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

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

In the beginning of the 16th meeting of the reconstituted State Expert Appraisal Committee (SEAC), which was held on 04.06.2021 at 12:30 p.m. through online mode at the Conference Room, Paribesh Bhawan, Bidhan Nagar, the Secretary, SEAC welcome all the members. After introductory session, technical presentations were made by applicants. Seventeen applicants were requested to make their presentation before the committee. Five applicants could not appear before the SEAC. Twelve applicants appeared before the SEAC for technical presentation on their respective project proposal. Two cases were placed for reconsideration cases.

A. Note on Technical presentations:-

For Environmental Clearance :

Industry Sector

- Proposed expansion of Steel Plant by installation of 3x15 T Induction Furnaces instead of 2x8 T Induction Furnaces with matching LRF & CCM to produce 148500 TPA billets and by increasing Rolling Mill capacity from 48000 TPA to 96000 TPA and setting up a Galvanizing unit of 160 MT/day by M/s. Gajanan Iron Private Limited at Jamuria Industrial Estate, Mandalpur, PO & PS – Jamuria, Dist – Paschim Bardhaman, West Bengal. (Proposal No. SIA/WB/IND/61399/2014)
 - Activity:
 - This is a proposal for expansion of Steel Plant by installation of 3x15 T Induction Furnaces instead of 2x8 T Induction Furnaces with matching LRF & CCM to produce 148500 TPA billets and by increasing Rolling Mill capacity from 48000 TPA to 96000 TPA and setting up a Galvanizing unit of 160 MT/day.

- The project proponent presented their proposal for Terms of Reference presentation in the 178th SEAC meeting held on 09.08.2019.
- In accordance with the recommendation of the SEAC, ToR was issued vide letter dated 20.08.2019.
- The project proponent submitted Final EIA report on 20.04.2021.

- The project proponent presented their proposal final EIA Report in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :
 - i. Six monthly EC compliance report.
 - ii. Land documents along with plot nos. showing the present status of ownership and status of conversion.
 - iii. Permission regarding withdrawal / supply of water from the Competent Authority.
 - iv. Emission control and its management for the galvanising unit.
 - v. Present status with photographs and proposed plan for green belt (with percentage) with photograph of the area. Action plan for the green belt development plan in 33% area with not less than 1500 nos/ha should be proposed.
 - vi. A planting plan in (1:100) scale corresponding to the tree list mentioning spacing etc. is to be submitted. It is suggested to undertake planting programme with species like <u>Azadirachta indica</u>, <u>Dalbergia</u> <u>Sissoo</u>, <u>Dalbergia latifolia</u>, <u>Albizia lebbeck</u>, <u>Alstonia scholaris</u>, <u>Mimusops elengi</u>, <u>Artocarpus integrifolia</u>, <u>Cordia sebastina</u>, <u>Tectona grandis</u> and <u>Mangifera indica</u> to name a few.
 - vii. Due care should be taken to protect the green belt already developed. A third party may be engaged to monitor the rate of survival percentage of the planted trees. Areas having low density vegetation should be systematically and scientifically reforested in consultation with local forest department.
 - viii. Revised water balance including rainwater harvesting.
 - ix. Revised EMP to be submitted as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020. Items like solar lighting, dedicated internet connection in the schools may be considered.
 - x. Details of wastewater/cooling water treatment plant should be furnished along with wastewater analysis before and after treatment.
 - xi. The amenities to be provided for 100 workers should be indicated. Drinking water treatment facility to be indicated.
 - xii. Prevailing thermal conditions and noise levels in rolling mill area and control measures should be adopted.
 - xiii. Photographs of the exact site to find the existing status
 - xiv. Details of locations where baseline measurements (air, water, noise) were made. Baseline data within factory premises (air, noise) is important.
 - xv. Proposed storage pond for rainwater harvesting will be lined on all sides and bottom if rainwater harvested from industries are allowed for recharging the groundwater through surface ponds, then lining of the pond is not going to serve the purpose in arid regions like Jamuria.
 - xvi. Flue gas characteristics and temp (before any treatment/conditioning) should be specified.
 - xvii. Hazardous waste characteristics, quantity and storage plan/facility should be indicated
 - xviii. Specific water consumption (water quantity per unit quantity of product) may be mentioned

The SEAC will consider the case on submission of the above mentioned documents.

- Proposed expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA by M/s. JSW Cement Ltd. at Salboni, Dist – Paschim Medinipur, West Bengal. (Proposal No. SIA/WB/IND/19745/2016) Activity:
 - This is a proposal for expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA.

Chronology:

- The project proponent presented their proposal for Terms of Reference presentation in the 164th SEAC meeting held on 20.11.2018.
- In accordance with the recommendation of the SEAC, ToR was issued vide letter dated 05.12.2018.
- The project proponent submitted Final EIA report.
- The project proponent was asked to presented their proposal for final EIA Report in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications:
 - a) Detailed plant layout mentioning the area percentage clearly depicting the existing and the proposed plant area, other accessories and green belt with photographs.
 - b) Water withdrawal permission from the Competent Authority.
 - c) Analysis report of solid waste and waste water.
 - d) Proper water balance diagram and rainwater harvesting. Details of STP should be furnished.
 - e) Impact of ground water withdrawal on the water table. Drinking water treatment facility to be indicated.
 - f) Work place fugitive emission monitoring report.
 - g) Occupational health study report including COVID vaccination.
 - h) A planting plan in (1:100) scale corresponding to the tree list mentioning spacing etc. is to be submitted. Mango, Mahul, Sissoo, Chatiwan, Bokul, Teak and Bamboos etc. can be selected for planting. Planting of Neem trees helps reduce greenhouse gases through photosynthesis absorbing large quantities of Carbon-di-oxide.
 - i) Photographs of the exact site to find the existing status
 - j) Flue gas characteristics and temp (before any treatment/conditioning) should be specified.
 - k) Details of locations where baseline measurements (air, water, noise) were made. Baseline data within factory premises (air, noise) is important.
 - I) Which model has been used for worst case scenario estimation for air quality
 - m) Wastewater treatment units should be specified
 - n) Specific water consumption (water quantity per unit quantity of product) may be mentioned

The SEAC will consider the case on submission of the above mentioned documents.

Proposed Berada Quartz Mine project (Area – 1.092 Ha.) by M/s. Kalkons at Plot No. 2860, 2855(P), 2857, 2858, JL No. 104, Mouza – Berada, Block – Barabazar, Dist – Purulia, West Bengal. (Proposal No. SIA/WB/MIN/187407/2020)

Activity:

This is a proposal for Berada Quartz Mine project (Area – 1.092 Ha.) project of capacity 19403.54 MT/year at 2860, 2855(P), 2857, 2858, JL No. 104, Mouza – Berada, Block – Barabazar, Dist – Purulia, West Bengal.

Chronology:

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Valid LOI from the Competent Authority should be submitted.
 - 2) Mitigation measures adopted for emission of silica dust. Drinking water treatment facility to be indicated.
 - 3) Greenbelt plantation plan (with photographs of area) including area percentage.
 - 4) Measures adopted for top soil conservation.
 - 5) Measures adopted for slope stabilisation.
 - 6) Study report on impact dust emission during transportation.
 - 7) Preventive measures to minimise the impact of dust emission during transportation should be adopted.
 - 8) Post monsoon water level study at up slope and down slope.
 - 9) Photographs of the exact site to find the existing status
 - 10) Noise mitigation during drilling/blasting and health protection of workers
 - 11) New road and road development during transportation
 - 12) Health monitoring of workers.
 - 13) Design of garland drain around the overburden dump area should be indicated.

The SEAC will consider the case on submission of the above mentioned documents.

 Proposed Riverbed Sand Mine MGB 162 (Area – 5.00 Ha.) on Subarnarekha River by Sri Srikanta Mondal on Plot No. 583(P), PS – Beliaberah, JL No. 372, Mouza – Dangariai, Dist – Jhargram, West Bengal. (Proposal No. SIA/WB/MIN/175223/2020)

Activity:

 This is a proposal for Riverbed Sand Mine MGB 162 (Area – 5.00 Ha.) project of capacity 23.19 m3/day on Subarnarekha River at Plot No. 583(P), PS – Beliaberah, JL No. 372, Mouza – Dangariai, Dist – Jhargram, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Valid LOI from the Competent Authority should be submitted.
 - 2) Certificate / Undertaking regarding cluster formation to be obtained from the Competent Authority.
 - 3) Comprehensive Environment Management Plan (EMP), Plantation Plan, Depth of river bed should be re-casted and resubmitted. EMP to be submitted as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020.
 - 4) Proposal for setting up of ambient air quality monitoring stations.
 - 5) Source of water for drinking and other purposes should be specified. Only potable water should be collected from Panchayat with proper permission. Permission should be submitted. Water for other purposes should be taken from the river.

- 6) A declaration regarding any intermediate stock piling should be submitted and if any, pollution control plan for such storage should be indicated.
- 7) Details of access road including ownership to the project should be submitted.
- 8) Ground water study to be conducted in the buffer area. The depths of groundwater/base flow in the mining lease hold area should be resubmitted.
- 9) Distance from the centre of the mining lease hold area (MLHA) to the nearest bridge on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
- 10) Distances from the centre of the mining lease hold area to the nearest riverbed tubewells / public water supply scheme (if any) on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
- 11) Replenishment study in compliance with the Sustainable Sand Mining Guidelines 2020 to be submitted.
- 12) Ergonomic study and health effect due to exposure from silica should be submitted.
- 13) The PP should obtain necessary certificate from the D.F.O concerned specifying clearly whether the mining area or areas are occasionally visited or forms a part of the movement corridor or forms a part of the habitat for an animal or animals belonging to Schedule I of Wild Life Protection Act. A comprehensive conservation plan is required to be prepared in consultation with the Dept. of Forests if anyone of those points is affirmed by the DFO concerned.
- 14) A time bound progressive green belt development plan should be submitted indicating the linear and quantitative coverage, plant species and time frame. The species selected for green belt should have greater ecological value with emphasis on local, native and pioneer species which are pollution tolerant as well. To name a few, <u>Vachellia nilotica</u>, <u>Casuarina equisetifolia</u>, <u>Albizia procera</u>, <u>Albizia lebbeck</u>, <u>Dalbergia sissoo</u>, <u>Adina cordifolia</u> etc. can be tried in riverine belt while Teak, Neem, kanthal, Jhau, Bahera, Haritoki, Amloki etc. can be tried on either side of the haul roads and other areas on considering the dust interception efficiency and impact of dust deposition on chlorophyll and ascorbic acid content of leaves.
- 15) Agreement with panchayat regarding allotment of land for tree plantation and its maintenance (with photograph of the proposed land).
- 16) Plantation plan duly approved by the concerned Divisional Forest Officer should be submitted. All corner Co-ordinates of the plantation area super imposed on a high resolution imagery/toposheet should be provided.
- 17) Photographs of the exact site and new access roads to find the existing status.

The SEAC will consider the case on submission of the above mentioned documents.

Proposed Gopiballavpur - II Sand Mine MGB-20 (Area – 5.00 Ha.) by Sk. Jakir Hossen on Plot No. 1561(P), JL No. 194, Vill – Malincha, Mouza & PO – Malincha, PS – Beliaberah, Dist – Jhargram, West Bengal, PIN – 721 517. (Proposal No. SIA/WB/MIN/193106/2021)

Activity:

This is a proposal for Gopiballavpur - II Sand Mine MGB-20 (Area – 5.00 Ha.) project of capacity 86716 m3/year on Plot No. 1561(P), JL No. 194, Vill – Malincha, Mouza & PO – Malincha, PS – Beliaberah, Dist – Jhargram, West Bengal, PIN – 721 517.

Chronology:

- The project proponent was asked to presented their EC proposal in the in the 16th reconstituted SEAC meeting held on 04.06.2021. Project proponent did not appear for the presentation. The case will be considered further once SEAC receive request from the project proponent.
- Proposed Gopiballavpur II Sand Block MGB-56 (Area 5.00 Ha.) by Sri Altaf Hossain on Subarnarekha River at Plot No. 336(P) & 337(P), JL No.155, Vill & Mouza – Bhutkahalia, PO & PS – Beliaberah, Dist – Jhargram, PIN – 721 517, West Bengal. (Proposal No. SIA/WB/MIN/191553/2021) Activity:
 - This is a proposal for Gopiballavpur II Sand Block MGB-56 (Area 5.00 Ha.) project of capacity 84600 m3/year on Subarnarekha River at Plot No. 336(P) & 337(P), JL No.155, Vill & Mouza Bhutkahalia, PO & PS Beliaberah, Dist Jhargram, PIN 721 517, West Bengal.

Chronology:

- The project proponent was asked to presented their EC proposal in the in the 16th reconstituted SEAC meeting held on 04.06.2021. Project proponent did not appear for the presentation. The case will be considered further once SEAC receive request from the project proponent.
- Proposed Subarnarekha Riverbed Sand Mine (Area 3.72 Ha.) on Subarnarekha River by Sri Sushanta Mondal at Plot No. 425(P), JL No. 67, Mouza – Chabukya, PS – Sankrail, Dist – Jhargram, West Bengal. (Proposal No. SIA/WB/MIN/181121/2020)

Activity:

 This is a proposal for Subarnarekha Riverbed Sand Mine (Area – 3.72 Ha.) project on Subarnarekha River of capacity 235.72 m3/day at Plot No. 425(P), JL No. 67, Mouza – Chabukya, PS – Sankrail, Dist – Jhargram, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Valid LOI from the Competent Authority should be submitted.
 - 2) Certificate / Undertaking regarding cluster formation to be obtained from the Competent Authority.
 - Comprehensive Environment Management Plan (EMP), Plantation Plan, Depth of river bed should be re-casted and resubmitted. EMP to be submitted as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020.
 - 4) Proposal for setting up of ambient air quality monitoring stations.
 - 5) Source of water for drinking and other purposes should be specified. Only potable water should be collected from Panchayat with proper permission. Permission should be submitted. Water for other purposes should be taken from the river.
 - 6) A declaration regarding any intermediate stock piling should be submitted and if any, pollution control plan for such storage should be indicated.
 - 7) Details of access road including ownership to the project should be submitted.
 - 8) Ground water study to be conducted in the buffer area. The depths of groundwater/base flow in the mining lease hold area should be resubmitted.
 - 9) Distance from the centre of the mining lease hold area (MLHA) to the nearest bridge on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.

- 10) Distances from the centre of the mining lease hold area to the nearest riverbed tubewells / public water supply scheme (if any) on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
- 11) Replenishment study in compliance with the Sustainable Sand Mining Guidelines 2020 to be submitted.
- 12) Ergonomic study and health effect due to exposure from silica should be submitted.
- 13) The PP should obtain necessary certificate from the D.F.O concerned specifying clearly whether the mining area or areas are occasionally visited or forms a part of the movement corridor or forms a part of the habitat for an animal or animals belonging to Schedule I of Wild Life Protection Act. A comprehensive conservation plan is required to be prepared in consultation with the Dept. of Forests if anyone of those points is affirmed by the DFO concerned.
- 14) A time bound progressive green belt development plan should be submitted indicating the linear and quantitative coverage, plant species and time frame. The species selected for green belt should have greater ecological value with emphasis on local, native and pioneer species which are pollution tolerant as well. To name a few, <u>Vachellia nilotica</u>, <u>Casuarina equisetifolia</u>, <u>Albizia procera</u>, <u>Albizia lebbeck</u>, <u>Dalbergia sissoo</u>, <u>Adina cordifolia</u> etc. can be tried in riverine belt while Teak, Neem, Kanthal, Jhau, Bahera, Haritoki, Amloki etc. can be tried on either side of the haul roads and other areas on considering the dust interception efficiency and impact of dust deposition on chlorophyll and ascorbic acid content of leaves.
- 15) Agreement with panchayat regarding allotment of land for tree plantation and its maintenance.
- 16) Plantation plan duly approved by the concerned Divisional Forest Officer should be submitted. All corner Co-ordinates of the plantation area super imposed on a high resolution imagery/toposheet should be provided.
- 17) Photographs of the exact site and new access roads to find the existing status

The SEAC will consider the case on submission of the above mentioned documents.

- Proposed Tiura Silica Sand, Fire Clay and Morram Mine (Area 3.44 Ha.) by Shri Susanta Ghosh at Plot No. 140 to 143, 148, 202 & 204, JL No. 78, Vill & Mouza – Tiura, PS – Sonamukhi, Dist – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/198736/2021) Activity:
 - This is a proposal for Tiura Silica Sand, Fire Clay and Morram Mine (Area 3.44 Ha.) project of capacity 30448111.5 m3/annum at Plot No. 140 to 143, 148, 202 & 204, JL No. 78, Vill & Mouza Tiura, PS Sonamukhi, Dist Bankura, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :
 - a) Valid LOI from the Competent Authority should be submitted.
 - b) Measures initiation of dust emission during transportation. Preventive measures to be taken to minimise the dust emission during transportation and safe dispatch.
 - c) Occupational health study report.
 - d) Mine closure plan after excavation since the depth is too large.

- e) Stability Analysis and Management Plan and shore protection plan.
- f) Greenbelt plantation plan including area percentage.
- g) The project proponent should submit a stability plan along with a representative soil test reports in close pitches all around. Moreover, they should also give detailed study of slip circle formation likely to cause land subsidence of the contiguous areas both during mining and later with its mitigation plan, alongwith safe closer methodology for living entities likely to slip in the gorge created for such mining.
- h) The project proponent should obtain necessary certificate from the D.F.O concerned specifying clearly whether the mining area or areas are occasionally visited or forms a part of the movement corridor or forms a part of the habitat for an animal or animals belonging to Schedule I of Wild Life Protection Act. A comprehensive conservation plan is required to be prepared in consultation with the Dept. of Forests if anyone of those points is affirmed by the DFO concerned.
- i) Elephant proof trench is proposed to dig all along the periphery to control movement of animals and prevent those from entering into the project site to be considered.
- j) Photographs of the exact site and new access roads to find the existing status
- k) Source of water to make slurry and permission of water
- I) Noise and air pollutants considering wildlife habitat
- m) Possible risks during mining and deep excavation and their mitigation plan
- n) Water logging in the excavation during rainy season and drainage plan
- o) Impact of deep excavation on groundwater quality and flow

The SEAC will consider the case on submission of the above mentioned documents.

- Proposed Gopiballavpur II Sand Block MGB 11 (Area 5.00 Ha.) by Sri Anupam Senapati at Plot No. 1057 (p), J.L. No. 188, Village – Pithapur, Mouza – Pithapur, PO – Malincha, PS – Beliaberah, District – Jhargram, West Bengal, Pin – 721 517. (Proposal No. SIA/WB/MIN/192997/2021) Activity:
 - This is a proposal for Gopiballavpur II Sand Block MGB 11 (Area 5.00 Ha.) project of capacity 86588 m3/year at Plot No. 1057 (p), J.L. No. 188, Village Pithapur, Mouza Pithapur, PO Malincha, PS Beliaberah, District Jhargram, West Bengal, Pin 721 517.

- The project proponent was asked to presented their EC proposal in the in the 16th reconstituted SEAC meeting held on 04.06.2021. Project proponent did not appear for the presentation. The case will be considered further once SEAC receive request from the project proponent.
- Proposed Rerapal Sand Block MSB-41 (Area 4.08 Ha.) by Sri Jagadish Ghosh at Plot No. 552 (p) & 700 (p), J.L. No. 132, Village Rerapal, Mouza Rerapal, PO Monidaha, PS Medinipur, District Paschim Medinipur, West Bengal, Pin 721 102. (Proposal No. SIA/WB/MIN/192606/2021) Activity:
 - This is a proposal for Rerapal Sand Block MSB-41 (Area 4.08 Ha.) project of capacity 68200 m3/year at Plot No. 552 (p) & 700 (p), J.L. No. 132, Village – Rerapal, Mouza – Rerapal, PO – Monidaha, PS – Medinipur, District – Paschim Medinipur, West Bengal, Pin – 721 102.

Chronology:

- The project proponent was asked to presented their EC proposal in the in the 16th reconstituted SEAC meeting held on 04.06.2021. Project proponent did not appear for the presentation. The case will be considered further once SEAC receive request from the project proponent.
- Proposed Palla Sand Mining project (Area 2.76 Ha.) on Damodar River by Sri Chandan Garai on Plot No. 4020(P), 4027, 4028, 4029, 4030(P), 4031(P), 4037(P), 4039(P), Mouza Palla, JL No. 45, PS Memari, Dist Purba Bardhaman, West Bengal, PIN 713 146. (Proposal No. SIA/WB/MIN/186827/2020) Activity:
 - This is a proposal for Palla Sand Mining project (Area 2.76 Ha.) project on Damodar River of capacity 59940 tonnes/annum at Plot No. 4020(P), 4027, 4028, 4029, 4030(P), 4031(P), 4037(P), 4039(P), Mouza Palla, JL No. 45, PS Memari, Dist Purba Bardhaman, West Bengal, PIN 713 146.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Valid LOI from the Competent Authority should be submitted.
 - 2) Certificate / Undertaking regarding cluster formation to be obtained from the Competent Authority.
 - 3) Comprehensive Environment Management Plan (EMP), Plantation Plan, Depth of river bed should be re-casted and resubmitted. EMP to be submitted as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020.
 - 4) Proposal for setting up of ambient air quality monitoring stations.
 - 5) Source of water for drinking and other purposes should be specified. Only potable water should be collected from Panchayat with proper permission. Permission should be submitted. Water for other purposes should be taken from the river.
 - 6) A declaration regarding any intermediate stock piling should be submitted and if any, pollution control plan for such storage should be indicated.
 - 7) Details of access road including ownership to the project should be submitted.
 - 8) Ground water study to be conducted in the buffer area. The depths of groundwater/base flow in the mining lease hold area should be resubmitted.
 - 9) Distance from the centre of the mining lease hold area (MLHA) to the nearest bridge on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
 - 10) Distances from the centre of the mining lease hold area to the nearest riverbed tubewells / public water supply scheme (if any) on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
 - 11) Replenishment study in compliance with the Sustainable Sand Mining Guidelines 2020 to be submitted.
 - 12) Ergonomic study and health effect due to exposure from silica should be submitted.
 - 13) The PP should obtain necessary certificate from the D.F.O concerned specifying clearly whether the mining area or areas are occasionally visited or forms a part of the movement corridor or forms a part of the habitat for an animal or animals belonging to Schedule I of Wild Life Protection Act. A comprehensive conservation plan is required to be prepared in consultation with the Dept. of

Forests if anyone of those points is affirmed by the DFO concerned.

- 14) A time bound progressive green belt development plan should be submitted indicating the linear and quantitative coverage, plant species and time frame. The species selected for green belt should have greater ecological value with emphasis on local, native and pioneer species which are pollution tolerant as well.
- 15) Agreement with panchayat regarding allotment of land for tree plantation and its maintenance.
- 16) Plantation plan duly approved by the concerned Divisional Forest Officer should be submitted. All corner Co-ordinates of the plantation area super imposed on a high resolution imagery/toposheet should be provided.

The SEAC will consider the case on submission of the above mentioned documents.

 Proposed Riverbed Sand Mining project (Area – 3.22 Ha.) on Damodar River by Sri Sanjay Bhakta on Plot No. 1859(P), 1860(P), & Ors., JL No. 32, Mouza – Bangpur, PS – Bardhaman, Dist – Purba Bardhaman, West Bengal. (Proposal No. SIA/WB/MIN/183731/2020)

Activity:

This is a proposal for Riverbed Sand Mining project (Area – 3.22 Ha.) on Damodar River of capacity 335 m3/day at Plot No. 1859(P), 1860(P), & Ors., JL No. 32, Mouza – Bangpur, PS – Bardhaman, Dist – Purba Bardhaman, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Valid LOI from the Competent Authority should be submitted.
 - 2) Certificate / Undertaking regarding cluster formation to be obtained from the Competent Authority.
 - Comprehensive Environment Management Plan (EMP), Plantation Plan, Depth of river bed should be re-casted and resubmitted. EMP to be submitted as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020.
 - 4) Proposal for setting up of ambient air quality monitoring stations.
 - 5) Source of water for drinking and other purposes should be specified. Only potable water should be collected from Panchayat with proper permission. Permission should be submitted. Water for other purposes should be taken from the river.
 - 6) A declaration regarding any intermediate stock piling should be submitted and if any, pollution control plan for such storage should be indicated.
 - 7) Details of access road including ownership to the project should be submitted.
 - 8) Ground water study to be conducted in the buffer area. The depths of groundwater/base flow in the mining lease hold area should be resubmitted.
 - 9) Distance from the centre of the mining lease hold area (MLHA) to the nearest bridge on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
 - 10) Distances from the centre of the mining lease hold area to the nearest riverbed tubewells / public water supply scheme (if any) on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.

- 11) Replenishment study in compliance with the Sustainable Sand Mining Guidelines 2020 to be submitted.
- 12) Ergonomic study and health effect due to exposure from silica should be submitted.
- 13) No Objection Certificate from the Competent Authority clearly specifying whether the proposed mining area forms a part of the habitat or a part of the movement corridor of migratory elephants and other endangered fauna should be submitted. A comprehensive conservation plan in view of the seasonal elephant movement duly approved by the concerned Divisional Forest Officer should be submitted.
- 14) A time bound progressive green belt development plan should be submitted indicating the linear and quantitative coverage, plant species and time frame. The species selected for green belt should have greater ecological value with emphasis on local, native and pioneer species which are pollution tolerant as well.
- 15) Photographs of the exact site and new access roads to find the existing status.

The SEAC will consider the case on submission of the above mentioned documents.

 Proposed Purbator Sand Mining project 0105DM018 (Area – 4.54 Ha.) on Damodar River by Sri Santosh Kumar Chourasia at Plot No. 970(P), JL No. 67, Mouza – Purbator, Block & PS – Mejhia, Dist – Bankura, West Bengal. (Proposal No. SIA/WB/MIN/184993/2020)

Activity:

This is a proposal for Purbator Sand Mining project 0105DM018 (Area – 4.54 Ha.) on Damodar River of capacity 206002.44 tonnes/annum at Plot No. 970(P), JL No. 67, Mouza – Purbator, Block & PS – Mejhia, Dist – Bankura, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Valid LOI from the Competent Authority should be submitted.
 - 2) Certificate / Undertaking regarding cluster formation to be obtained from the Competent Authority.
 - Comprehensive Environment Management Plan (EMP), Plantation Plan, Depth of river bed should be re-casted and resubmitted. EMP to be submitted as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020.
 - 4) Proposal for setting up of ambient air quality monitoring stations. Air-pollution may be caused by the vehicles and DG set.
 - 5) Source of water for drinking and other purposes should be specified. Only potable water should be collected from Panchayat with proper permission. Permission should be submitted. Water for other purposes should be taken from the river.
 - 6) A declaration regarding any intermediate stock piling should be submitted and if any, pollution control plan for such storage should be indicated.
 - 7) Details of access road including ownership to the project should be submitted.
 - 8) Ground water study to be conducted in the buffer area. The depths of groundwater/base flow in the mining lease hold area should be resubmitted.

- 9) Distance from the centre of the mining lease hold area (MLHA) to the nearest bridge on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
- 10) Distances from the centre of the mining lease hold area to the nearest riverbed tubewells / public water supply scheme (if any) on the downstream and upstream of the MLHA in compliance with the Sustainable Sand Mining Guidelines 2020.
- 11) Replenishment study in compliance with the Sustainable Sand Mining Guidelines 2020 to be submitted.
- 12) Ergonomic study and health effect due to exposure from silica should be submitted.
- 13) The PP should obtain necessary certificate from the D.F.O concerned specifying clearly whether the mining area or areas are occasionally visited or forms a part of the movement corridor or forms a part of the habitat for an animal or animals belonging to Schedule I of Wild Life Protection Act. A comprehensive conservation plan is required to be prepared in consultation with the Dept. of Forests if anyone of those points is affirmed by the DFO concerned.
- 14) A time bound progressive green belt development plan should be submitted indicating the linear and quantitative coverage, plant species and time frame. The species selected for green belt should have greater ecological value with emphasis on local, native and pioneer species which are pollution tolerant as well. To name a few, <u>Vachellia nilotica</u>, <u>Casuarina equisetifolia</u>, <u>Albizia procera</u>, <u>Albizia lebbeck</u>, <u>Dalbergia sissoo</u>, <u>Adina cordifolia</u> etc. can be tried in riverine belt while Teak, Neem, Kanthal, Jhau, Bahera, Haritoki, Amloki etc. can be tried on either side of the haul roads and other areas on considering the dust interception efficiency and impact of dust deposition on chlorophyll and ascorbic acid content of leaves.
- 15) Agreement with panchayat regarding allotment of land for tree plantation and its maintenance.
- 16) Plantation plan duly approved by the concerned Divisional Forest Officer should be submitted. All corner Co-ordinates of the plantation area super imposed on a high resolution imagery/toposheet should be provided.
- 17) Durgapur Bidhan Nagar Govt. High School is far off from the project site. A local village school may be considered.
- 18) Photographs of the exact site and new access roads to find the existing status.

The SEAC will consider the case on submission of the above mentioned documents.

Proposed Brick Earth Mine project (Area – 1.3152 Ha.) by M/s. Sayed Mia Brick Field at Plot No. 825, 826, 827 & 828, JL No. 27, Mouza – Rahutgaon, PS – Malda, Dist – Malda, West Bengal. (Proposal No. SIA/WB/MIN/189642/2020)

Activity:

This is a proposal for Brick Earth Mine project (Area – 1.3152 Ha.) of capacity 8.21 m3/day at Plot No. 825, 826, 827 & 828, JL No. 27, Mouza – Rahutgaon, PS – Malda, Dist – Malda, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :
 - a) Management of top soil.

- b) Post monsoon groundwater depth.
- c) Present site photographs and photos of new access roads to find the existing status.
- d) Closure plan / future utilisation plan.
- e) Distance from mango orchard.
- f) Permission / query permit from BL & LRO.
- g) Land records and ownership of land
- h) Approved Mining Plan.
- i) Monitoring of arsenic and fluoride in groundwater in at least three locations.

The SEAC will consider the case on submission of the above mentioned documents.

 Proposed Brick Earth Mining project (Area – 0.4087 Ha.) by M/s. Lux Brick Field at Plot No. 42, JL No. 176, PS - Harishchandrapur, Dist – Malda, West Bengal. (Proposal No. SIA/WB/MIN/189216/2020) Activity:

This is a proposal for Brick Earth Mining project (Area – 0.4087 Ha.) of capacity 3.56 m3/day at Plot No.
 42, JL No. 176, PS - Harishchandrapur, Dist – Malda, West Bengal.

Chronology:

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Management of top soil.
 - 2) Post monsoon groundwater depth.
 - 3) Present site photographs and photos of new access roads to find the existing status.
 - 4) Closure plan / future utilisation plan.
 - 5) Distance from mango orchard.
 - 6) Permission / query permit from BL & LRO.
 - 7) Land records and ownership of land
 - 8) Approved Mining Plan.
 - 9) Monitoring of arsenic and fluoride in groundwater in at least three locations.

The SEAC will consider the case on submission of the above mentioned documents.

Proposed Brick Earth Mining project (Area – 0.6758 Ha.) by M/s. Elora Brick Field at Plot No. 1424, 1425, 1510, 1511, JL No. 282, Mouza – Batijora, PS – Gazole, Dist – Malda, West Bengal. (Proposal No. SIA/WB/MIN/186855/2020)

Activity:

 This is a proposal for Brick Earth Mining project (Area – 0.6758 Ha.) of capacity 554363 number of brick/year at Plot No. 1424, 1425, 1510, 1511, JL No. 282, Mouza – Batijora, PS – Gazole, Dist – Malda, West Bengal.

- The project proponent presented their proposal in the 16th reconstituted SEAC meeting held on 04.06.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :-
 - 1) Management of top soil.

- 2) Post monsoon groundwater depth.
- 3) Present site photographs and photos of new access roads to find the existing status.
- 4) Closure plan / future utilisation plan.
- 5) Distance from mango orchard.
- 6) Permission / query permit from BL & LRO.
- 7) Land records and ownership of land.
- 8) Approved Mining Plan.
- 9) Monitoring of arsenic and fluoride in groundwater in at least three locations.

The SEAC will consider the case on submission of the above mentioned documents.

17. Proposed Sand Mining project (Area – 1.91 Ha.) by Shri Uttam Kumar Mahato at Plot No. 1, JL No. 191, Mouza – Ayodhya, Block & PS – Barabazar, Dist – Purulia, West Bengal. (Proposal No. SIA/WB/MIN/195678/2021)

Activity:

This is a proposal for Sand Mining project (Area – 1.91 Ha.) from Kumari River of capacity 5822.64 m3/year at Plot No. 1, JL No. 191, Mouza – Ayodhya, Block & PS – Barabazar, Dist – Purulia, West Bengal.

Chronology:

• The project proponent was asked to presented their EC proposal in the in the 16th reconstituted SEAC meeting held on 04.06.2021. Project proponent did not appear for the presentation. The case will be considered further once SEAC receive request from the project proponent.

B. <u>Reconsideration Proposals :-</u>

Two reconsideration proposals were placed in the meeting.

Construction Sector: -

 Proposed Commercial Building for Trading (Business) and other allied purposes by M/s. SRPM Haat LLP at JL No. 29, Mouza – Prasastha, and JL No. 30, Mouza – Ankurhati, PS – Domjur, Mohiary GP, Dist – Howrah, West Bengal. (Proposal No. SIA/WB/MIS/183102/2020).

Activity:

This is a proposal for a commercial building for trading (Business) and other allied purposes. The project will be developed in a phased manner. Initially the sanctioned plan was obtained for Phase I having 1 block of B/LG+GR+UG+1 stories with total built up area of 16132.45 sqm. with ground coverage of 4370.06 sqm. The updated sanction plan for the expansion project for horizontal expansion of 1 block of B/LG+GR+UG+1 stories was obtained having built up area of 39558.65 sqm. and ground coverage 10496.45 sqm.

Chronology of the event:

- The project proponent presented their proposal in the in 10th reconstituted SEAC meeting held on 22.01.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :
 - a) Basement details.

- b) Details of recharge wells.
- c) Details for utilisation of ETP waste and disposal plan of solid waste.
- d) Proposal for tree plantation along the bank and shore protection of existing water body.
- The project proponent had submitted reply on 16.04.2021, which was considered in the 16th SEAC meeting held on 04.06.2021. SEAC scrutinized the documents submitted by the project proponent in the meeting and deliberated on the submissions made by the project proponent, SEAC accepted the final proposal consisting of various environmental parameters and salient features and **recommended Environmental Clearance** for the proposed project.

Industry Sector

- Proposed expansion of commercial ware house development project by M/s. Instakart Services Pvt. Ltd. at Haringhata, Dist – Nadia, West Bengal. (Proposal No. SIA/WB/MIS/59175/2020) Activity:
 - This is a proposal for a commercial warehouse building project on 434429.99 Sqm. (107.35 Acres) of land. Built up area of the project is 149458.54 Sqm. (existing) and 242628.76 Sqm. (expansion). Total built up area is 392087.30 Sqm.

Chronology of the event:

- The project proponent presented their proposal for Terms of Reference in the 12th reconstituted SEAC meeting held on 22.02.2021 and based on the presentation made by the project proponent, the committee recommended the following points for submission / clarifications :
 - a) Hard copy of the Form-I, Form-IA along with all related documents.
 - b) Detailed land documents for the project : conversion certificate for all the plots, Mouza map showing the entire plots / agreement with WBIDC.
 - c) Copy of the Environmental Clearance for the Haringhata Industrial Park of WBIDC, if any, to be submitted. Details of the total land area and infrastructural facilities of the said industrial park should also be provided.
 - d) Copy of Consent to Establish for Phase I project.
 - e) Comparative statement for Phase I and Phase II of the project.
 - f) Detailed tree plantation plan mentioning the no. of trees, species, area under tree cover and percentage of the total land area.
 - g) Permission from the competent authority for the entire water supply.
 - h) Permission from the competent authority regarding solid waste including plastics and packing materials waste generation and its management.
 - i) Detailed lay out plan to be resubmitted depicting the complete area statement along with all the services.
 - j) Complete water balance for both lean and rainy season.
 - k) Power supply related permissions
 - I) Storm water drainage for the entire project should be submitted.
 - m) Undertaking regarding the present status of the project. Satellite imagery in this regard should be provided.
 - n) Population calculation and subsequent water consumption for the entire project based on NBC, 2016.
 - o) Facilities and amenities for the workers- first aid, PPEs etc

- p) Details of rainwater harvesting facility with surface storage including recharge bores.
- q) Detailed breakup of the total cost of the project.
- r) EMP as per Office Memorandum of MoEF & CC vide F. No. 22-65/2017.IA.III dated 30.09.2020.
- The project proponent submitted their reply on 22.04.2021, which was considered in the 16th reconstituted SEAC meeting held on 04.06.2021. SEAC after carefully consideration recommended that the project proponent should submit the following points for submission / clarifications :
 - a) For the purpose of sub section (1) of section (9) of WB trees (Protection and conservation in Non Forest Areas) Rules, 2007, the project proponent should undertake plantation of trees over at least 20 % of the total land area in accordance with a landscape plan approved by the concerned Divisional Forest Officer. A planting plan in appropriate scale(1: 100) corresponding to the tree list mentioning spacing etc., is to be provided.
 - b) Trees like Mango, Mahul, Sissoo, Chatiwan, Bokul, Neem and Bamboos etc. can be selected for planting in the proposed location.

The SEAC will consider the case on submission of the above mentioned documents.

C. Miscellaneous

- 1) Letter dated 30.04.2021 from Member Secretary, SEIAA regarding the District Survey Report (DSR) for mining of Minor Minerals.
- The matter has been discussed in the 16th reconstituted SEAC meeting held on 04.06.2021. The committee recommended that the report should be sent to Hon'ble members for their consideration and further action. Hon'ble Chairman requested the members to give their valued opinion regarding the DSR in the next SEAC meeting.

Summaries of above decisions are also provided in Table-1.

Table-1 : List of the projects which were placed before the reconstituted SEAC in the sixteenth meeting held on 04.06.2021 and the Summary Decisions thereof:

SI.	Name of the unit & Project address	Summary Decision
No.		
A. Cas	es placed for technical presentation	
Indust	ry Sector	
1.	M/s. Gajanan Iron Private Limited Proposed expansion of Steel Plant by installation of 3x15 T Induction Furnaces instead of 2x8 T Induction Furnaces with matching LRF & CCM to produce 148500 TPA billets and by increasing Rolling Mill capacity from 48000 TPA to 96000 TPA and setting up a Galvanizing unit of 160 MT/day at Jamuria Industrial Estate, Mandalpur, PO & PS – Jamuria, Dist – Paschim Bardhaman, West Bengal	Asked for additional submission

SI. No.	Name of the unit & Project address	Summary Decision
2.	M/s. JSW Cement Ltd. Proposed expansion of existing cement grinding unit from 3.6 MTPA to 4.8 MTPA at Salboni, Dist – Paschim Medinipur, WB.	Asked for additional submission
3.	M/s. Kalkons Proposed Berada Quartz Mine project (Area – 1.092 Ha.) at Plot No. 2860, 2855(P), 2857, 2858, JL No. 104, Mouza – Berada, Block – Barabazar, Dist – Purulia, West Bengal.	Asked for additional submission
4.	Sri Srikanta Mondal Proposed Riverbed Sand Mine (Area – 5.00 Ha.) on Subarnarekha River on Plot No. 583(P), PS – Beliaberah, JL No. 372, Mouza – Dangariai, Dist – Jhargram, West Bengal.	Asked for additional submission
5.	Sk. Jakir Hossen, Proposed Gopiballavpur - II Sand Mine MGB-20 (Area – 5.00 Ha.) on Plot No. 1561(P), JL No. 194, Vill – Malincha, Mouza & PO – Malincha, PS – Beliaberah, Dist – Jhargram, West Bengal, PIN – 721 517.	Absent
6.	Sri Altaf Hossain Proposed Gopiballavpur - II Sand Block MGB-56 (Area – 5.00 Ha.) on Plot No. 336(P) & 337(P), JL No.155, Vill & Mouza – Bhutkahalia, PO & PS – Beliaberah, Dist – Jhargram, PIN – 721 517, West Bengal.	Absent
7.	Sri Sushanta Mondal Proposed Subarnarekha Riverbed Sand Mine (Area – 3.72 Ha.) on Subarnarekha River on Plot No. 425(P), JL No. 67, Mouza – Chabukya, PS – Sankrail, Dist – Jhargram, West Bengal.	Asked for additional submission
8.	 Shri Susanta Ghosh, M/s. Bankura Mineral Industries, Proposed Tiura Silica Sand, Fire Clay and Morram Mine (Area – 3.44 Ha.) on Plot No. 140 to 143, 148, 202 & 204, JL No. 78, Vill & Mouza – Tiura, PS – Sonamukhi, Dist – Bankura, West Bengal. 	Asked for additional submission
9.	Sri Anupam Senapati Proposed Gopiballavpur – II Sand Block MGB - 11 (Area – 5.00 Ha.) at Plot No. 1057 (p), J.L. No. 188, Village – Pithapur, Mouza – Pithapur, PO – Malincha, PS – Beliaberah, District – Jhargram, West Bengal, Pin – 721 517.	Absent
10.	Sri Jagadish Ghosh Proposed Rerapal Sand Block MSB-41 (Area – 4.08 Ha.) at Plot No. 552 (p) & 700 (p), J.L. No. 132, Village – Rerapal, Mouza – Rerapal, PO – Monidaha, PS – Medinipur, District – Paschim Medinipur, West Bengal, Pin – 721 102.	Absent
11.	Sri Chandan Garai, Proposed Palla Sand Mining project (Area – 2.76 Ha.) on Damodar River on Plot No. 4020(P), 4027, 4028, 4029, 4030(P), 4031(P), 4037(P), 4039(P), Mouza – Palla, JL No. 45, PS – Memari, Dist – Purba Bardhaman, West Bengal, PIN – 713 146.	Asked for additional submission
12.	Sri Sanjay Bhakta Proposed Riverbed Sand Mining project (Area – 3.22 Ha.) on Damodar River on Plot No. 1859(P), 1860(P), & Ors., JL No. 32, Mouza – Bangpur, PS – Bardhaman, Dist – Purba Bardhaman, West Bengal.	Asked for additional submission

SI. No.	Name of the unit & Project address	Summary Decision
13.	Sri Santosh Kumar Chourasia Proposed Purbator Sand Mining project 0105DM018 (Area – 4.54 Ha.) on Damodar River on Plot No. 970(P), JL No. 67, Mouza – Purbator, Block & PS – Mejhia, Dist – Bankura, West Bengal.	Asked for additional submission
14.	M/s. Sayed Mia Brick Field Proposed Brick Earth Mine project (Area – 1.3152 Ha.) at Plot No. 825, 826, 827 & 828, JL No. 27, Mouza – Rahutgaon, PS – Malda, Dist – Malda, West Bengal.	Asked for additional submission
15.	M/s. Lux Brick Field Proposed Brick Earth Mining project (Area – 0.4087 Ha.) at Plot No. 42, JL No. 176, PS - Harishchandrapur, Dist – Malda, West Bengal.	Asked for additional submission
16.	M/s. Elora Brick Field Proposed Brick Earth Mining project (Area – 0.6758 Ha.) at Plot No. 1424, 1425, 1510, 1511, JL No. 282, Mouza – Batijora, PS – Gazole, Dist – Malda, West Bengal.	Asked for additional submission
17.	Shri Uttam Kumar Mahato Proposed Sand Mining project (Area – 1.91 Ha.) at Plot No. 1, JL No. 191, Mouza – Ayodhya, Block & PS – Barabazar, Dist – Purulia, West Bengal.	Absent
B. Cas	es placed for reconsideration	
1.	M/s. SRPM Haat LLP Proposed Commercial Building for Trading (Business) and other allied purposes at JL No. 29, Mouza – Prasastha, and JL No. 30, Mouza – Ankurhati, PS – Domjur, Mohiary GP, Dist – Howrah, West Bengal.	Recommended for Environmental Clearance
2.	M/s. Instakart Services Pvt. Ltd. Proposed expansion of commercial ware house development project at Haringhata, Dist – Nadia, West Bengal.	Asked for additional submission
C. Mis	cellaneous	
1.	Letter dated 30.04.2021 from Member Secretary, SEIAA regarding the District Survey Report (DSR) for mining of Minor Minerals.	Noted by SEAC. The issues will be discussed in the next meeting.

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

Sd/-

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

Sd/-

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

Sd/-

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

Sd/-

(Dr. Goutam Kumar Saha) 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/-

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

Sd/-

(Dr. Suchandra Bardhan) Member State Expert Appraisal Committee, West Bengal

Sd/-

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

Sd/-

Secretary State Expert Appraisal Committee, West Bengal