State Expert Appraisal Committee, Bihar

Ref. No- 194

Patna- 23, Date-10/09/2018.

- To,
 - ShriMurarijee Mishra Vijay Nagar, Near Temple, Rukunpura, Patna - 800014.
 - Dr. Samir Kumar Sinha, Wildlife Trust of India, F-13, Sector - 8, Noida, Uttar Pradesh - 201301.
 - Dr. Amar NathVerma, 10192 ATS Advantage, AhinshaKhand - 1, Near Habitat Centre, Indirapuram, Ghaziabad - 201014.
 - Dr. Shardendu, Department of Botany, Patna Science College, Patna.
 - Shri Vijay Kumar Sinha, IFS (Retd.) Prasad Bhawan, R. K. Path, Pirmohani, Kadamkuan, Patna - 800 003.
 - Dr. Birendra Prasad. Department of Botany, Patna University, Patna - 800 005
 - 7. Dr. Sudhanshu Kumar.
 C 4/1401, Puri Pranayama
 Sector 82 & 85, Faridabad 121 007 (Haryana)
 - Dr. ChandanBhar. Professor, Department of Management Studies, Indian Institute of Technology (Indian School of Mines), Dhanbad - 826 004 (Jharkhand)
 - Dr. Ram MadhabBhattacharjee Professor, Department of Management Studies, Indian Institute of Technology (Indian School of Mines), Dhanbad - 826 004 (Jharkhand)

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10. Dr. Rakesh Kumar Singh

G - 600, 12th Street, GAMA - II, Greater Noida (UP) - 201 310

8108 10 11. Dr. Dilip Kumar Paul,

Assistant Professor & Course Coordinator, M.Sc. Environment Science & Management, Post Graduation Department of Zoology, Patna University, Patna, Bihar - 800 005

Sub :- Proceedings of meeting of State level Expert Appraisal Committee held on 31.08.2018

Sir,

Please find enclosed herewith proceedings of the State Expert Appraisal Committee (SEAC) held on 31stAugust, 2018in the meeting hall of SEIAA, Bihar, Patna.

Sincerely Yours 10/9/18 (Alok Kumar) **Member Secretary**

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A meeting of SEACwas held in the meeting hall of SEIAA, Bihar, 2nd Floor, BeltronBhawan, Shastri Nagar, Patna- 31st August, 2018 presidedover by the Chairman, SEAC.The following members of the committee were present in the meeting:

- 1. Dr. Samir Kumar Sinha, Member, SEAC
- 2. Dr. Amar NathVerma, Member, SEAC
- 3. Dr. Shardendu, Member, SEAC
- 4. Shri Vijay Kumar Sinha, Member, SEAC
- 5. Dr. Birendra Prasad, Member, SEAC
- 6. Dr. Sudhanshu Kumar, Member, SEAC
- 7. Dr. Rakesh Kumar Singh, Member, SEAC
- 8. Dr. Dilip Kumar Paul, Member, SEAC
- 9. ShriAlok Kumar, Member Secretary, SEAC

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

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

TRIVENI SMELTERS PVT. LTD., (Expansion Project), Mauza:-Raipura, Tehsil:-Fatuha, District:- Patna (Proposal No. - SIA/3(a)/536/18) Online Proposal No.:-SIA/BR/IND/27926/2018).

Triveni Smelters Pvt. Ltd. (TSPL), is situated near village – Raipura, Tehsil – Fatuha, District - Patna, Bihar.Total Plant area is 16,000 M²(1.6 Ha). Total area of 4,800M²area(33% of total plot area 1.6 Ha) is being utilized as green belt & plantation as mentioned in project proposal.The total cost of the expansion project is approx₹47,37,48,000/–.

Manufacturing and production Details as contained in project proposal are summarized below:-

Unit (Product)	Existing Production (Ton /Annum)	Proposed Expansion (Ton /Annum)	Total Production (Ton /Annum)
Induction Furnace (MS Ingot/Billet)	1,08,000	Phase – I 42,000	Phase – I 1,50,000
		Phase – II	3,00,000
		1,50,000	(after Phase I & Phase II

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Re-rolling Mill (TMT Bar/Rods)	1,08,000	Phase – I	Phase – I
		42,000	1,50,000
		Phase – II 1,50,000	3,00,000
			(after Phase I & Phase II Expansion)
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An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 18.07.2018 for obtaining approved Terms of Reference (ToR). The proposal was considered by the SEAC in its meeting held on 31st August, 2018 to determine the ToR for preparation of EIA/EMP Report.

The Proponent and hisConsultant presented their proposal before the committee(SEAC). It was observed that the above said consultant, presenting the proposal did not have due accreditation from the QCI, and therefore, the Proponent was directed to come with accredited consultant failing which the proposal may be rejected.

 Stone Mining project at Village:-BaruiPachnaandPachna, Tehsil:- Sheikhpura, District:- Sheikhpura, State:- Bihar. (Proposal No. - SIA/1(a)/537/18)Online Proposal No.:-SIA/BR/MIN/71035/2017).

Stone Mining project at Village:- BaruiPachnaandPachna, Tehsil:- Sheikhpura, District:- Sheikhpura, Bihar having Latitude and longitude of 10 co-ordinates and they are Corner A - 25°09' 03.61" N85°54' 14.47" E, Corner B - 25°08' 59.52" N85°54' 25.67" E, Corner C - 25°09' 02.37" N85°54' 25.67" E, Corner D - 25°09' 01.82" N85°54' 25.82" E, Corner E - 25°09' 03.83" N85°54' 35.18" E, Corner F - 25°09' 05.26" N85°54' 35.00" E, Corner G - 25°09' 07.12" N85°54' 39.05" E, Corner H - 25°09' 09.16" N85°54' 39.07" E, Corner I - 25°09' 06.66" N85°54' 27.52" E, Corner J - 25°09' 07.16" N85°54' 27.44" E. Total area of the project is 6.88 ha (17 acres). Proposed production of the project is 14,07,224TPA. The total cost of the proposed project is approx ₹35,42,00,000/–.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 30.07.2018 for obtaining Environmental Clearance. The proposal was considered by the SEAC in its meeting held on 31st August, 2018 for Environmental Clearance.

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

- (1) Map issued by the revenue officials should be signed by competent Authority.
- (ii) Revised toposheet/map showing the area must be enclosed duly signed by Project Proponent and Consultant.
- (iii) Revised annual environment management plan (EMP) disclosing proportional/appropriate cost including expenditure plan for five years and also

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revised Corporate Environmental Responsibility (CER) as per social need assessment should be submitted.

- (iv) Disclose source of surface water for dust suppression and other purposes; if use of underground water is unavoidable, details must be included. A declaration to this effect duly signed by project proponent and consultant should be submitted.Include provision for mist spraying of water sprinkling in mine lease area and crusher area.
- (v) List of nearest mine lease area.
- (vi) Auction cost should be included in total project cost amount.
- (vii) Conduct traffic analysis as per IRC guideline.
- (viii) Cumulative assessment for Air pollution.
- (ix) Dispensary facilities for First Aid shall be provided at site.
- (x) Compliance of requirements sought by Govt. of India, MoEF&CC (Impact Assessment Division) F. No. 22-812018-IA.III dated 20.04.2018.
- (xi) DSR report for stone mine lease area.

JAYPRABHAMEDANTA SUPER SPECIALITY HOSPITAL (A Project by Global Health Patliputra Pvt. Ltd.) Village:-Kankarbagh, Tehsil:- Patna Sadar, District:-Patna, State:- Bihar.(Proposal No. - SIA/8(a)/538/18) Online Proposal No.:-SIA/BR/MIS/27949/2016).

JayprabhaMedanta Super Speciality Hospital (A Project by Global Health Patliputra Pvt. Ltd.) is located at Kankarbagh, Patna Sadar, of District Patna, Bihar. Jay Prabha Hospital land allotted by Health Department, Govt. of Bihar vide their letter no.-10/Vividh-15-29/2013-634(10), dated 31-08-2015. The existing hospital having Built-up Area of 66,701.867 M² Environmental clearance was granted by SEIAA vide letter no. 131 Dated 26/4/2016 and after proposed expansion/Modernization of hospital has Built-up Area of 97,124.266 M². The project cost of existing hospital is 220 crores and after proposed project having 280 crores.

An application along with filled up 'Form - I' in the prescribed format was submitted to SEIAA, Bihar on 01.08.2018 for obtaining approved Environmental Clearance. The proposal was considered by the SEAC in its meeting held on 31st August, 2018 to determine the Environmental Clearance of the project.

The Proponent and his Consultant presented their proposal before the committee (SEAC). It was observed that the above said consultant, presenting the proposal did not have due accreditation from the QCI, and therefore, the Proponent was directed to come with accredited consultant failing which the proposal may be rejected.

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Proposed Additional Storage Facilities 2x600 MT Mounded storage vessel at fatuha Industrial area, Mauza- Raipura, Fathua Patna, Bihar-803201. BPCL (Proposal No.:- SIA/6(b)/533/18) Online Proposal No.:- SIA/BR/IND2/25643/2018.

Proposed additional storage facilities 2X600 MT Mounded storage vessel at Fatuha Industrial Area, Mauza- Raipura, Fatuha, Patna,Bihar. The project having latitude 25°30' 07.57"N and longitude 85°19' 02.62"E. Total installed capacity of the project is 1500 MT (3x300 MT &1x600 MT Mounded Storage Vessels – MSV- ongoing construction) & filling of cylinders through 2x24 station electronic carousal (existing) and 2x600 MT Mounded Storage Vessels - MSV (after expansion). The project having total land area of 21.28 acres. The estimated project cost of the project is ₹35,46,00,000/–

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 25.06.2018 for obtaining approved Terms of Reference (ToR). The proposal was considered by the SEAC in its meeting held on 31st August, 2018 to determine the ToR for preparation of EIA/EMP Report

Earlier, in the meeting dated-13-07-2018.the committee (SEAC), had directed the project proponent to submit the documents. The Project Proponent has complied. The committee considered the compliance by project proponent and the proposal is recommended for necessary Term of Reference. (As Annexure - I)

5. Nalanda Sand Blocks (Block II of Stretch I) Mining ProjectVillage- Patoriya, Tehsil-Biharsharif, District- Nalanda, State- Bihar.(Proposal No. - SIA/1(a)/344/16). Online Proposal No.:-SIA/BR/MIN/25920/2017).

The proponent has applied for mining lease in the name of Nalanda Sand Blocks (Stretch I Block II) Mining Project over an area of 25.08 ha near Village: Patoriya, Tehsil: Bihar Sharif, District: Nalanda, Bihar.The project having a mining area of 61.97 acres or 25.08 ha.The proposed project is on bed on Sakri River. The project having four co-ordinates Corner A - 25° 03' 45.31" N 85° 34' 47.86" E, Corner B - 25° 03' 44.81" N 85° 34' 55.85" E, Corner C - 25° 03' 20.61" N 85° 34' 40.00" E, Corner D - 25° 03' 21.72" N 85° 34' 26.43" E. The proposed project having plot nos. are 1134, 35, 36, 1143, 1147, 1150, 51, 52, 53, 54, 55, 56, 57, 1165, 66, 67, 68, 69, 70, 71, 72, 73, 74, 1181, 82, 1183, 1184, 1187, 88, 1190, 1196. Total production of the proposed mining project is \$, 24, 508 Tones per annum. The estimated project cost for the proposed project is \$, 24, 508 Tones per annum.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 24.10.2016 for obtaining approved Terms of Reference (ToR). The SEIAA issued ToR vide Ref. No. 55/SEIAA/17 duted 02.06.2017 and public hearing for the proposed expansion project was conducted on 10.03.2018. Final EIA report submitted by Project Proponent dated -22/06/2018.

The Proponent and Consultant presented the proposal before the committee (SEAC), which after discussion and consideration directed the project proponent to submit a revised report including the following.

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- (i) The proposed mining Block, reportedly is not included in the DSR. The consultant informed that it has been wrongly excluded. He urged that permission may be granted to submit the corrected DSR, which was agreed upon.
- (ii) Auction cost should be included in total project cost.
- (iii) Submit Hydro-Geological study as mentioned in ToR point in 16.
- (iv) Submit report as per ToR point 18.
- (v) Data given in proposal and presentation should by identical.
- (vi) Disclose source of surface water for dust suppression and other purposes; if use of underground water is unavoidable, details must be included. A declaration to this effect duly signed by project proponent and consultant be submitted.
- (vii) Six monthly monitoring locations for sampling should be demarcated on the basis of windrose.
- (viii) Compliance of requirements sought by Govt. of India, MoEF&CC (Impact Assessment Division) F. No. 22-812018-IA.III dated 20.04.2018.
- Nalanda Sand Blocks (Block I of Stretch I) Mining Project, Village- Katona, Tehsil-Rajgir, District- Nalanda, State- Bihar (Proposal No. - SIA/1(a)/345/16). Online Proposal No.:-SIA/BR/MIN/17393/2016).

The proponent has applied for mining lease in the name of Nalanda Sand Blocks (Stretch I Block I) Mining Project over an area of 26.99 ha near Village-Katona, Tehsil-Rajgir, District- Nalanda of Bihar. The project having a mining area of 66.69 acres or 26.99 ha. The proposed project is on bed on Sakri River. The project having four coordinates Corner A - 25° 02' 27.98" N 85° 34' 00.50" E, Corner B - 25° 02' 27.99" N 85° 34' 04.96" E, Corner C - 25° 02' 57.05" N 85° 34' 08.71" E, Corner D - 25° 02' 57.25" N 85° 33' 58.00" E. The proposed project having plot nos. are 3100, 3105, 3106, 3107, 3108, 3109, 3111, 3163. Total production of the proposed mining project is $\overline{<}$ 36,00,000/-.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA. Bihar on 24.10.2016 for obtaining approved Terms of Reference (ToR) The SEIAA issued ToR vide Ref. No. 461 dated 23.12.2016 and public hearing for the proposed expansion project was conducted on 10.03.2018.Final EIA report submitted by project proponent dated - 22.06.2018.

The Proponent and Consultant presented the proposal before the committee (SEAC), which after discussion and consideration directed the project proponent to submit a revised report including the following.

(i) The proposed mining Block, reportedly is not included in the DSR. The consultant informed that it has been wrongly excluded. He urged that permission may be granted to submit the corrected DSR, which was agreed upon.

- (ii) Auction cost should be included in total project cost.
- (iii) Submit Hydro-Geological study as mentioned in ToR point in 16.
- (iv) Submit report as per ToR point 18.
- (v) Data given in proposal and presentation should by identical.
- (vi) Disclose source of surface water for dust suppression and other purposes;
 if use of underground water is unavoidable, details must be included. A
 declaration to this effect duly signed by project proponent and consultant
 be submitted.
- (vii) Six monthly monitoring locations for sampling should be demarcated on the basis of windrose.
- (viii) Compliance of requirements sought by Govt. of India, MoEF&CC (Impact Assessment Division) F. No. 22-812018-IA.III dated 20.04.2018.
- Banka Sand Blocks (Block 16 & 17 of Stretch-I) Mining Project, Village -KunaniJogipahadi, Tehsil- Banka, District- Banka, State- Bihar (Proposal No.-SIA/1(a)/347/16). Online Proposal No.:-SIA/BR/MIN/17507/2016).

The proponent has applied for mining lease in the name of Banka Sand Blocks (Stretch I Block 16 and 17) Mining Project over an area of 32.6 ha near Village-KunaniJogipahari, Post- Manjihira, Tehsil- Banka, District- Banka of Bihar. The project having a mining area of 80.55 acres or 32.6 ha. The proposed project is on bed on Chandan River. The project having four co-ordinates of Block 16 on Chandan River are Corner A - 24° 47' 06.63" N 86° 54' 36.31" E, Corner B - 24° 47' 03.85" N 86° 54' 42.57" E, Corner C - 24° 46' 35.49" N 86° 54' 21.90" E, Corner D - 24° 46' 39.45" N 86° 54' 16.85" E. The project having four co-ordinates of Block 17 on Chandan River are Corner A - 24° 46' 47.65" N 86° 54' 17.94" E, Corner B - 24° 46' 43.42" N 86° 54' 20.79" E, Corner C - 24° 46' 39.47" N 86° 54' 16.07" E, Corner D - 24° 46' 42.72" N 86° 54' 13.80" E. Total production of the proposed mining project is 12,42,997 Tones per annum. The estimated project cost for the proposed project is ₹ 42,00,000/–.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 24.10.2016 for obtaining approved Terms of Reference (ToR). The SEIAA issued ToR vide Ref. No. 462 dated 23.12.2016 and public hearing for the proposed expansion project was conducted on 03.09.2017. Final EIA report submitted by project proponent dated-22/06/2018.

The Proponent and Consultant presented the proposal before the committee (SEAC), which after discussion and consideration directed the project proponent to submit a revised report including the following.

- (i) Auction cost should be included in total project cost.
- (ii) Submit Hydro-Geological study as mentioned in ToR point in 16.
- (iii) Submit report as per ToR point 18.
- (iv) Data given in proposal and presentation should by identical.
- (v) Disclose source of surface water for dust suppression and other purposes; if use of underground water is unavoidable, details must be included. A declaration to this effect duly signed by project proponent and consultant be submitted.
- (vi) Six monthly monitoring locations for sampling should be demarcated on the basis of windrose.
- (vii) Compliance of requirements sought by Govt. of India, MoEF&CC (Impact Assessment Division) F. No. 22-812018-IA.III dated 20.04.2018.
- Banka Sand Blocks (Stretch-I Block 5) Mining Project, Village- Kanka, Tehsil-Banka, Dist- Banka, State: - Bihar (Proposal No. - SIA/1(a)/348/16). Online Proposal No.:-SIA/BR/MIN/17509/2016).

The proponent has applied for mining lease in the name of Banka Sand Blocks (Stretch I Block 5) Mining Project over an area of 29.0 ha near Village:Kakna, Tehsil: Banka & District: Banka of Bihar. The project having a mining area of 71.66 acres or 29.0 ha. The proposed project is on bed on Chandan River. The project having four coordinates on Chandan River are Corner A - 24° 56' 01.42" N 86° 55' 02.50" E, Corner B - 24° 56' 00.82" N 86° 55' 14.92" E, Corner C - 24° 55' 33.90" N 86° 55' 10.34" E, Corner D - 24° 55' 34.12" N 86° 54' 58.16" E. Total production of the proposed mining project is 10,24,096 Tones per annum. The estimated project cost for the proposed project is ₹ 40,00,000/–.

An application along with filled up 'Form - I' and pre-feasibility report in the prescribed format was submitted to SEIAA, Bihar on 24.10.2016 for obtaining approved Terms of Reference (ToR). The SEIAA issued ToR vide Ref. No. 463 dated 23.12.2016 and public hearing for the proposed expansion project was conducted on 03.09.2017.Final EIA report submitted by project proponent dated-22.06.2018.

The Proponent and Consultant presented the proposal before the committee (SEAC), which after discussion and consideration directed the project proponent to submit a revised report including the following.

(i) Auction cost should be included in total project cost.

- (ii) Submit Hydro-Geological study as mentioned in ToR point in 16.
- (iii) Submit report as per ToR point 18.
- (iv) Data given in proposal and presentation should by identical.
- (v) Disclose source of surface water for dust suppression and other purposes; if use of underground water is unavoidable, details must be included. A declaration to this effect duly signed by project proponent and consultant be submitted.
- (vi) Six monthly monitoring locations for sampling should be demarcated on the basis of windrose.
- (vii) Compliance of requirements sought by Govt. of India, MoEF&CC
 (Impact Assessment Division) F. No. 22-812018-IA.III dated 20.04.2018.

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Sd/-(Dr. Shardendu) (Member, SEAC) Sd/-(Dr. Samir Kumar Sinha) (Member, SEAC)

Sd/-(Dr. Amar nathVerma) (Member, SEAC)

Sd/-(Shri Vijay Kumar Sinha) (Member, SEAC) Sd/-(Dr. Birendra Prasad) (Member, SEAC) Sd/-(Dr. Sudhanshu Kumar) (Member, SEAC)

Sd/-(Dr. Rakesh Kumar Singh) (Member, SEAC)

10/9/18 (Alok Kumar)

Member Secretary, SEAC

Sd/-(Dr. Dilip Kumar Paul) (Member, SEAC)

(Murarijee Mishra Chairman, SEAC

Annexure - I

A. STANDARD TERMS OF REFERENCE

1. Executive Summary.

2. Introduction.

- i. Details of the EIA Consultant including NABET accreditation.
- ii. Information about the project proponent.
- iii. Importance and benefits of the project.

3. Project Description.

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities.
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided.
 - ix. Hazard identification and details of proposed safety systems.
 - x. Expansion/modernization proposals:
 - a.) Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MoEF&CC/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing existing operation of the project from SPCB shall be attached with the EIA-EMP report.
 - b.) In case the existing project has not obtained environmental clearance. reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification, 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4. Site Details.

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places).
- iii. Details w.r.t. option analysis for selection of site.
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area).
 - ix. A list of major industries with name and type within study area (10 km radius) shall be incorporated. Land use details of the study area.
 - x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5 km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects).
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

5. Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable).
- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha).
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6. Environmental Status.

- i. Determination of atmospheric inversion level at the project site and site-specific micrometeorologicaldata using temperature, relative humidity, hourly wind speed and directionand rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM₁₀, PM_{2.5}, SO₂, NO_X, CO and otherparameters relevant to the project shall be collected. The monitoring stations shall be basedCPCB guidelines and take into account the pre-dominant wind direction, population zoneand sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in theNAQQM Notification of Nov. 2009 along with - min., max., average and 98% values foreach of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point)and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial, avian and aquatic) existing in the study areashall be given with special reference to rare, endemic and endangered species. If Schedule - I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7. Impact and Environment Management Plan.

i. Assessment of ground level concentration of pollutants from the stack emission based onsite-specific meteorological features. In case the project is located on a hilly terrain, theAQIPModelling shall be done using inputs of the specific terrain characteristics fordetermining the potential impacts of the project on the AAQ. Cumulative impact of all sourcesof emissions (including transportation) on the AAQ of the area shall be assessed. Details ofthe model used and the input data used for modelling shall also be provided. The air qualitycontours shall be plotted on a location map showing the location of project site, habitationnearby, sensitive receptors, if any.

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- ii. Water Quality modelling in case of discharge in water body.
- iii. Impact of the transport of the raw materials and end products on the surrounding environmentshall be assessed and provided. In this regard, options for transport of raw materials andfinished products and wastes (large quantities) by rail or railcum road transport or convey or cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reusedfor different purposes shall be included. Complete scheme of effluent treatment. Characteristicsof untreated and treated effluent to meet the prescribed standards of discharge under E(P)Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control.
- vii. Details of hazardous waste generation and their storage, utilization and management. Copiesof MoU regarding utilization of solid and hazardous waste in cement plant shall also beincluded. EMP shall include the concept of waste-minimization, recycle/reuse/recovertechniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailedplan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shallbe included. The green belt shall be around the project boundary and a scheme for greeningof the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvestrainwater from the roof tops and storm water drains to recharge the ground water and also touse for the various activities at the project site to conserve fresh water and reduce the waterrequirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measuresshall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and EmergencyManagement Plan including Risk Assessment and damage control. Disaster managementplan should be linked with District Disaster Management Plan.
- xiv. To explore places inside /vicinity of Plant premises for display of air pollution parameters.

8. Occupational health.

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casualworkers.
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is beingevaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far& Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details

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of the same. Details regarding last month analyzeddata of above mentioned parameters as per age, sex, duration of exposure and departmentwise.

- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazardsand whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workerscan be preserved.
- iv. Annual report of health status of workers with special reference to Occupational Health andSafety.
- v. Local People should be be involved in mock drills, safety awareness and educated related to safety measures.

9. Corporate Environment Policy.

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bringinto focus any infringement / deviation / violation of the environmental or forest norms /conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with theenvironmental issues and for ensuring compliance with the environmental clearanceconditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmentalnorms to the Board of Directors of the company and / or shareholders or stakeholders atlarge? This reporting mechanism shall be detailed in the EIA report.
- 10. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11. Enterprise Social Commitment (ESC).

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.
- 12. Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13. A tabular chart with index for point wise compliance of above Term of Reference (ToR). Λ

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR ISOLATED STORAGE & HANDLING OF HAZARDOUS CHEMICALS.

- 1. Details on list of hazardous chemicals to be stored alongwith storage quantities at the facility, their category (as per MSIHC Rules), MSDS.
- 2. Mode of receiving hazardous chemicals in isolated storages and mode of their dispatch.
- 3. Layout plan of the storage tanks and other associated facilities.
- 4. Details on types and specifications of the storage facilities including tanks, pumps, piping, valves, flanges, pumps, monitoring equipments, systems for emissions control safety controls including relief systems.
- 5. Arrangements to control loss/leakage of chemicals and management system in case of leakage.
- 6. Risk Assessment & Disaster Management Plan.
 - Identification of hazards.
 - Consequence Analysis.
 - Details of domino effect of the storage tanks and respective preventive measures including distance between storage units in an isolated storage facility.
 - Onsite and offsite emergency preparedness plan.

