 3rd reconstituted SEAC meeting held on 18.09.2020.
- In accordance with the recommendation of the SEAC, SEIAA issued ToR vide No. 1510/EN/T-II-1/006/2020 dated 12.11.2020.
- Public Hearing was conducted by WBPCB on 15.12.2021.
- The project proponent submitted final EIA report on 23.02.2022 at PARIVESH Portal.
- The project proponent presented their final EIA report in the 36th reconstituted SEAC meeting held on 23.03.2022. Based on the submission and presentation made by the project proponent, the committee recommended that the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration: -
 - a) The presentation and documentation should be as per proper format of EC application.
 - b) Permission for water supply from competent authority. Break-up of water supply between borewell and other supply should be provided. Water-meter and totalizers should be provided at respective points.
 - c) Valid agreement with TSDF.
 - d) Detailed land use plan showing the area statement with percentage.
 - e) Operational hours of incinerators present and proposed.
 - f) Percentage of total autoclavable and incinerable BMW. Provision of the puncture-proof boxes for the sharps should also be indicated separately.
 - g) Correct power supply agency to be mentioned.

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- h) Water level contour map to be revised and submitted.
- i) A time bound progressive green belt development plan should be submitted and followed indicating quantitative coverage, plant species, spacing and time frame. A schematic planting prescription for an area of one Ha. is annexed as **Annexure 1**.
- j) Detailed flow diagram of ETP including disinfection & sludge disposal plan.
- k) Revised EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 to be submitted. The need of the surrounding locality should be explored. Activities usually done by Ramky Foundation will not be considered here; specific activities for this particular expansion project with budget break-up will be considered.
- l) The emission control system proposed is of dry process. Process flow chart to be modified accordingly.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries through “PARIVESH” portal.

B. Reconsideration proposals

Construction Sector

1. **Proposed expansion of Residential project “TOLLY TOWERS” by M/s. Tollygunge Estates Pvt. Ltd. at 3, Netaji Subash Chandra Bose Road, KMC Ward No. 97, P.S: Regent Park, Kolkata-700040, West Bengal. (Proposal No. SIA/WB/MIS/248165/2021). Name of the Environmental Consultant is M/s. Envirotech East Pvt. Ltd.**

Activity:

- This is a proposal for expansion (vertical expansion) of Residential Complex of 2 Blocks B+G+26 with additional 9 floors of each block. Final configuration will be 2 Blocks of B+G+35. Total Built Up Area is 42856.324 sqm. Total land area is 15728.634 sqm. No. of flats are 188.
- The project proponent had obtained Environment Clearance from State Level Environment Impact Assessment Authority (SEIAA), West Bengal, vide No. 2177/EN/T-II-1/027/2016 dated 25.09.2017 for the construction of Residential project Two towers of B+G+26.

Chronology of the event:

- Salient features of the proposed expansion project as uploaded in the PARIVESH portal are –

Project Details	As per Environmental clearance already received (Memo No. 2177 / EN / T-II-1 / 027 / 2016 dated 25.09.2017)	Expansion Project	Total Project Scenario
Block details	2 Blocks (B+G+26)	2 Blocks (9 Additional Floors)	2 Blocks (B+G+35)
Built Up Area	32235.429 sqm	10620.895 sqm	42856.324 sqm
Gross Land Area	10184.97 sqm	5543.664 sqm.	15728.634 sqm
Land gifted to KMC	223.60 sqm.	--	223.60 sqm.
Land Area after gifting	9961.37 sqm.	5543.664 sqm	15505.034 sqm.
Water Body area	1806.03 sqm (18.13% of net land area)	--	1806.03 sqm (11.65% of land area)

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Project Details	As per Environmental clearance already received (Memo No. 2177 / EN / T-II-1 / 027 / 2016 dated 25.09.2017)	Expansion Project	Total Project Scenario
Nos. of flats	138	50	188 (3 BHK – 126, 4/5 BHK – 59, 7/8 BHK – 2, 8 BHK – 1)
Expected Population	1308 persons (permanent - 840, temporary - 468)	--	1670 persons (permanent - 1190, temporary - 480)
Total Water Requirement	184.16 KLD	--	236 KLD
Fresh water requirement	107.64 KLD	--	136.47 KLD
Wastewater generation	133.792 KLD	--	168.64 KLD
Treated wastewater Reused	76.52 KLD	--	99.47 KLD
Treated Wastewater discharged	43.89 KLD	--	64.95 KLD
Solid waste disposal	0.49 TPD	--	0.831 TPD
Ground Coverage	2130.193 sqm (20.915% of net land area)	--	3348.48 sqm (21.60% of land area) existing ground coverage 1167.21 sqm. Executed ground coverage (main tower) 2181.269 sqm.
Total Green Area (including exclusive tree plantation area and other green area)	3540.50 sqm. (35.54% of net land area)	--	6368.35 sqm. (41.07% of land area)
Exclusive Tree Plantation Area	2308.29 sqm (23.17% of net land area)	--	2741.85 sqm (17.68% of land area and 20.01% of the net land area)
Total Paved Area	2484.65 sqm (24.94% of net land area)	--	3868.68 sqm (24.95% of land area)
Service Area	--	--	113.5 sqm (0.73% of land area)
Plantation proposed	197 nos. (Existing trees 22 nos. to be retained)		
No. of Parking spaces provided	286 nos. (Open - 64, Covered - 223)	--	286 nos. (Open including mechanical - 72, Covered - 214)
Total Power Requirement	3390 KVA	--	1820 KVA
Solar Street Lights	10 nos.		
Backup Power	1x750 KVA, 1x1010 KVA	47 KVA	1x1250 KVA
Project Cost (Rs.)	62 crores	16 crores	78 crores

- The project proponent presented their EC application in the 31st reconstituted SEAC meeting held on 09.02.2022 and based on the submission and presentation made by the project proponent, the committee recommended that the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration:-

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- i. Declaration regarding name of project proponents.
- ii. Documents for amalgamation of two plots. Confirmation of the adequacy of strength of the existing foundation for additional floors should be provided.
- iii. Complete Land documents.
- iv. Swimming pool water requirement to be included in water balance.
- v. Revised EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020 should be modified and to be resubmitted. (Highlighting the point that, funds allocated for tree plantation to be used for some other activities) Items like hand washing station, toilet facility with running water, school infrastructure including incinerator for used sanitary napkins in case of girls' schools, provision for sufficient service water supply and treatment of drinking water, training on environmental awareness including MSW segregation etc. in nearby schools to be considered. Computer literacy training for the local youth may also be considered. Cost estimate budget should be provided for the EMP.
- vi. Water analysis and metering (totaliser) with recording should be provided for all segments of water supply, recycled and discharged wastewater with the compliance reports.
- vii. Quantity and percentage of solar power generated. The rooftop solar power plant should be installed. Design of PV panel array to be submitted.
- viii. Subsurface hydro-geological study of the area. Detail Chemical analysis of groundwater from at least nearby five wells along with their geographical location and depth should also be submitted with the hydrogeological report. Detail design of all artificial recharge structures should be submitted based on sub-surface geology.
- ix. Embankment maintenance plan for the waterbody. Treated water may be sent to the waterbody and the water overflowing from the waterbody should be discharged to public drainage. In that case, water analysis for the treated wastewater and the waterbody should be furnished.
- x. Flowsheet for the STP should be provided; how disinfection will be achieved that should be mentioned.

- The project site was inspected by WBPCB on 12.02.2022.
- The project proponent had submitted reply on 17.03.2022 in PARIVESH Portal, which was considered by the SEAC in the 36th meeting held on 23.03.2022. The SEAC scrutinized the documents submitted by the project proponent in the meeting and deliberated on the submissions made by the project proponent. The SEAC accepted the final proposal consisting of various environmental parameters and salient features and **recommended Environmental Clearance** for the proposed project.

2. Proposed Residential Complex by M/s. Brisk Sales Pvt. Ltd. & Others at Mouza – Raigachi No. 1, JL No. 12, PO & PS – Rajarhat, under Rajarhat Bishnupur No. 1 Gram Panchayat, Vill – Bhatenda, Raigachi Bottala, Rajarhat Main Road, Kolkata – 700 135, Dist – North 24 Parganas, West Bengal. (Proposal No. SIA/WB/MIS/120061/2019). Name of the Environmental Consultant is M/s. Centre for Sustainable Development. (VIOLATION CASE).

Activity:

- This is a proposal for Residential Complex comprising of 6 nos. B+G+11, 9 nos. G+13, 1 no. B+G+7 MLCP and 1 no. G+3 storied club. Total built up area 168245.41 sqm. and total land area 51497.46 sqm. Total no. of flats 1327.

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Chronology of the event:

- Salient features of the proposed project are –

Land Area	51,497.46 sq.m			
No. of Flat	1327 nos.			
Expected Population		Occupancy Type	No. of Occupants	
		Residents	7358 persons	
		Residential Floating	736 persons	
		Service Staff	100 persons	
		Total Occupants	8194 persons	
Block details	6 nos. B+G+11, 9 nos. G+13, 1 no. B+G+7 MLCP, 1 no. G+3 Club			
Total Water requirement	1104 KLD			
Fresh Water requirement	668 KLD			
Wastewater generated	807 KLD			
Wastewater recycled	411 KLD			
Wastewater discharged	356 KLD			
Solid waste disposal	Total - 4.07 tonne/day Organic - 1.63 tonne/day			
Total Built-up Area	1,67,492.40 sq.m			
Ground Coverage	19,166.29 sq.m (37.22%)			
Service Area	1485.57 sq.m (2.88%)			
Shaft Area	468.51 sq.m (0.91%)			
Internal Road Area	12,022.34 sq.m (23.35%)			
Semi Paved Area	6480.37 sq.m (12.58%)			
Tree Plantation Area	10,340.59 sq.m (20.08%)			
Soft Area	183.06 sq.m (0.36%)			
Other Green Area	1019.38 sq.m (1.98%)			
Swimming Pool	270.65 sq.m (0.52%)			
Water Body	60.70 sq.m (0.12%)			
No. of solar street lights Proposed	As per relevant guidelines			
No. of Parking spaces proposed	Car Parking Required: 684 (Tenements = 588, Club = 96) Car Parking Provided: 1268 Nos. [Covered Existing in Basement & Gr. = 133, Covered under construction = 152, Covered Proposed = 74, Covered in Podium = 113, Covered in MLCP = 478, Open Parking = 318]			
No. of Trees proposed	372 nos.			
Daily Power requirement (peak demand load)	5695 kW, WBSEDCL			
Backup Power	D.G. Sets of 2 X 500, 3 X 600 & 1 X 380 kVA			
Project Cost (Rs.)	Rs. 511.74 Crores			

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- The project proponent applied for ToR under violation case and presented their proposal for Terms of Reference in the 162nd SEAC meeting held on 14.09.2018.
- In accordance with the recommendation of the SEAC, ToR was issued vide memo no. 684-2N-43/2015 (E) dated 05.12.2018.
- The project proponent submitted Final EIA report on 27.01.2020 and presented their proposal for Final EIA report in the 187th SEAC meeting held on 01.02.2020.
- The Committee after deliberations recommended that the project proponent should submit the following:
 1. Revised project cost (detailed breakup including present value of land cost) of the entire project duly certified by the Competent Authority.
 2. Detailed survey report of the layout of the entire project area, especially the exclusive tree plantation area, by a registered Architect / Govt. empanelled surveyor.
 3. Plantation Plan.
 4. Summary chart of land schedule documents.
- The project proponent submitted their reply on 02.09.2020 which was considered in the 4th meeting of SEAC held on 09.10.2020 and the committee after scrutinizing the all relevant documents, recommended that the project proponent should submit the following clarifications/documents:
 - a) There is a mismatch in area statement in comparison to submitted sanctioned building plan. Necessary clarification and required document to be submitted.
 - b) Detailed survey report is not tallying with the submitted sanctioned building plan. Necessary clarification and required document to be submitted.
 - c) Land document belongs to HIDCO to be submitted.
- The project proponent submitted their reply on 10.12.2020, which was considered in the 8th meeting of reconstituted SEAC which was held on 22.12.2020. SEAC scrutinized the documents submitted by the project proponent in the meeting and recommended that a fresh inspection may be conducted to ascertain the present status of the project.
- An inspection was conducted on 23.01.2021, which was considered in the 13th reconstituted SEAC meeting held on 12.03.2021 and after detailed deliberation, SEAC accepted the final proposal consisting of various environmental parameters and salient features and recommended Environmental Clearance for the proposed project with the additional conditions in addition to standard conditions that the project proponent should strictly comply with the guidelines for High Rise Buildings, issued by MoEF, GoI vide No. 21-270/2008-IA.III dated 07.02.2012. However, the recommendation was not forwarded to SEIAA as a complaint from Shri Ankur Sharma has been received by WBPCB regarding filling of water bodies for construction of a residential complex namely 'Siddha Galaxia Phase II'.
- The phase I of the project consisting of 6 blocks of B+G+11 – completed and occupied.
- An inspection was conducted by the WBPCB on 05.10.2021.
- From the latest inspection report status of Phase II as given below:

Block / building	Storey	Construction completed	Total finish and hand over
06 nos.	G+13	Yes	Yes
02 nos.	G+13	No / ongoing	No
01 no.	G+13	No/not started	No
1 no. club block & 1 swimming pool	G+3	Civil construction completed	---
1 no. MLCP Block	B+G+7	Ongoing	---

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- From the inspection report mentioned above, it is observed that ‘no signs of filling of any waterbody as alleged or even existence of any live waterbody within the project area could be noted during inspection’.
- Considering the above, SEAC deliberated on the relevant documents as submitted by the project proponent earlier and also the complaint and inspection report. SEAC decided that the project proponent should submit the following documents / clarification through PARIVESH Portal:
 - i. Land conversion of the entire project.
 - ii. Sanction building plan for entire project.
 - iii. Remediation plan for violation project in line with the Order of the Principal Secretary, Department of Environment vide No.1312/EN/T-II-1/052/2016 dated 30.05.2018.
 - iv. Plantation plan in 1:100 scale mentioning number of trees and species.
 - v. Up to date construction status of the project (built up area and building profile).
- The project proponent had submitted reply on 18.01.2022 in PARIVESH Portal, which was considered by the SEAC in the 30th meeting held on 27.01.2022. SEAC scrutinized the documents submitted by the project proponent in the meeting. **SEAC observed that the project proponent had submitted the remediation plan amount based on 1.5% of the project cost. Since the project proponent had not submitted earlier application to SEIAA before taking up construction for the violation portion, the SEAC recommended that the remediation plan should be fixed at 2% of the project cost as per the Notification issued by the Principal Secretary, DoE, vide No. 1312/EN-II-1/052/2016 dated 30.05.2018.**
- The SEAC accepted the final proposal consisting of various environmental parameters and salient features and **recommended Environmental Clearance** for the proposed project under violation category and forwarded the proposal to SEIAA with the condition that -
 - a) the remediation plan should be fixed at 2% of the project cost as per the Notification issued by the Principal Secretary, DoE, vide No. 1312/EN-II-1/052/2016 dated 30.05.2018.
 - b) Flowmeters (including totaliser) with recorders for raw, treated, recycled and discharged wastewater should be installed and the recorded values should be submitted with half-yearly compliance reports.
- SEIAA considered the recommendation of SEAC in their 52nd meeting held on 11.03.2022 and refer back the proposal to SEAC for reappraisal the proposal under violation category with the following observations:-
 - a) The projects under violation category will be dealt as per MoEF&CC, GoI O.M No. No.22-21/2020-IA.III[E 138949] dated 28.01.2022 specifying the SOP for such projects.
 - b) The remediation plan submitted by the PP as 1.5% of the project cost is unacceptable whereas SEAC directed PP to submit the remediation plan as at 2% of the total project cost. The decision of the SEAC is affirmed and the PP is directed to submit the revised remediation plan accordingly. The remediation plan is decided on the basis of Order of the Principal Secretary, Department of Environment, GoWB vide No.1312/EN/T-II-1/052/2016 dated 30.05.2018.
 - c) All the necessary documents viz. Building Permit with sanction plans, Plantation Plan approved by DFO, Fire Permission, Airport Authority Permission, EMP based on need based activity for local people, permission for water extraction, detailed break up of project cost approved by Chartered Accountant and all other obligatory documents are required to be uploaded in the PARIVESH Portal.

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- The matter was considered by the SEAC in the 36th meeting held on 23.03.2022. After detailed deliberation the committee recommended that the project proponent should submit the abovementioned documents as directed by SEIAA and submit revised remediation plan at 2% of the total project cost as per Order of the Principal Secretary, Department of Environment, GoWB vide No.1312/EN/T-II-1/052/2016 dated 30.05.2018. Further the following documents should be provided :-
 - i) Comparative statement of the salient features of the total project.
 - ii) Damage Assessment Plan
 - iii) Remedial Plan.
 - iv) Community Augmentation Plan.
 - v) Authenticated project cost incurred till the date of submission of EC application for which violation is done along-with the total project cost. Also provide the gross turn over of the project.
 - vi) Complete land documents in the name of the project proponent.
 - vii) Permission from the competent authority regarding water supply.
 - viii) Detailed land use plan showing the area statement in sqm. and percentage of the plot area (adding upto 100%) should be provided.

The SEAC will further consider the case on submission of satisfactory reply on the above-mentioned queries through “PARIVESH” portal.

Industry sector

3. **Proposed Shree Kolkata Cement Plant (Clinker Grinding Unit) with Cement Production Capacity of 2.5 Million TPA (OPC, PPC, PSC, Composite Cement, SRC & RHPC), D.G. sets 1250 KVA (1000 KVA or 2 x 500 KVA & 250 KVA) along with Railway siding by M/s. Shree Cement North Pvt. Ltd. at Villages/Mouza - Kaijuri & Rauta, Near Birshibpur Railway Station, PS - Uluberia- I, Taluka - Uluberia, District - Howrah, West Bengal. (Proposal No. SIA/WB/IND/72230/2022) Name of the Environmental Consultant is M/s. J.M. EnviroNet Pvt. Ltd.**

Activity:

- This is a proposal for Shree Kolkata Cement Plant (Clinker Grinding Unit) with Cement Production Capacity of 2.5 Million TPA Cement (OPC, PPC, PSC, Composite Cement, SRC & RHPC) D.G. sets 1250 KVA (1000 KVA or 2 x 500 KVA & 250 KVA) along with Railway siding at Villages/Mouza - Kaijuri & Rauta, Near Birshibpur Railway Station, PS - Uluberia- I, Taluka - Uluberia, District - Howrah, West Bengal.

Chronology of the event:

- Salient features of the proposed project as uploaded in the PARIVESH portal are –

Location of the Site	Villages/Mouza - Kaijuri & Rauta, Near Birshibpur Railway Station, PS - Uluberia- I, Taluka - Uluberia, District - Howrah, West Bengal.
Latitude & Longitude	22°28'24.44" N to 22°28'41.08" N 088°03'53.10" E to 088°04'16.81" E
Land Area	11.532 ha (28.497 Acres)
Greenbelt Development	2.02 ha (5.0 acres) 17.55% of land area - mentioned in PFR & Form-I

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Raw Materials	Raw materials	OPC/RHPC/SRC	For PPC	for PSC	for Composite Cement
	Clinker	2.33 MTPA	1.45 MTPA	0.95 MTPA	0.95 MTPA
	Gypsum	0.17 MTPA	0.17 MTPA	0.17 MTPA	0.17 MTPA
	Fly ash	--	0.88 MTPA	--	0.88 MTPA
	Slag	--	--	1.38 MTPA	0.5 MTPA
	TOTAL	2.5 MTPA	2.5 MTPA	2.5 MTPA	2.5 MTPA
Manpower	during operation phase approx. 200 and during Implementation phase 250.				
Total Water Requirement	150 KLD				
Source of water	Ground water				
Power requirement	10.6 MW (Source - State Electricity Grid)				
Back up power	D.G. Sets of 1250 KVA (1000 KVA or 2 x 500 KVA & 250 KVA)				
Project Cost	Rs. 387.0 Crore				

- The project proponent presented their proposal for Terms of Reference in the 34th reconstituted SEAC meeting held on 09.03.2022 and based on the submission and presentation made by the project proponent, the committee recommended that the following submission / clarifications should be uploaded in the PARIVESH portal by the project proponent for further consideration: -
 - i. In the project feasibility report, the green belt area is mentioned as 2.02 ha. (5 acres) which is only about 17.55% of the land area. The project proponent should submit the DFO approved greenbelt plantation plan for atleast 33% of the plot area.
 - ii. Detailed layout plan showing the area statement in sqm. and percentage of the plot area (adding upto 100%) should be provided.
 - iii. Application for permission for water abstraction from the competent authority should be submitted. Surface water should be used instead of groundwater, an undertaking is required in this regard.
 - iv. Land conversion for the project should be obtained.
 - v. Present status of construction of the project.
 - vi. Tree felling permission from the competent authority.
 - vii. Traffic management plan should be submitted.
- The project proponent had submitted reply on 22.03.2022 in PARIVESH Portal, which was considered in the 36th SEAC meeting held on 23.03.2022. Based on the submission made by the project proponent, the committee after careful consideration and detailed deliberation **recommended the proposal for Terms of Reference** for conducting EIA study as per the provision of EIA Notification, 2006 and its amendments with the additional conditions that -
 - a) Total parcel of land to be converted in the name of the project proponent.
 - b) Tree felling permission from the competent authority.
 - c) DFO approved plantation plan to be submitted. The uploaded plantation plan should be revised avoiding plantation of button mangrove.

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4. Proposals for Brick Earth Mining of the following project proponents :

- a) Proposed Brick Earth Mining project by M/s. D. K. Enterprise (Area – 1.81 Acre) of Netai Das at Plot No. 276, 314, 315, 316, 354, 356 & 369, Vill & Mouza – Joypur, PO & PS – Bongaon, Dist – North 24 Parganas, West Bengal (Proposal No. SIA/WB/MIN/197063/2021) Name of the Environmental Consultant is M/s. Crystal Consultants.
- b) Proposed Brick Earth Mining project by M/s. Jogendra Prasad, Nogenra Prasad (Area – 5.06 Acre) at Plot No. 2571, 2573(p), 2575, 2576(p), 2577(p) & 2580, JL No. 106, Mouza - Budharugaon, PO - Bidhannagar, PS - Phansidewa, Dist - Darjeeling (Proposal No. SIA/WB/MIN/197894/2021) Name of the Environmental Consultant is M/s. Crystal Consultants.
- c) Proposed Brick Earth Mine of M/s. Dhriti Prova Bricks (Area – 2.01 Acre) at Plot No. 1638(p), 1646(p), 1647(p), 1649, 1652(p), 1653(p), 1655, 1656, 1657(p) & 1659, JL No. 69, Mouza – Prakash, PO – Uliara, PS – Bishnupur, District – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/198433/2021) Name of the Environmental Consultant is M/s. Crystal Consultants.
- d) Proposed Brick Earth Mine of M/s. Joti Bricks (Area – 2.13 Acre) at Plot No. 132 (p), 133 (p), 135 (p), 136 (p), 137 (p) & 138, JL No. 45, Mouza – Damodarpur, PO – Dabri, PS – Ranibandh, Dist – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/198485/2021) Name of the Environmental Consultant is M/s. Crystal Consultants.
- e) Proposed Brick earth Mine of M/s. S.H.T.H. Brick Field (Area – 5.55 Acre) at Plot No. 7783, 7784, 7893 (p), 7894, 7895, 7896 (p) & 7898, JL No. 54, Mouza – Maniknagar, Vill & PO – Kazisaha, PS – Beldanga, District – Murshidabad, West Bengal. (Proposal No. SIA/WB/MIN/198637/2021) Name of the Environmental Consultant is M/s. Crystal Consultants.
- f) Proposed Brick Earth Mine of Prasad Brick Field of M/s. Bishnupriya Halder (Area – 2.01 Acre) at Plot No. 155 & 156, JL No. 69, Mouza – Dibakarbati, Vill & PO & PS – Indas, District – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/207869/2021) Name of the Environmental Consultant is M/s. Crystal Consultants.

Chronology of the event:

- On scrutiny of the EC applications for brick earth mining which are pending with SEAC, it has been observed that none of the applicants submitted approved District Survey Report (DSR). In some cases, depth of mining written as 0 (zero). SEAC considered the matter in the 24th reconstituted SEAC meeting held on 17.11.2021 and recommended that the project proponents should submit the following:
 - 1) Approved DSR from competent authority along with the proposed depth of mining.
 - 2) Compliance of the Notification No. 379-ICE/O/MIN/GEN-MIS/76/2017 dated 24.09.2021 issued by the Dept. of Industry, Commerce & Enterprises, Govt. of West Bengal.
- These project proponents have submitted reply on 16.03.2022 in PARIVESH Portal, which was considered in the 36th SEAC meeting held on 23.03.2022. SEAC noted that the reply submitted by the project proponents are not at all satisfactory. Therefore, the project proponents are once again directed to upload valid LOI / permit from the competent authority and provide satisfactory reply to the queries mentioned above in the PARIVESH Portal.

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C. Miscellaneous.

- 1) **Validity extension of Environmental Clearance for the proposed 1.5 MTPA Cement Grinding Unit along with DG sets of capacity 2x5 MW of M/s. J K Lakshmi Cement Ltd. at Village – Benagari and Mukundpur, P.S. – Durlavpur, District – Bankura, West Bengal. (Proposal No. SIA/WB/IND/261325/2022).**

Activity:

- This is a proposal for 1.5 MTPA Cement Grinding Unit along with DG sets of capacity 2x5 MW.
- The project proponent had obtained Environmental Clearance vide no. 1081/EN/T-II-1/007/2014 dated 04.05.2015 issued by SEIAA for the project.
- Project proponent submitted six-monthly compliance report for EC to WBPCB on 16.02.2022.
- Now the project proponent applied in PARIVESH Portal on 08.03.2022 for extension of validity period for the EC for another 3 (three) years.

Chronology of the event:

- The matter was considered in the 36th SEAC meeting held on 23.02.2022 and it was **recommended** that the **validity extension of EC** may be granted for a period of **further 3 (three) years i.e. upto 03.05.2025** as per the EIA Notification, 2006 and its subsequent amendments.

Table-1 : List of the projects which were placed before the reconstituted SEAC in the thirty sixth meeting held on 23.03.2022 and the Summary Decisions thereof:

Sl. No.	Name of the unit & Project address	Summary Decision
A. Cases for Technical Presentation		
Construction Sector		
Environmental Clearance		
1.	M/s. Kolkata Heights Private Limited Proposed expansion of Residential Complex at Premises no. – 761, Madurdaha, Ward no. – 108, RS Dag No. 455 & 457, J.L. No. – 12, Mouza – Madurdaha, Borough – XII, Kolkata – 700107, P.S. – Anandpur, West Bengal. (Proposal No. SIA/WB/MIS/258304/2022).	Asked for additional submission
2.	M/s. Merlin Projects Limited Proposed residential project at Residential Complex at R.S/L.R. Dag No. – 144, 146, 149, 152, 153, 154, 155, 156, 157, 258, 259, 260, 261, 262, 263, 264(P), 265(P), 266(P), 267(P), 268, 270(P), 271, 275, 276, 277, 280, J.L. No. – 35, Mouza – Chapna, under Patharghata Gram Panchayat, P.O. & P.S. – Rajarhat, North 24 Parganas, Kolkata – 700135. (Proposal No. SIA/WB/MIS/250876/2022).	Asked for additional submission

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Sl. No.	Name of the unit & Project address	Summary Decision
Industry Sector		
3.	M/s. Medicare Environmental Management Pvt. Ltd. Proposed expansion project of existing Common Bio-Medical Waste Treatment Facility at 41, F-Road, Belgachia, PS – Liluah, PO & Dist – Howrah, West Bengal. (Proposal No. SIA/WB/MIS/47616/2019)	Asked for additional submission
B. Cases placed for reconsideration		
1.	M/s. Tollygunge Estates Pvt. Ltd. Proposed expansion of Residential project “TOLLY TOWERS” at 3, Netaji Subash Chandra Bose Road, KMC Ward No. 97, P.S: Regent Park, Kolkata-700040, West Bengal. (Proposal No. SIA/WB/MIS/248165/2021).	Recommended for Environmental Clearance
2.	M/s. Brisk Sales Pvt. Ltd. & Others Proposed Residential Complex at Mouza – Raigachi No. 1, JL No. 12, PO & PS – Rajarhat, under Rajarhat Bishnupur No. 1 Gram Panchayat, Vill – Bhatenda, Raigachi Bottala, Rajarhat Main Road, Kolkata – 700 135, Dist – North 24 Parganas, West Bengal. (Proposal No. SIA/WB/MIS/120061/2019). (VIOLATION CASE).	Asked for additional submission
3.	M/s. Shree Cement North Pvt. Ltd. Proposed Shree Kolkata Cement Plant (Clinker Grinding Unit) with Cement Production Capacity of 2.5 Million TPA (OPC, PPC, PSC, Composite Cement, SRC & RHPC), D.G. sets 1250 KVA (1000 KVA or 2 x 500 KVA & 250 KVA) along with Railway siding at Villages/Mouza - Kaijuri & Rauta, Near Birshibpur Railway Station, PS - Uluberia- I, Taluka - Uluberia, District - Howrah, West Bengal. (Proposal No. SIA/WB/IND/72230/2022)	Recommended for Terms of Reference
4.	Proposals for Brick Earth Mining of the following project proponents : a) M/s. D. K. Enterprise Proposed Brick Earth Mining project (Area – 1.81 Acre) of Netai Das at Plot No. 276, 314, 315, 316, 354, 356 & 369, Vill & Mouza – Joypur, PO & PS – Bongaon, Dist – North 24 Parganas, West Bengal (Proposal No. SIA/WB/MIN/197063/2021)	Asked for additional submission
b)	M/s. Jogendra Prasad, Nogendra Prasad Proposed Brick Earth Mining project (Area – 5.06 Acre) at Plot No. 2571, 2573(p), 2575, 2576(p), 2577(p) & 2580, JL No. 106, Mouza - Budharugaon, PO - Bidhannagar, PS - Phansidewa, Dist - Darjeeling (Proposal No. SIA/WB/MIN/197894/2021)	Asked for additional submission

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Sl. No.	Name of the unit & Project address	Summary Decision
c)	M/s. Dhriti Prova Bricks Proposed Brick Earth Mine (Area – 2.01 Acre) at Plot No. 1638(p), 1646(p), 1647(p), 1649, 1652(p), 1653(p), 1655, 1656, 1657(p) & 1659, JL No. 69, Mouza – Prakash, PO – Uliara, PS – Bishnupur, District – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/198433/2021)	Asked for additional submission
d)	M/s. Joti Bricks Proposed Brick Earth Mine (Area – 2.13 Acre) at Plot No. 132 (p), 133 (p), 135 (p), 136 (p), 137 (p) & 138, JL No. 45, Mouza – Damodarpur, PO – Dabri, PS – Ranibandh, Dist – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/198485/2021)	Asked for additional submission
e)	M/s. S.H.T.H. Brick Field Proposed Brick Earth Mine (Area – 5.55 Acre) at Plot No. 7783, 7784, 7893 (p), 7894, 7895, 7896 (p) & 7898, JL No. 54, Mouza – Maniknagar, Vill & PO – Kazisaha, PS – Beldanga, District – Murshidabad, West Bengal. (Proposal No. SIA/WB/MIN/198637/2021)	Asked for additional submission
f)	M/s. Bishnupriya Halder Proposed Brick Earth Mine of Prasad Brick Field (Area – 2.01 Acre) at Plot No. 155 & 156, JL No. 69, Mouza – Dibakarbat, Vill & PO & PS – Indas, District – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/207869/2021)	Asked for additional submission
C. Miscellaneous		
1.	M/s. J K Lakshmi Cement Ltd. Validity extension of Environmental Clearance for the proposed 1.5 MTPA Cement Grinding Unit along with DG sets of capacity 2x5 MW at Village – Benagari and Mukundpur, P.S. – Durlavpur, District – Bankura, West Bengal. (Proposal No. SIA/WB/IND/261325/2022).	Recommended for extension of validity period of EC for three years.

The meeting ended with a vote of thanks to and from the Chair.

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Bidhannagar.**

Sd/-

(Dr. Ashit Kumar Mukherjee)
Chairman
State Expert Appraisal Committee, West Bengal

Sd/-

(Dr. Nilangshu Bhusan Basu)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Dr. Pradip Kumar Sikdar)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Prof. (Dr.) Aniruddha Mukhopadhyay)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Dr. Anirban Gupta)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Prof. (Dr.) Sampa Chakrabarti)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Shri Subhendu Bandhopadhyay)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Dr. Indranath Sinha)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Dr. Goutam Kumar Saha)
Member
State Expert Appraisal Committee, West Bengal

Sd/-

(Roshni Sen, IAS)
Secretary
State Expert Appraisal Committee, West Bengal

ANNEXURE – 1

A planting prescription for this particular CBWTF for removal of pollutants etc.

Objectives:

1. To create a stratified greenbelt which would serve as an effective sink for gaseous pollutants and a sieve for suspended particulate materials
2. To buffer noise and heat
3. Trees also absorb odours and act as a filter as little particulates get trapped in leaves.
4. Fallen tree leaves lower reduce soil temperature and prevent soil from losing too much moisture. Decaying leaves that fall onto the ground turn into nutrients for tree growth and promote microorganism development.
5. Strategically planting trees around this unit can have tremendous benefits on the environment.

Total area of this CNWTF is 1.43 acres, 33% of which will be required for green belt development i.e. 0.4719 acres or 0.1910 ha or say 0.2 ha

On considering 2500 nos. of trees per ha, this CBWTF area will require 500 trees for raising greeneries around the unit.

Specie to be used for erection of a stratified green belt -

Scope	Name of the tree to be planted	Botanical Name	Utility	No of trees
Along periphery	Jamun	Sizygium cumini	Effective in absorbing sulphur di oxide	30
Along periphery	Tentul	Tamarindus indica	Capable of cleaning dust from the atmosphere	30
Along periphery	Teak	Tectona grandis	Can absorb SPM from the atmosphere	40
Middle row	Neem	Azadirachta indicca	Air purifier can remove lead from the atmosphere	100
Middle row	Kanchan	Bauhinia variegata	Can effectively remove lead from the atmosphere	100
Middle row	Palash	Butea monosperma	Can effectively remove dust from the atmosphere	50
Middle row	Silver oak	Grevillea robusta	Can effectively remove dust from the atmosphere	50
Front row	Ashok	Saraca indica	Effective sink of CO ₂ and other gaseous pollutants	70
Front row	Firebrush	Hamelia patens	Effective sink of CO ₂ and other gaseous pollutants	30

Top canopy plants along periphery.....100 nos

Middle storey plant.....300 nos

Lower strata plants.....100 nos

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Prescription for a model plantation:

Items of works	Nos/rmt	Time
A)ADVANCE SOIL WORKS		
1 Digging big pits of size 60+45/2*45*45 in cms along the periphery at a spacing of 3.0 mtr	100	Feb-March
2. Digging small pits of size 45+30/2*45*45 in cms at a spacing of 2.0mtr	400	Feb-March
B) Planting Operations		
1) Sowing seeds of Akashmoni seeds	500 rmt	June
2) Collection of dry cow dung manure or compost manure including pulverizing and mixing with dug up earth of pits and filling up the pits	500 nos	June
3) Planting the seedlings in the pits by making a crowbar hole after removal of poly pots/hycopots ,at the onset of rains including collection and carriage of the seedlings from the nursery	500	June-August
4) In filling vacancies by beating up casualties	100	August
5) 1 st Mulching with Fertilizer N.P.K(10:26:26) around the seedlings after a fortnight from the date of planting	500	Aug-Sept
6) 2 nd Mulching around the plant	500	Sept -Oct
7) 3 rd Mulching around the plant	500	Dec-Jan next
8) Watch and ward	500	July -March next
Maintenance 1st year		
1) Watch and ward	500	To be continued for the next fin. Year
2) In filling vacancies with onset of rains including collection of seedlings	200	July next
3) Mulching 1 st around the seedlings	500	Aug next
4) Mulching 2 nd around the seedlings	500	Oct next
Maintenance 2nd year		
1) Watch and ward	500	To be continued for next to next five year
2) Mulching 1 st around the seedlings	500	Sept
Maintenance 3rd year		
1) Watch and ward	500	For the entire 3 rd year of planting