STATE EXPERT APPRAISAL COMMITTEE MINUTES 18 August 2018 OF 323rd MEETING

The 323rd meeting of the State Expert Appraisal Committee (SEAC) was held on 18th August, 2018 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Shri Prasant Srivastava, Member.
4. Dr. Jai Prakash Shukla, Member.

The Chairman welcomed all the members of the Committee and thereafter agenda items were taken up for deliberations.

1. Case No. – 1658/13 Shri Shrikant Pandey, S/o Shri Janardan Pandey, R/o- Gandhigram, Tehsil Sihora, District Jabalpur -483225, Madhya Pradesh Environmental Clearance for approval of Manganese, Laterite & Iron Ore Mining Lease (Area 4.67 ha) production capacity-35,255 TPA, near at Khasra no.-348, 350, 443/761, 414, 349, 351, Village: Hirdenagar, Tehsil: Sihora, District: Jabalpur M.P . Env. Consultant: VARDAN ENVIRONET GURUGRAM (HARYANA)

This is case of Manganese, Laterite & Iron Ore Mining. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-348, 350, 443/761, 414, 349, 351, Village: Hirdenagar, Tehsil: Sihora, District: Jabalpur (M.P) 4.67 Ha. The project requires prior EC before commencement of any activity at site.

The case was presented by the PP and their consultant in the 47th SEAC-II meeting dated 27/08/2016, wherein it was recorded that: Being it's a case of major mineral, it was decided to consider this case as B-1 category and committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
2. Transportation plan & traffic management plan should be discussed in the EIA report.
3. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
4. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
5. Compliance of consent conditions of M. P. Pollution control Board from concerned Regional Office.
6. Year wise details of minerals already excavated till date should be submitted with EIA report.

7. Aforestration plan with some species of meditational plants.
8. Progressive mine closure plan should be addressed in EIA report.
9. Photographs of sampling along with its all input output data and its back-up calculation.
10. Monitoring of Air, Water and Noise should be carried out on at least 08 locations selected on the basis of environmental sensitivity.
11. Environmental policy with organization management plan should be given along with EIA report.
12. Modeling input data sheet with results should be submitted with EIA report.
13. Documents pertaining to validity of lease should be enclosed with the EIA report.
14. Details of year wise production obtained (if any) should be submitted with EIA report.

PP has submitted the EIA vide letter dated 15/05/2018 which was forwarded through SEIAA vide letter no. 761 dated 22/05/2018, which was placed before committee for EIA Presentation.

Earlier this case was scheduled for the EIA presentation in the 315th SEAC meeting dated 18/08/2018, wherein it was recorded that: Neither the Project Proponent (PP) nor his authorized representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings to present their case and even if PP remains absent the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

In this meeting the EIA was presented by the PP and their consultant wherein following details were provided by the PP:

Mining Lease Status: LOI has been granted for mining lease in favor of Shri Srikant Pandey for a period of 20 years for mineral Manganese, Laterite & Iron Ore over an area of 4.67 Hectare near Village-Hirdenagar, Tehsil-Sihora, District-Jabalpur, MP vide letter of intent no. F-3-2/2010/12/2 dated 24/12/2011 issued by DMG, Bhopal.

Status of approval of Mining Plan/ Mining Scheme: Mining Plan is approved by Controller of Mines (Central Zone), IBM, Ministry of Mines vide letter no. MP/Jabalpur/Iron Ore/MPLN/G-12/11-12 dated 19/07/2012.

Status of Environmental Clearance: In this context, Form-I and Pre-Feasibility Report was submitted online to State Environmental Impact Assessment Authority (SEIAA), Madhya Pradesh.

Status of Forest Cl*e*arance The entire lease area of 4.67 ha is Govt. Waste Land. There is no forest land involved in the ML area. 'No Objection Certificate' regarding the same has been obtained from the Forest Department Jabalpur, MP. The conservation plan has been prepared along with budgetary provision of Rs. 16.00 Lakhs to conserve wildlife and submitted to DFO jabalpur and CC to CWW Bhopal.

PROJECT DETAILS

Name of the project	Manganese, Laterite & Iron Ore Mine
Project Proponent	Shri Srikant Pandey S/o Shri Janardan Pandey
Name of the Consultant	Vardan Environet, Gurgaon
Category/Item no.	B1
Location of the Project	Khasra Number- 348, 349, 350, 351, 443/761, 414 Village-Hirdenagar, Tehsil-Sihora, District- Jabalpur Madhya Pradesh
Project Details **M.L. No./Production Capacity**	Production – 35255 TPA Mineable Reserve –219971 T Life of Mine : Approx 6.0 years
Project Cost	Rs. 40.0 Laks Cost of EMP: 2.0 lacks/-Year Cost of CSR: 2.0 Lacks/-Year Cost for Labour Welfare: 0.80 Lacks/-Year Cost for Plantation-2.0 Lacks/-Year Cost for OH&S-0.50 Lacks/-Year Cost for Conservation Plan-16 Lacks
Water Requirement & Source	Total Water Required- 6.0 KLD Domestic Purpose – 1.0 KLD Dust Suppression + plantation –5.0 KLD

Toposheet	64A/3
Lease Area	4.67 hectare
Type of Land	Govt. Land

Khasra Numbers Involved	348, 350, 443/761, 414, 349, 351
Man Power Requirement	19
Elevation Ranges	376m RL – 398m RL
Ground Water Table	360 mRL (20 mbgl)
Ultimate Depth of Pit	379.5m RL (4m bgl)
Method of Mining	Open Cast Manual Mining
Toposheet	64A/3
Lease Area	4.67 hectare
Type of Land	Govt. Land
Khasra Numbers Involved	348, 350, 443/761, 414, 349, 351
Man Power Requirement	19
Elevation Ranges	376m RL – 398m RL
Ground Water Table	360 mRL (20 mbgl)
Ultimate Depth of Pit	379.5m RL (4m bgl)
Method of Mining	Open Cast Manual Mining
Toposheet	64A/3
Lease Area	4.67 hectare
Type of Land	Govt. Land

Khasra Numbers Involved	348, 350, 443/761, 414, 349, 351
Man Power Requirement	19
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Ultimate Depth of Pit	379.5m RL (4m bgl)
Method of Mining	Open Cast Manual Mining

NEED AND BENEFITS OF THE PROJECT

- Iron ore is mainly used for manufacturing pig iron, sponge iron and steel. It is also used in cement, coal washeries, ferro-alloys, foundry, vanaspati and glass industries etc.
- Manganese occurs as silvery grey in colour and is very hard and brittle in nature. It is always available in combination with iron, laterite and other minerals. Manganese in alloy form is an essential input in steel making and is one of the most important metals in an industrial economy.
- The compact and ferruginous variety of laterite is used widely as a road metal and as a local stone for culverts and buildings. Limited capacity to withstand heavy pressure has limited the use of laterites in construction of light structures, partition walls, boundary walls, etc.
- The project will provide employment to local people and also through ESC (Enterprise social commitment) activities to helping them earn livelihood and to become independent.
- Infrastructure: Creation of community assets (infrastructure) like provision for drinking water, construction of school buildings, village roads/ linked roads, dispensary and health centre, community centre, market place etc, as a part of welfare development.
- Green Belt Development: A suitable combination of trees that can grow fast and also have good leaf cover will be adopted to develop the green belt.

ENVIRONMENTAL SETTINGS

PARTICULARS	DETAILS
Nearest City	Jabalpur – approx. 24.5 Km in SSW direction
Nearest State/ National Highway	NH-7 (1.30 Km in SE direction).
Nearest Railway Station	Gosalpur Railway station – 3.30 Km in ENE direction
Nearest Airport	Jabalpur Airport, – 22.0 Km in SSE
Nearest Hospital	Gosalpur Railway station – 3.30 Km in ENE direction
National Park, Wild life Sanctuary, Biosphere Reserve within 10 Km radius	There is no Ecological Sensitive Areas (National Park, Wild Life Sanctuary, Biosphere only Reserve/ Protected Forest present within 10 Km radius Borha RF approx. 7.5 km towards SE direction.

Proposed Year Wise Waste Generation

S. No.	Year	Waste in m^3
1.	1st Year	1667
2.	2nd year	1958
3.	3rd year	2092
4.	4th year	2498
5.	5th year	3038
Total		**11253**

- Waste generating during proposed mining will be temporary dumped towards north western part of the lease area. Later on conceptual period will be utilized for carpeting along the NH at a distance of 0.5 km towards eastern side after taking local authority permission & making of approach road.

S.No.	Plant Species	No. of Plants	Location of Plantation
FOREST PLANTS			
1.	Neem	200	Lease periphery, Backfilled area, Both side of internal village road, 25 m thick barrier zone along with RF boundary, Undisturbed area/Non Mining Zone
2.	Bans	100	Lease periphery, Backfilled area, Approach Road
3.	Kachnar	100	Lease periphery, Backfilled area, Approach Road
4.	Peepal	25	Lease periphery , Backfilled area , Approach Road
5.	Bargad	25	Lease periphery , Backfilled area , Approach Road
6.	Sheesham	150	Lease periphery , Backfilled area , Approach Road
7.	Siris	100	Lease periphery , Backfilled area , Approach Road
FRUIT BEARING PLANTS			
8.	Amla	100	Approach Road
9.	Aam	150	Approach Road
10.	Imli	100	Undisturbed Area
11.	Bel	100	Lease periphery
12.	Jamun	200	Undisturbed Area
ORNAMENTAL PLANTS			
13.	Ashok	200	Backfilled area, Both side of internal village road
14.	Amaltas	150	Backfilled area ,Both side of internal village road
15.	Karanj	150	Backfilled area ,Both side of internal village road
COMMERCIAL IMPORTANCE PLANTS			
16.	Gmelina (Khmer)	150	7.5 m safety barrier, Undisturbed Area
TOTAL		**2000**	

The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

S. No.	Particulars	Details
1.	Cost of the Project	Rs. 40.00 Lakhs
2.	Cost of EMP	Rs. 2.00 Lakhs/year
3.	Enterprises social Responsibility (ESR)	Rs. 2.00 Lakhs/year
4.	Budget for Conservation Plan	Rs. 16.00 Lakhs
5.	Budget for Occupational Health and Safety	Rs. 0.50 Lakhs/year
6.	Cost for Labour Welfare	Rs. 0.80 Lakhs/year

EMP Budget

Particulates	Details	Annual Budgetary Provision (Rs.)
Dust suppression/ water sprinkling on Haul Road by tanker	Water Cost + transportation vehicle diesel	60,000
Environmental Monitoring	Twice in a year	20,000
Garland drains 1 :- 850MX2.5MX1.5M (LXWXD) Settling tank :-4 (5MX2MX2M (LXWXD))		50,000
Cost of making/maintenance of approach roads approx. 1.0 km		70,000
TOTAL		**2,00,000**

During presentation it was observed through Google image that some mining activities are carried out by the PP for which PP submitted that no mining is carried out by them only prospecting is done by them and prospecting permitted as per EIA notification, 2006. It was also observed that one schedule-I species is recorded for which PP has submitted the wild life

conservation plan for approval to the competent authority vide letter dated 12/02/2018. After EIA presentation PP was asked to submit response on the following queries:

1. Corrected Year-wise production plan as the slide in presentation has calculation mistake.
2. Undertaking from the lease that no mining activity is being carried out.
3. Development plan on the map which will include haul road, entry, slope and gradient.
4. Conceptual map which will include water body, green area, backfilled and reclaimed area and dump yard area if any.
5. Revised CSR as suggested by the committee during presentation.
6. Surface Plan and litholog of the mineralized area.
7. Photographs taken during weather monitoring and air monitoring.
8. Revised plantation scheme as suggested during meeting by the committee.

PP vide letter dated 18/08/2018 has submitted the reply of above raised queries which was placed before the committee and the same was found to be satisfactory. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for approval for Manganese, Laterite & Iron Ore Mining Lease (Area 4.67 ha) production capacity-35,255 TPA, near at Khasra no.-348, 350, 443/761, 414, 349, 351, Village: Hirdenagar, Tehsil: Sihora, District: Jabalpur M.P subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed expansion shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. For dust suppression, regular sprinkling of water should be undertaken.
6. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

7. No intermediate stacking of soil is permitted and same shall be utilized for plantation
8. No tree falling is proposed during the mining activity.

9. The proposed mining will be carried out manually drilling and blasting is not proposed.
10. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only. As proposed in the landscape plan & EMP a minimum of 3000 no's of trees will be planted.
11. Transportation of material shall be done in covered vehicles.
12. Transportation of minerals shall not be carried out through forest area.
13. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
14. As proposed Garland drains 850MX2.5MX1.5M (LXWXD) and settling pits 4 nos. (5MX2MX2M (LXWXD) should be provided to avoid silt discharge. Settling tanks shall be connected with garland drains for proper sedimentation.
15. The existing and proposed land use plan of the mine is as follows:

Sr. no.	**All the areas are given in**	**As on Date**	**End of 5th year**	**At the end of conceptual Period**
1.	Pits (Broken Area)	0.0389	1.3292	1.9255
2.	Top soil Dump	--	--	--
3.	Dumps	--	0.3150	--
4.	Dumps Stack Yard	--		--
5.	Sub Grade stack Yard			--
6.	Infrastructure (Work Shop, administrative Building)	--	0.010	--
7.	Roads	0.009	0.009	--
8.	Railway	--	--	--
9.	Green Belt	--	--	--
10.	Tailing Pond		0.045	1.2675

11.	Non Utilized	4.6221	2.9618	1.477
Total		**4.67**	**4.67**	**4.67**

16. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
17. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
18. The commitments made in the public hearing are to be fulfilled by the PP.
19. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
20. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

21. The proposed EMP cost is Rs. 03.00 lacks out of which Rs. 20,000 is proposed for green belt development.
22. Under CSR activity, Rs. 2.0 lacks/year are proposed for the next 05 years in different activities.
23. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
24. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
25. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
26. PP will comply with all the commitments made vide letter dated 18/08/2018.
27. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

2. <u>Case No. – 2853/2015 Shri Mukul Khampariya, Mahagawan Road, Khitola, Post-Sihora, Jabalpur (MP)-483225 –Bijiyan Iron Ore & Manganese Deposit Lease Area-27.610 ha., Proposed Maximum Production of Iron ore is– 1,54,683 TPA and Manganese Ore 5309 TPA, Total Production- 1,59,992 alongwith benefication plant of 5,00,000 TPA.at Khasra No. – 101, Village-Bijiyan, Tehsil-Sihora, District-Jabalpur (MP)</u>.

This is a case of mining of Bijiyan Iron Ore & Manganese Deposit and beneficiation of the ore within the lease area. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the proposed project. The salient features of the project, PFR and proposed TOR were presented by the PP and his consultant before the committee in this meeting. It is revealed that, the proposed site is located Khasra No. – 101, Village-Bijiyan, Tehsil-Sihora, District-Jabalpur (MP) - 27.610 ha. The project requires prior EC before commencement of any activity at site.

Earlier this case was discussed in the 209th SEAC meeting dated 24/07/2015 wherein after deliberations committee approved *standard TOR in prescribed by MoEF & CC with addition of following points:*

1. *Contour study with mitigation plan for protection of water bodies with in 10 Km radius around the site to dealt in detail.*
2. *Evacuation plan to be detailed out with protection / mitigation measures where ever required.*
3. *Special plan for house keeping with special reference to the drainage management plan within the lease area supported with maps and drawings.*
4. *Plans for controlling the fugitive emissions from the project.*
5. *Satellite imagery with high resolution to be furnished.*

PP vide letter dated 24/06/2017 has requested for amendment in TOR submitting that in Form-1, PFR and TOR presentation the production capacity of Iron Ore was 1,54,683 TPA and Manganese Ore was 5309 TPA with total capacity of 1,59,992 with benefication plant of 5,00,000 TPA while in the TOR letter issued to was issued to him only for 1,54,683 TPA.

The case was presented by the PP in the 297th SEAC meeting dated 08/11/2017, wherein PP submitted that their total quantity should be amended from 1,54,683 TPA to 1,59,992 TPA for Iron and Manganese ore. The committee on perusal of case files, presentation made by the PP earlier, minutes of 209th SEAC meeting dated 24/07/2015 and TOR letter issued by the SEAC vide letter no. 1401 dated 09/09/2015 observed that it's a typographical error and amended

TOR may be issued to PP for Iron Ore 1,54,683 TPA and Manganese Ore 5309 TPA with total capacity of 1,59,992 alongwith benefication plant of 5,00,000 TPA.

PP has submitted the EIA report vide letter dated 23/07/2018 which was forwarded through SEIAA vide letter no.-1187 dated 24/07/2018.

In this meeting neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings.

3. Case No. – 2769/2015 Smt. Ratna Singh W/o Shri Sudhir Singh, Krishna Nagar, District- Satna (MP)-485011 Prior Environment Clearance for Limestone & Laterite Mine in an area of 17.408 ha. (Expansion in production capacity from 20,000 MTA to 4,18,635 TPA) at Khasra no.-1/2,2/1, 2/4, 1/3, ¼, 1/5, 1/6, 2/2, 2/3,8/2, 8/3, 8/5k, 8/5kh, 8/5G, Village-Aber, Tehsil-Rampur Baghelan, District-Satna. Env.Consultant: M/s Apex Mintech Consultants.

This is a case of mining of Limestone & Laterite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra no.-1/2,2/1, 2/4, 1/3, ¼, 1/5, 1/6, 2/2, 2/3,8/2, 8/3, 8/5k, 8/5kh, 8/5G, Village-Aber, Tehsil-Rampur Baghelan, District-Satna 17.408 ha. The project requires prior EC before commencement of any activity at site.

On being informed by PP that monitoring activities on site have been started since March, 2015 as per the standard TOR as prescribed by the MoEF&CC the committee allowed PP to use this date in EIA report.

After deliberations in the 197th SEAC meeting dated 03/06/2015, committee recommended for inclusion of following points to be addressed in the EIA / EMP in addition to standard TOR prescribed by the MoEF&CC :-

1. PP should submit MoEC&CC compliance report.
2. PP should also submit year wise production details since 2005 duly certified by the competent authority.

As per the above, the TOR was issued to the PP vide letter no. 1875 dated 05/11/2015. PP has submitted the EIA report vide letter dated 05/11/2016 which was forwarded by the SEIAA vide letter no. 4378/SEIAA/16 dated 10/11/2016.

The case was scheduled for the EIA presentation in 61st SEAC-II meeting dated-25/11/2016, wherein it was recorded that: The EIA was presented by the PP and their consultant and after presentation, PP was asked to submit following information:

1. Should justify for over production and also the copy of production assessment sheet issued by Mining Officer for the year 2005-06 to 2007-08.
2. Revised plantation scheme with its budgetary allocations.
3. Details of blasting technique and Safety- Security measures proposed by the PP.
4. As per the mining plan in the year 2006-07, limestone production was 53,450T, while the approval was for only 20,000 T.
5. Revised estimate cost of dust suppuration & plantation scheme in EMP
6. Revised CSR as suggested by the committee during presentation.
7. Compliance of earlier E.C conditions duly verified by the MoEF&CC.

This case was scheduled for discussion in the 75th SEAC-II meeting dated 04/05/2017 wherein it is recorded that PP was informed to submit above information vide letter no 54 dated 19/01/2017 and reminder was also given to the PP vide letter no. 56 dated 09/03/2017. PP so far has not submitted the desired informations and the case were placed before the committee. The committee observed that PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information.

SEIAA vide letter no.1167 dated 24/07/2018 has send this project file to SEAC as this case was discussed in 492nd SEIAA meeting dtd 07.07.2018 and it has been recorded that, since PP has submitted point wise required information dated 18.06.2018. Hence it has been decided to relist the case.

PP and his consultant made EIA query presentation before the committee and after discussion PP was asked to submit following query before the committee as:

1. Provision of Occupational Health Survey for the workers.
2. Revised budget for PPE.
3. Budget for yearly Occupational Health checkup and
4. Revised plantation scheme and budget

Vide letter no. 18.08.2018 PP has submitted the above reply the committee after delibearation found satisfactory. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant

of prior EC for Limestone & Laterite Mine in an area of 17.408 ha. (Expansion in production capacity from 20,000 MTA to 4,18,635 TPA) at Khasra no.-1/2,2/1, 2/4, 1/3, ¼, 1/5, 1/6, 2/2, 2/3,8/2, 8/3, 8/5k, 8/5kh, 8/5G, Village-Aber, Tehsil-Rampur Baghelan, District-Satna subject to the following special conditions:

(A) PRE-MINING PHASE

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed expansion shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

8. Top soil should not be compacted during temporary stacking.
9. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) including the village side to provide additional protection in one year only.
10. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 17,530 nos of trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. Transportation of material shall be done in covered vehicles.
12. Transportation of minerals shall not be carried out through forest area.

13. The OB till its utilization for backfilling shall be properly stacked as per approved mining plan and disposed off as per the submitted proposal. PP shall bound to compliance the final closure plan as approved by the IBM.
14. Garland drains 02m x 01m and settling pits (30m x10m x03m) should be provided to avoid silt discharge. Settling tanks shall be connected with garland drains for proper sedimentation.
15. Fixed types of water sprinklers should be provided on 450 meter long and 05 meter wide haul road. However, regular water spraying should be practiced on transport road for dust suppression.
16. The existing and proposed land use plan of the mine is as follows:

Area in ha

S. No.	Land use category	Present	5th Year	Up To Mine life
1.	Waste Dump	0.2160	1.7560	0.00
2.	Excavation (Voids Only)	2.4569	8.0165	15.8778
3.	Road	0.0900	0.0900	0.20
4.	Built Up Area	0.0100	0.0100	0.00
5.	Green Belt Boundary *	0.00	1.5302	1.5302
6.	Total used area	2.7729	9.8725	15.8778
7.	Undisturbed Area	14.6351	7.5355	1.5302
	Total	**17.408**	**17.408**	**17.408**

17. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
18. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
19. The commitments made in the public hearing are to be fulfilled by the PP.
20. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

21. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

22. The proposed EMP cost is Rs. **7.335** lacks and Rs. 6**.18** lacks /year are proposed as recurring expenses.
23. PP also proposed budgetary provision of Rs. 45,69,250 lacs for green belt development in the five year period for plantation in the proposed EMP of this project.
24. Under CSR activity, Rs. 7.90 lacks are proposed for the affected different villages, and Rs. 2.65 lacks are kept aside for health and safety of the workers.
25. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
26. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
27. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
28. PP will comply with all the commitments made vide letter dated 18/8/2018.
29. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

4. Case No. - 2192/2014 Shri Gourav Khandelwal, Partner, M/s Siddhivinayak Enterprises, Teacher Colony, Rambhalpur Road, Meghnagar, Jhabua (M.P.) - 457779. Prior Environment Clearance for approval of proposed expansion of unit for Organic intermediate manufacturing at Industrial Area at Vill.-Meghnagar, District-Jhabua (M.P.) Cat. - 5(f) Project Synthetic Organic Chemicals Industry (dyes & dye intermediates). Env. Consultant: M/s San Envirotech Pvt. Ltd. Ahmedabad.

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. PP and his consultant presented the salient features of the project before the

committee in the 188th SEAC Meeting dated 02/05/15. The presentation and the submissions made by the PP reveals following:

- It is an existing unit is located at Plot No. 30, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- The unit is manufacturing magnesium sulphate, manganese sulphate and Phospho gypsum. Existing production capacity is 500 MT/Year as per CCA No. AW- 23181.Now, the unit has proposed expansion for manufacture of Dye Intermediates.
- Proposed capacity for manufacturing of Dye Intermediates is 600 MT/Year.
- The project proponent is also having a second unit - M/s Devansh Trading Company in the same area and will manufacture same Dye Intermediates at Plot No. 137, AKVN, Industrial Area, Meghnagar, District-Jhabua (M.P.) the application of which is listed as Case no. 2193 at SEIAA for prior EC.
- The expected cost of proposed expansion is Rs.80 lacs..
- The total plot area is 2346.24 sq. m. The planned green belt area will be 710 sq. m. i.e. about 30% of total area.

Project location

The proposed project site is located at Plot No. 30, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua. The approximate geographical positioning of the project site is at Latitude: 22°55'10.5168"N Longitude: 74°33'30.351"E.

Water consumption

Category	Water Consumption (KL/DAY)
Domestic	5
Industrial	
Process	10
Washing	5
Boiler	5
Cooling	5
Total(Industrial)	25
Tot (Industrial + Domestic)	30

Waste water generation

Category	Waste Water Generation (KL/Day)
Domestic	3

Industrial	
Process	5
Washing	5
Boiler	2
Cooling	2
Total(Industrial)	14
Total (Industrial + Domestic)	17

After deliberations committee recommended for inclusion of following additional points to be addressed in the EIA / EMP in addition to standard TOR:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the overall water balance to be worked out presented with details of the proposed 'Zero liquid discharge' claim.
3. Product-wise material and solvent balance
4. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products hard-copies to be furnished.
5. Details of all the scrubbing agents to be furnished.
6. The fly-ash from boiler is proposed to be supplied to the brick manufacturers; the qualitative analyses report of the ash to be furnished from the already operating similar units.
7. The EIA has to be prepared by an accredited consultant only.
8. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
9. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
10. Details of storage of each product & raw material.
11. Detailed lay-out with adequate green area.
12. Plan for prevention of waste water percolation into the ground water to be submitted.
13. Ground-water study shall be carried out in the region including the water table and the quality.
14. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

The TOR was approved in the 188th SEAC meeting dated 02/05/2015. The PP and their consultant presented the EIA in this meeting and after discussions PP was asked to submit response to the following queries:

1. The quantity of fly ash generated should be submitted corresponding to the fuel used.
2. Storage of product in the plant premises along with their compatibility study be submitted.
3. During discussion it was suggested that generated iron sludge and gypsum sludge should be disposed off in the CTSDF, Dhar for which PP should submit commitment.
4. Liners of containers should be disposed off in CTSDF, Dhar for which PP should submit commitment.
5. Ground water table data of the study area should be submitted as per the TOR.
6. PP should also submit a declaration regarding no construction/development activity under taken at the project site which so far has not been submitted along with the certification of the consultant that no construction or production activity at this site for the proposed products has been taken.
7. Surface water monitoring is carried out only at two locations thus PP was asked to carryout additional surface water monitoring for winter season at least four more locations covering two nearby ponds (one named as amlipather pond).
8. In EIA where ever, the concentration of pollutants exceeds the prescribed limits, justification along with mitigation measures suggested which is missing in this case. Thus PP was asked to submit the same with revised EMP addressing above.

Committee also proposes site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250th SEIAA meeting dated 14/10/2015) and after site visit, if required, PP may also be called for discussion/presentation on issues that emerge during site visit.

Site Visit Report was discussed in the 256th SEAC Meeting dated 03/01/2016 which is as follows:

BACKGROUD

The TOR was issued to this unit in the 188th SEAC meeting dated 02/05/2015 and EIA presentation was made by the PP in the 245th SEAC meeting dated 09/12/2015 wherein it was decided to carryout site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 th. SEIAA meeting dated 14/10/2015) and after site

visit if required, PP may also be called for discussion/presentation on issues raised at the time of site visit.

As decided, Shri K. P. Nyati, Member SEAC and Shri R. Maheshwari, member SEAC visited the site on 20/12/2015. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer MP Pollution Control Board, Bhopal and Shri Gaurav Khandelwal, PP were also present. The concerned Regional Officer, of MPPCB Dhar Region, Shri Hemant Sharma, and Shri AK Bisen EE accompanied the SEAC team to the site.

Project location

This unit is located at Plot No. 30**, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua and 0.5 Kms from Ghosliya bada Village. The approximate geographical positioning of the project site is at Latitude: 22°55'10.55"N, Longitude: 74°33'30.45"E.,

The unit is manufacturing Magnesium Sulphate, Manganese Sulphate and Phospho Gypsum. The existing production capacity is 500 MT/year and now, the unit has proposed expansion for manufacturing of Dye Intermediates to the tune of 600 MT/Year. Thus, the total production capacity will be 1100 MT/Year. The total plot area is 2346.24 sq. m. with following details:

SL.No.	DETAILS	AREA IN m2	% OF TOTAL AREA
1.	Plant Area and Raw Material storage area	772	32.90
2.	ETP Area	450	19.18
3.	ETP Expansion area	200	08.5
4.	Green Belt Area	704	30
5.	Finished Goods Storage Area	120	5.1
6.	Open Space Area	210	8.95
7.	Road Area	150.24	6.39
	TOTAL	**2346.24**	

The total requirement of water is 31 KL/Day out of which 16 KL/Day fresh water will be fulfilled by the MPAKVN and remaining 15 KL/day will be recycled water recovered from MEE.

During site visit, it was observed that two reactors and three mixers are in existence under a shed in the plant premises with one tank for storage purposes. No industrial operations were being carried out at the time of inspection. As informed, the unit earlier has obtained consent

to operate on dated 26/07/2012 (consent to establish on 14/11/2013) from the M. P. Pollution Control Board for manufacturing of Acid slurry. Later on unit has obtained consent to establish and consent to operate from the board as expansion for manufacturing of Manganese Sulphate and Phospo Gypsum to the tune of 500 MT/Annum on dated 14/11/2013 and 07/12/2013 respectively. Neither any process residues nor waste materials of earlier production were stored on the site/plant premises, however the remains of it were observed on the premises soil which also appears to be freshly spread with gravel and its some portion freshly concreted. PP was also unable to explain how these materials were disposed off. No documentary evidences were produced by the PP for the disposal of above wastes even when demanded by the committee. PP also failed to produce the details of products manufactured earlier.

RECOMMENDATIONS

Following are the recommendations:

1. Since necessary details are not provided during site inspection, thus PP may be asked to provide following details:-
   a. The list of equipment and machineries with year of installation of each one of them after 26/07/2012 from date of consent to establish obtained from M. P. Pollution Control Board.
   b. The product-wise monthly production details from 2012 till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
   c. The product-wise monthly consumption of raw materials from 2012 till date.
   d. Copies of consent and authorization under HW (M, H & TBM) Rules, 2008 obtained from M. P. Pollution Control Board.
   e. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.
   f. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
   g. Details of hazardous wastes with their respective quantities generated since 2012 and their mode of disposal with documentary evidences.
   h. Details of any notices/directions issued by the M. P. Pollution Control Board or any other Govt. Department during last three years and their compliance statement.

2. Regional Officer, M. P. Pollution Control Board, Dhar may also be asked to provide details of any notices/directions issued to the company and compliance report of consent conditions issued for earlier products. Similarly, analysis reports of waste water and any other solid/hazardous wastes collected from the premises of the unit, if any.

PP vide letter no. 512 dated 02/03/2016 was asked to submit the above information for further consideration of the project but till date no information is submitted by PP. The above case was placed before the committee as PP has not submitted the desired information since long. The committee in 288th SEAC meeting dated 30/03/2017 observed that since PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information and pending since long.

SEIAA on request of PP relisted the case and forwarded the case file to SEAC vide letter no. 540 dated 29/05/17 and thus the case was placed in the 293rd SEAC meeting dated 17/06/2017, wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

The EIA query reply presentation was delivered by the PP and their consultant wherein PP submitted that the project is located in an industrial area and proposal is for manufacturing of Dye Intermediates. At present the unit is manufacturing of magnesium sulphate, manganese sulphate and Phospho gypsum. The existing production capacity is 500 MT/Year and proposed capacity for manufacturing of Dye Intermediates is 600 MT/Year.

After presentation committee asked regarding waste generation and present status of MS tanks kept at industry premises. In this context PP vide letter dated 18.08.2018 submitted that no waste has been generated during dismantling of MS storage tanks as no demolition of foundation were carried out. The storage tanks have been kept within premises and no other waste is accumulated or stored in the premises.

The query reply was discussed and after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case is recommended for proposed expansion of Organic intermediate manufacturing at Plot No.- 30, Meghnagar Industrial Area at Meghnagar, District-Jhabua (MP) subject to the following special conditions:

The EC shall be valid for following products and given capacity:

Sr. No.	Name of products	Existing Quantity MT/YEAR	Proposed Quantity MT/YEAR
EXISTING PRODUCTS			
1.	Ammonium Sulphate or/and	**500 MT/YEAR**	**NIL**
2.	Iron Sulphate or/and		
3.	Phospho Gypsum or/and		
4.	Sodium Sulphate or/and		
PROPOSED PRODUCTS			
1.	2-Nitro Chloro Benzene-4-Sulphonic Acid or/and	**NIL**	**600 MT/YEAR**
2.	4-Nitro Chloro Benzene-2-Sulphonic Acid or/and		
3.	Chloro 2 :4 DinitroBenzene Sulphonic Acid or/and		
4.	2-Nitrotoluene-4-Sulphonic Acid or/and		
5.	4-Nitrotoluene-2-Sulphonic Acid or/and		
6.	4-Sulpho Anthranilic Acid or/and		
7.	2-Aminophenol-4-Sulphonic Acid or/and		
8.	6 Nitro 2 Aminophenol 4 Sulphonic Acid or/and		
9.	6-Chloro-2-aminophenol-4-sulphonic Acid or/and		
10.	4 Chloro 2 Amino phenol 6 Sulphonic Acid or/and		
11.	6 Acetyl 2 Aminophenol 4 sulphonic acid or/and		
12.	4 Cresidine 2 Sulphonic Acid or/and		
13.	4 Amino Diphenyl Amine 2 Sulphonic Acid or/and		
14.	Para Para (4, 4 Diamino Diphenyl Amine 2 Sulphonic Acid) or/and		
15.	Ethyl benzylaniline meta sulphonic Acid or/and		
16.	Sulpho vinyl Sulphone or/and		
17.	G SALT (2 Naphthol 6, 8 disulphonic acid) or/and		
18.	AMINO G ACID & R Salt & Scheffer Acid or/and		
19.	Gamma Acid or/and		
20.	K Acid (2 Amino 3,6,8 Disulphonic Acid) or/and		

21.	Aniline 2:5 Disulphonic Acid or/and		
22.	Sulpho Tobias Acid or/and		
23.	Peri Acid and Laurent's Acid or/and		
24.	Phenyl Peri Acid or/and		
25.	Meta Phenylene Diamine Para Sulphonic Acid or/and		
26.	Meta Phenylene Diamine Di Sulphonic Acid (MPDDSA) or/and		
27.	DASA (4-4 Diamino Sulphanilide) or/and		
	TOTAL	**500 MT/YEAR**	**600 MT/YEAR**

(A) PRE-CONSTRUCTION PHASE

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. For dust suppression, regular sprinkling of water should be undertaken.
3. PP will obtain other necessary clearances/NOC from respective authorities.
4. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

(B) CONSTRUCTION PHASE

5. The entire process area should be provided with doubled liner HDPE geo membrane system of thickness 1.5 mm and double leachate collection system for detection of any leachate.
6. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
7. Fire extinguishers should be provided on site during construction/ plant erection period.
8. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
9. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
10. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the EIA, the planned

green belt area will be 710 sq. m. i.e. about 30% of total area and approximately 120 no's trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.

11. The proposed land use of the area is as follows:

SL.No.	DETAILS	AREA IN m2	% OF TOTAL AREA
1.	Plant Area and Raw Material storage area	772	32.90
2.	ETP Area	450	19.18
3.	ETP Expansion area	200	08.5
4.	Green Belt Area	704	30
5.	Finished Goods Storage Area	120	5.1
6.	Open Space Area	210	8.95
7.	Road Area	150.24	6.39
	TOTAL	**2346.24**	

12. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
13. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
14. The total requirement of water is 31 KL/Day out of which 16 KL/Day fresh water will be fulfilled by the MPAKVN and remaining 15 KL/day will be recycled water recovered from MEE.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

1. At least eight numbers of Peizo-metric monitoring points should be provided all around the plant premises and their monitoring be done bi-monthly.
2. VOC'c detectors should be provided in all storage areas.
3. As proposed, no effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom to see entire ETP area, all out lets of storm water drains and all materials/wastes entry and exit gates. Data connectivity must be provided for all such cameras to the MPPCB's server for remote operations.
4. 2.5 mm thick HDPE liner should be provided in the hazardous waste storage area to avoid soil contamination.

5. At least 2.5 cm of first rain water should be passed through the ETP.
6. No ground water recharge pits be provided in the plant premises.
7. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
8. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
9. The exhaust of the vehicles used for the purpose of handling, lifting and transportation within the factory such as forklifts or trucks should be fitted with the approved type of spark arrester.
10. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
11. Dyke wall should be provided for storage of liquid materials. The dyke wall should be off 1.5 times higher than the quantity of stored materials.
12. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.
13. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
14. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
15. Engineered eye wash arrangements should be provided for protection against any spillage / leakages.
16. Recent MSDS of all the chemicals be displayed at appropriate places.
17. Two on-line monitoring systems for ambient air quality should be provided and data connectivity must be provided to the MPPCB's server for remote operations.
18. The total power requirement for project will be 52 KW. The power will be supplied by Madhya Pradesh Electricity Board. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
19. For treatment of effluent ETP (19.50 KL) with MEE (18.0 KLD) each shall be installed.
20. Height of proposed stacks shall be as per statutory requirement. All the stacks will have Stack Monitoring Facility consisting of sampling port-hole, platform and access ladder.
21. Biofuel operated boilers shall be provided with cyclone separator and adequate stack height. Stack attached with tray dryer and pulverizer shall be provided with bag filter

with adequate stack height. Stack attached to Reactor-1 and Reactor-2 shall be provided with acid and alkali scrubber.

22. The organic incinerable wastes, MEE residues, Iron and Gypsum sludge, Liners of containers, used filter bags, packaging materials, rejected/expired raw materials and off specification/ rejected finished products from the manufacturing plants shall be directly sent to CTSDF, Dhar.
23. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
24. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
25. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
26. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
27. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended, the Public Liability Insurance Act for handling of hazardous chemicals, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, MSIHC Rules 1989 etc.
28. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Closed handling system of chemicals shall be provided.
29. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
30. Ultrasonic/Magnetic flow/Digital meters shall be provided at all water abstraction points and records for the same shall be maintained regularly.
31. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

(D) ENTIRE LIFE OF THE PROJECT

32. The proposed EMP cost is Rs.35.0 lakhs as capital and 21.0 lakhs as recurring out of which the Rs. 2.5 lakh for Environment Monitoring Cost for the project.
33. For green belt development from the total EMP cost Rs. 04.0 lakhs allocated as capital and Rs. 1.0 lakhs as recurring.
34. Under CSR activity, Rs. 3.75 lakhs / year are proposed for different activities.

35. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
36. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
37. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
38. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
39. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

5. Case No. - 2193/2014 Shri Mahesh Prajapati, Partner, M/s Devansh Trading Company, Dashara Maidan, Meghnagar, Jhabua (M.P.)-457779 Prior Environment Clearance for approval of proposed expansion for manufacturing of Dye Intermediates at Industrial Area at Vill.-Meghnagar, District-Jhabua (M.P.). Cat. - 5(f) Project Synthetic Organic Chemicals Industry (dyes & dye intermediates). Env. Consultant: M/s San Envirotech Pvt. Ltd. Ahmedabad.

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. Pp and his consultant presented the salient features of the project before the committee in the 188th SEAC Meeting Minutes dated 02rd May 2015. The presentation and the submissions made by the PP reveals following:

- This is an existing unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- The unit is manufacturing Ammonium Sulphate, Iron Sulphate, Sodium Sulphate and Phospho Gypsum .
- Existing production capacity is 500 MT/year as per CCA No. AW-23182.
- Now, the unit has proposed expansion for manufacturing of Dye Intermediates.

- Proposed capacity for manufacturing of Dye Intermediates are 600 MT/Year.
- Thus, total capacity for manufacturing is 1100 MT/Year.
- The expected cost of proposed expansion is Rs.80 Lacs.
- The total plot area is 3203 sq. m.
- The planned green belt area will be 961 sq.m. i.e. about 30% of total area.

Project location

- This unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh.
- It is approximately 15 Km distance from Dist. Jhabua.
- The approximate geographical positioning of the project site is at Latitude: 22°54'20.7"N, Longitude: 74°33'16.8"E.

Water consumption

Category	**Water Consumption (KL/Day)**
Domestic	5
Industrial	
Process	10
Washing	5
Boiler	5
Cooling	5
Total(Industrial)	25
Total (Industrial + Domestic)	**30**

Waste water generation

Category	Waste Water Generation (KL/Day)
Domestic	3
Industrial	
Process	5
Washing	5
Boiler	2
Cooling	2

Total(Industrial)	14
Total (Industrial + Domestic)	17

After deliberations committee recommended for inclusion of following additional points to be addressed in the EIA / EMP in addition to standard TOR:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the overall water balance to be worked out & presented so as to achieve 'Zero liquid discharge' from the unit.
3. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products.
4. Inventory of all the raw material with mass balance of each of the chemicals being used or proposed to be used.
5. The EIA has to be prepared by an accredited consultant only.
6. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
7. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
8. Plan for prevention of waste water percolation into the ground water to be submitted.
9. Existing pollution load with respect to air / water and soil to be presented.
10. List of material proposed to be stored beyond the prescribed thresh-hold limits.
11. Ground-water study shall be carried out in the region including the water table and the quality.
12. Base line environmental data can be used in the EIA but the data should not be older than 02 years. The existing data if used in the EIA should be validated before use.

The TOR was approved in the 188th SEAC meeting dated 02/05/2015. The PP and their consultant presented the EIA in this meeting and after discussions PP was asked to submit response to the following queries:

1. The quantity of fly ash generated should be submitted corresponding to the fuel used.
2. Storage of product in the plant premises along with their compatibility study be submitted.
3. During discussion it was suggested that generated iron sludge and gypsum sludge should be disposed off in the CTSDF, Dhar for which PP should submit commitment.
4. Liners of containers should be disposed off in CTSDF, Dhar for which PP should submit commitment.

5. Ground water table data of the study area should be submitted as per the TOR.
6. PP should also submit a declaration regarding no construction/development activity under taken at the project site as the same has not been submitted so far. A certification of the consultant that no construction or production activity at this site for the proposed products has been taken also to be submitted.
7. Surface water monitoring is carried out only at two locations thus PP was asked to carryout additional surface water monitoring for winter season at least at four more locations covering two nearby ponds (one named as amlipather pond).
8. In EIA where ever, the concentration of pollutants exceeds the prescribed limits, justification along with mitigation measures suggested which is missing in this case. Thus PP was asked to submit the same with revised EMP addressing above.

Committee also proposes to undertake site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 the. SEIAA meeting dated 14/10/2015) and after site visit if required, PP may also be called for discussion/presentation on issues emerging during site visit.

Site Visit Report was discussed in the 256th SEAC Meeting dated 03/01/2016 which is as follows:

The TOR was issued to this unit in the 188th SEAC meeting dated 02/05/2015 and EIA presentation was made by the PP in the 245th SEAC meeting dated 09/12/2015 wherein it was decided to carryout site visit as per the suggestion of SEIAA vide letter no. 7452/SEIAA/2015 dated 09/11/2015 (decision taken in 250 th. SEIAA meeting dated 14/10/2015) and after site visit if required, PP may also be called for discussion/presentation on issues raised at the time of site visit.

As decided, Shri K. P. Nyati, Member SEAC and Shri R. Maheshwari, member SEAC visited the site on 20/12/2015. During inspection, Dr. Abhaya K. Saxena, Sr. Scientific Officer MP Pollution Control Board, Bhopal and Shri Mahesh Prajapati, PP were also present. The concerned Regional Officer, of MPPCB Dhar Region, Shri Hemant Sharma and Shri AK Bisen, EE accompanied the SEAC team to the site.

Project location

This unit is located at Plot No. 137, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua and 0.5 Kms from Ghosliya bada Village. The approximate geographical positioning of the project site is at Latitude: 22°54’20.7”N, Longitude: 74°33'16.8”E.

The unit is manufacturing Ammonium Sulphate, Iron Sulphate, Sodium Sulphate and Phospho Gypsum. The existing production capacity is 500 MT/year and now, the unit has proposed expansion for manufacturing of Dye Intermediates to the tune of 600 MT/Year. Thus, the total production capacity will be 1100 MT/Year. The total plot area is 3203 sq. m. with following details:

SL.No	DETAILS	AREA IN m2	% OF TOTAL AREA
1.	Plant Area and Raw Material storage area	910	28.4
2.	ETP Area	500	15.5
3.	ETP Expansion area	332	10.4
4.	Green Belt Area	961	30
5.	Finished Goods Storage Area	140	4.4
6.	Open Space Area	210	6.6
7.	Road Area	150	4.7
	TOTAL	3203	

The total requirement of water is 31 KL/Day out of which 16 KL/Day fresh water will be fulfilled by the MPAKVN and remaining 15 KL/day will be recycled water recovered from MEE.

During site visit, it was observed that two reactors and two mixers are in existence under a shed in the plant premises with three tanks for storage purposes. No industrial operations were being carried out at the time of inspection. As informed, the unit earlier has obtained consent to operate on dated 09/12/2013 (consent to establish on 14/11/2013) from the M. P. Pollution Control Board for manufacturing of Ammonium Sulphate, Iron sulphate, Sodium Sulphate and Phospo Gypsum to the tune of 500 MT/Annum. Neither any process residues nor waste materials of earlier production were found stored on the site/plant premises, however the remains of it were observed on the premises soil which also appear to be freshly spread with gravel. PP was also unable to explain how those materials were disposed off. No documentary evidences were produced by the PP for the disposal of above wastes even when demanded by the committee. PP also failed to produce the details of products manufactured earlier.

RECOMMENDATIONS

Following are the recommendations:

1. Since necessary details are not provided during site inspection, thus PP may be asked to provide following details:-

a. The list of equipment and machineries with year of installation of each one of them after 14.11.2013 from date of consent to establish obtained from M. P. Pollution Control Board.

b. The product-wise monthly production details from 2013 till date vis-à-vis the consented capacity of M. P. Pollution Control Board.
c. The product-wise monthly consumption of raw materials from 2013 till date.
d. Copies of consent and authorization under HW (M, H & TBM) Rules, 2008 issued by the M. P. Pollution Control Board.
e. Details/components of Effluent Treatment Plants installed for the treatment of waste water for earlier products.
f. Any dismantling activities taken up in the recent past and if yes, how these equipments and other debris are dismantled and disposed off.
g. Details of hazardous wastes with their respective quantities generated since 2013 and their mode of disposal with documentary evidences.
h. Details of any notices/directions issued by the M. P. Pollution Control Board or any other Govt. Department during last three years and their compliance statement.

Regional Officer, M. P. Pollution Control Board, Dhar may also be asked to provide details of any notices/directions issued to the company and compliance report of consent conditions issued for earlier products. Similarly, analysis reports of waste water and any other solid/hazardous wastes collected from the premises of the unit, if any.

PP vide letter no. 510 dated 02/03/2016 was asked to submit the above information for further consideration of the project but till date no information is submitted by PP. The above case was placed before the committee as PP has not submitted the desired information since long. The committee in 288th SEAC meeting dated 30/03/2017 observed that since PP has neither submitted the desired information nor has requested for providing additional time to submit desired information and thus decided that this case may be recommended for delisting to SEIAA as per MoEF&CC OM No. F-11013/5/2009-IA-II (Part) dated 30/10/2012 as PP has not submitted the desired information and pending since long.

SEIAA on request of PP relisted the case and forwarded the case file to SEAC vide letter no. 542 dated 31/05/17 and thus the case was placed in the 293rd SEAC meeting dated 17/06/2017, wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.The case was presented by the PP and their consultant and during presentation following details were provided.

The EIA query reply presentation was delivered by the PP and their consultant wherein PP submitted that the project is located in an industrial area and proposal is for expansion for manufacture of Dye Intermediates. At present the unit is manufacturing of magnesium sulphate, manganese sulphate and Phospho gypsum. The existing production capacity is 500 MT/Year and proposed capacity for manufacturing of Dye Intermediates is 600 MT/Year.

After presentation committee asked regarding waste generation and present status of MS tanks kept at industry premises. In this context PP vide letter dated 18.08.2018 submitted that no waste has been generated during dismantling of MS storage tanks as no demolition of foundation were carried out. The storage tanks have been kept within premises and no other waste is accumulated or stored in the premises.

The query reply was discussed and after deliberations, the submissions and presentation made by the PP were found to be satisfactory and acceptable hence the case is recommended for approval of proposed expansion for manufacturing of Dye & Dyes Intermediates at Plot No.-137, Meghnagar Industrial Area Village-Meghnagar, District-Jhabua (M.P.), Existing Land Area is 3203 Sq.Meter subject to the following special conditions:

1. The EC shall be valid for following products and given capacity:

Sr. No.	Name of products	Existing Quantity MT/YEAR	Proposed Quantity MT/YEAR
EXISTING PRODUCTS			
1.	Ammonium Sulphate or/and	**500 MT/YEAR**	**NIL**
2.	Iron Sulphate or/and		
3.	Phospho Gypsum or/and		
4.	Sodium Sulphate or/and		
PROPOSED PRODUCTS			
1.	2-Nitro Chloro Benzene-4-Sulphonic Acid or/and	**NIL**	**600 MT/YEAR**
2.	4-Nitro Chloro Benzene-2-Sulphonic Acid or/and		
3.	Chloro 2 :4 DinitroBenzene Sulphonic Acid or/and		
4.	2-Nitrotoluene-4-Sulphonic Acid or/and		
5.	4-Nitrotoluene-2-Sulphonic Acid or/and		
6.	4-Sulpho Anthranilic Acid or/and		
7.	2-Aminophenol-4-Sulphonic Acid or/and		
8.	6 Nitro 2 Aminophenol 4		

	Sulphonic Acid or/and		
9.	6-Chloro-2-aminophenol-4-sulphonic Acid or/and		
10.	4 Chloro 2 Amino phenol 6 Sulphonic Acid or/and		
11.	6 Acetyl 2 Aminophenol 4 sulphonic acid or/and		
12.	4 Cresidine 2 Sulphonic Acid or/and		
13.	4 Amino Diphenyl Amine 2 Sulphonic Acid or/and		
14.	Para Para (4, 4 Diamino Diphenyl Amine 2 Sulphonic Acid) or/and		
15.	Ethyl benzylaniline meta sulphonic Acid or/and		
16.	Sulpho vinyl Sulphone or/and		
17.	G SALT (2 Naphthol 6, 8 disulphonic acid) or/and		
18.	AMINO G ACID & R Salt & Scheffer Acid or/and		
19.	Gamma Acid or/and		
20.	K Acid (2 Amino 3,6,8 Disulphonic Acid) or/and		
21.	Aniline 2:5 Disulphonic Acid or/and		
22.	Sulpho Tobias Acid or/and		
23.	Peri Acid and Laurent's Acid or/and		
24.	Phenyl Peri Acid or/and		
25.	Meta Phenylene Diamine Para Sulphonic Acid or/and		
26.	Meta Phenylene Diamine Di Sulphonic Acid (MPDDSA) or/and		
27.	DASA (4-4 Diamino Sulphanilide) or/and		
	TOTAL	**500 MT/YEAR**	**600 MT/YEAR**

(E) PRE-CONSTRUCTION PHASE

2. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
3. For dust suppression, regular sprinkling of water should be undertaken.
4. PP will obtain other necessary clearances/NOC from respective authorities.

5. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

(F) CONSTRUCTION PHASE

6. The entire process area should be provided with doubled liner HDPE geo membrane system of thickness 1.5 mm and double leachate collection system for detection of any leachate.
7. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
8. Fire extinguishers should be provided on site during construction/ plant erection period.
9. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
10. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
11. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the EIA, the planned green belt area will be 710 sq. m. i.e. about 30% of total area and approximately 120 no's trees will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
12. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
13. The proposed land use of the area is as follows:

SL.No	DETAILS	AREA IN m2	% OF TOTAL AREA
1.	Plant Area and Raw Material storage area	910	28.4
2.	ETP Area	500	15.5
3.	ETP Expansion area	332	10.4
4.	Green Belt Area	961	30
5.	Finished Goods Storage Area	140	4.4
6.	Open Space Area	210	6.6
7.	Road Area	150	4.7
	TOTAL	3203	

14. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
15. The total requirement of water is 31 KL/Day out of which 16 KL/Day fresh water will be fulfilled by the MPAKVN and remaining 15 KL/day will be recycled water recovered from MEE.

(G) POST CONSTRUCTION/OPERATIONAL PHASE

18. At least eight numbers of Peizo-metric monitoring points should be provided all around the plant premises and their monitoring be done bi-monthly.
19. VOC'c detectors should be provided in all storage areas.
20. As proposed, no effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom to see entire ETP area, all out lets of storm water drains and all materials/wastes entry and exit gates. Data connectivity must be provided for all such cameras to the MPPCB's server for remote operations.
21. 2.5 mm thick HDPE liner should be provided in the hazardous waste storage area to avoid soil contamination.
22. At least 2.5 cm of first rain water should be passed through the ETP.
23. No ground water recharge pits be provided in the plant premises.
24. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
25. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
26. The exhaust of the vehicles used for the purpose of handling, lifting and transportation within the factory such as forklifts or trucks should be fitted with the approved type of spark arrester.
27. In order to have appropriate measures to prevent percolation of spills, leaks etc. to the soil and ground water, the storage area should be provided with concrete floor of inert material or steel sheet depending on the characteristics of waste handled and the floor must be structurally sound and chemically compatible with wastes.
28. Dyke wall should be provided for storage of liquid materials. The dyke wall should be off 1.5 times higher than the quantity of stored materials.
29. Measures should be taken to prevent entry of runoff into the storage area. The Storage area shall be designed in such a way that the floor level is at least 150 mm above the maximum flood level.

30. The storage area floor should be provided with secondary containment such as proper slopes as well as collection pit so as to collect wash water and the leakages/spills etc.
31. Storage areas should be provided with adequate number of spill kits at suitable locations. The spill kits should be provided with compatible sorbent material in adequate quantity.
32. Engineered eye wash arrangements should be provided for protection against any spillage / leakages.
33. Recent MSDS of all the chemicals be displayed at appropriate places.
34. Two on-line monitoring systems for ambient air quality should be provided and data connectivity must be provided to the MPPCB's server for remote operations.
40. The total power requirement for project will be 52 KW. The power will be supplied by Madhya Pradesh Electricity Board. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
41. For treatment of effluent ETP (19.50 KL) with MEE (18.0 KLD) each shall be installed.
42. Height of proposed stacks shall be as per statutory requirement. All the stacks will have Stack Monitoring Facility consisting of sampling port-hole, platform and access ladder.
43. Biofuel operated boilers shall be provided with cyclone separator and adequate stack height. Stack attached with tray dryer and pulverizer shall be provided with bag filter with adequate stack height. Stack attached to Reactor-1 and Reactor-2 shall be provided with acid and alkali scrubber.
44. The organic incinerable wastes, MEE residues, Iron and Gypsum sludge, Liners of containers, used filter bags, packaging materials, rejected/expired raw materials and off specification/ rejected finished products from the manufacturing plants shall be directly sent to CTSDF, Dhar.
45. The Fly ash generated from boilers shall be stored in silos and disposed of through cement manufacturers by bulkers / closed containers and should comply with Fly Ash Utilization Notification, 1999 and as amended subsequently.
46. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
47. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
48. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
49. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended, the Public Liability Insurance Act for handling of hazardous chemicals, Plastic Waste

Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, MSIHC Rules 1989 etc.

50. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Closed handling system of chemicals shall be provided.
51. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
52. Ultrasonic/Magnetic flow/Digital meters shall be provided at all water abstraction points and records for the same shall be maintained regularly.
53. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.

(H) ENTIRE LIFE OF THE PROJECT

54. The proposed EMP cost is Rs.35.0 lakhs as capital and 21.0 lakhs as recurring out of which the Rs. 2.5 lakh for Environment Monitoring Cost for the project.
55. For green belt development from the total EMP cost Rs. 04.0 lakhs allocated as capital and Rs. 1.0 lakhs as recurring.
56. Under CSR activity, Rs. 4.00 lakhs / year are proposed for different activities.
57. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
58. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
59. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
60. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
61. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

6. <u>Case No. - 5722/2018 M/s Bharat Petroleum Corporation Ltd, LPG Bottling Plant, P-27, Addl., MIDC Area, Jalgaon, (M.S.) – 425003 Prior Environment Clearance for Construction of additional tankage (2 x 858 KL Bio-diesel) within existing terminal at Village - Mangliya POL Depot, A.B.Road, Distt. –Indore (M.P.) Cat. – 6 (b) Isolated Storage & Handling of Hazardous Chemicals. Env. Con. –Vardan Environment Gurgaon(Haryana).</u>

The Proposed project is of Prior Environment Clearance for Construction of additional tankage (2 x 858 KL Bio-diesel) within existing terminal at Village - Mangliya POL Depot, A.B.Road, Distt. -Indore(M.P.) falls under **Category B, schedule 6** as per the EIA notification 14th Sep, 2006. Hence it requires prior EC from SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

Salient features of the project, proposed TOR and other details of the project were presented before the SEAC by the PP and his consultant, which reveals following:

M/s Bharat Petroleum Corporation Limited (BPCL), Manglia Depot is located at Village-Mangalia, Tehsil- Sanver, Agra Bombay Road, P.O. - Manglia, District- Indore, State-Madhya Pradesh. The depot is located on National Highway-3 i.e. Agra Bombay road. Also, it is 15 km away from Indore railway station and roughly 25 km from Indore airport. This terminal of BPCL was commissioned in March 1992 and covers around over 13.5 acres of land with Indian Oil Corporation Limited (IOCL) and Hindustan Petroleum Corporation Limited (HPCL) in North direction.

The Existing capacity of this storage terminal is22194 KL. The terminal is having 16 tanks (10 Under-ground & 6 Above-ground) for product storage. The terminal is providing storage and distribution services to petroleum products like MS (Motor Spirit), HSD (high speed diesel), SKO (Superior Kerosene Oil), Hexane, Furnace Oil and Ethanol as per the market demand. The products received are stored in the storage tanks and dispatched to various Retail Outlets & Industrial Customers in various districts of Madhya Pradesh through tank trucks. The Terminal is having Ethanol tankage and no Biodiesel storage/handling facility at present. The Retail SBU has proposed to revamp/build Ethanol and Biodiesel facilities across the country. Retail-West also has proposed to develop the same across the region. In view of the same, the storage capacity needs to be increased for catering to the demand of biodiesel requirement. Therefore, construction and installation of additional Biodiesel storage tanks (2×858 KL) at Manglia Depot, Indore, Madhya Pradesh has been proposed.

After presentation committee decided to issue standard TOR prescribed by the MoEF&CC for carrying out EIA study with following additional TOR's and as per Annexure D:-

1. Photographs of the site with latest satellite image.
2. Discuss all sensitive features around the 500 meter periphery.
3. Safety ornogram with specific assignment of the plant.
4. The water balance Chart.
5. The compliance of PESO and OISD.
6. The HAZOP & HAZON study with comprehensive assessment.
7. The oil & grease parameters should be checked in the ground water samplings.
8. A detail of emergency rescue plan is to be submitted in the EIA report.
9. Workers health survey report is to be submitted in the EIA report.
10. Site specific risk assessment study should be carried out and same should be submitted with EIA report with disaster management plan and risqué details.
11. Detailed green belt plan with area, name of species and their number should be provided along with the inventory of existing trees in EIA report.
12. Tree failing is also proposed PP should submit the details of area with number of tree, species and permission from the competent authority.
13. Any other area marked for further expansion in this proposed unit should be detailed out on a layout map and submitted with EIA report.
14. Detailed fire fighting arrangements proposed should be discussed in the EIA report.
15. If there is any sensitive area within 05 kms radius of the proposed project site, the proposed safety measures in case of any accident should be discussed in the EIA report.
16. Input and output of modeling data should be annexed with the EIA report.
17. Details of all construction material related to this expansion project should be submitted with the EIA report.
18. Detailed parking facilities wrt to existing capacity and expanded facility should be provided within the facility boundary and detailed traffic management plan should be discussed in the EIA report as no parking will be permitted outside the plant premises.
19. Cost benefit analysis should be carried out and discussed in the EIA report.
20. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
21. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.

22. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
23. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
24. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
25. Pre-dominant wind direction to be ascertained and accordingly the Safety & Environment Management Plans prepared and reported.
26. Details of Environmental Cell & CSR committee.
27. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

7. Case No. - 5416/2016 M/s Riddhi Siddhi Colours, 304, Agrawal Arcade, Opp. Central Mall Ambawadi, Ahmedabad (Guj.) – 380006 Manufacturing of Dyes & Dyes Intermediate at Plot No. 99-A, M.P. Audhyogic Kendra Vikas Nigam Ltd (AKVN), Tehsil - Meghnagar, Distt. - Jhabua, (M.P.) Proposed Capacity: Synthetic Organic Dyes [Liquid Direct Dyes] & [Direct Dyes] Capacity 125 MT per Month & Synthetic Organic Dyes [Disperse Dyes] Capacity 125 MT per Month Total Plot Area : 3000 Sq.mt. ha., Cat. - 5(f) Project Synthetic Organic Chemicals Industry (dyes & dye intermediates).

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals, hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. The proposed project is located at Plot No. 99-A, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State.

PROJECT SALIENT FEATURES

Project Proponent	M/s. Sri Riddhi Siddhi Colours
Project Name	Manufacturing of Dyes and Dyes Intermediates
Capacity	250 MT/Month
Estimated project cost	208.13 Lacs.
Coordinates & Address	Latitude: 22°54'48.17“ N, Longitude: 74°33'37.06“ E Plot no. 99/A, Audyogic Kendra Vikas Nigam Ltd.

	(AKVN), Taluka: Meghnagar, District: Jhabua, Madhya Pradesh, India.
Category & Schedule	5 (f) "B" as per EIA Notification, 2006
Total Plot Area	Total Area - 0.3 ha. (Green area - 0.099 ha. 33% of Total Plot Area)
Manpower Requirement	During Construction phase: 15 & During Operational phase: 10
Total Water Requirement	119 KLD (Source: AKVN Water Supply)
Waste Water Generation	53 KLD (Domestic: 8 KLD & Industrial: 45 KLD)
Power Requirement	200 KVA (Source: MPEB) 2 x 100 KVA DG Set as Stand-by

WATER REQUIREMENT

Sr. No.	Type of use	Fresh Water Consumption (KLD)	Recycle Water Consumption (KLD)	Total Water Consumption (KLD)	Waste Water Generation (KLD)
1	Domestic	10	-	10	8
2	Gardening	5	3	8	0
3	Industrial				
	Process	41	31	72	40
	Boiler	10	10	20	0.8
	Cooling Tower	4	-	4	0.2
	Others (Scrubbing, Washing etc.)	5	-	5	4
	Total (Industrial)	60	41	101	45

	Total (1+2+3)	75	44	119	53

ENVIRONMENTAL SETTINGS

sl. No.	Particulars	Details
1.	Climate conditions	Annual Mean Maximum Temperature: 34 °C Annual Mean Minimum Temperature: 21°C Annual Mean Maximum Rainfall: 720 mm
2.	Present land use at the location	Industrial Area
3.	Nearest Village	Bedwali (0.65 km, W)
4.	Nearest Town/City	Meghnagar City (1.9 km WSW)
5.	Nearest Railway Station	Meghnagar Railway Station (2.1 km, WSW)
6.	Nearest Hospital	Jivan Jyoti Hospital (2.04 km, West)
7.	Nearest Highway	MP-SH 39 (0.4 km, WNW)
8.	Nearest Airport	Indore Airport (130 km, East)
9.	Nearest Water Body	Anas River (3.8m km, SSE)
10.	Nearest Port	None in 10 Km radius
11.	Hills / valleys	None in 10 Km radius
12.	Ecological Sensitive Zone within 10 km distance	None in 10 Km radius

13.	Historical/ Archaeological Places	None in 10 Km radius
14.	National Park/ Wild life Sanctuary	None in 10 Km radius
15.	List of Mojor Industries (within 10 km radius)	1. API India Biotech Pvt. Ltd. 2. Madhya Bharat Phosphate Ltd. 3. Parth Rasayan Pvt. Ltd. 4. SR Ferro Alloys. 5. Padmavati Minerals.
16.	Seismic Zone	Zone-III according to the Indian Standard Seismic Zoning Map

The case was presented by the PP and their consultant in 282nd SEAC meeting dated 10/10/2016 wherein committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:

1. Worst case scenario study to be carried out with respect to Air, water and Soil environment and the mitigation measures to be proposed accordingly.
2. Product-wise Water balance along with the overall water balance to be worked out & presented so as to achieve 'Zero liquid discharge' from the unit.
3. Latest MSDS data with compliance plan to be furnished for all the raw material / finished products with their storage plan.
4. Inventory of all the raw material with mass balance of each of the chemicals being used or proposed to be used.
5. The EIA has to be prepared by an accredited consultant only.
6. Detailed plantation scheme essentially incorporating thick peripheral plantation to be furnished along with mapping of green areas on a lay-out map.
7. Inventory of all types of hazardous wastes expected from the industry with handling and management plan to be presented.
8. Plan for prevention of waste water percolation into the ground water to be submitted along with the plan of handling in case of spillage of any chemicals.
9. Existing pollution load with respect to air / water and soil to be presented.
10. List of material proposed to be stored beyond the prescribed threshhold limits.
11. Ground-water study shall be carried out in the region including the water table and the quality.
12. Details of solvent recovery system should be provided in the EIA report.

PP has submitted the EIA report vide letter dated 11/05/2017 which was forwarded by the SEIAA vide letter no. 529 dated 24/05/17.

This case was scheduled in 293rd SEAC meeting dated 17/06/2017 wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings after hearing from PP. Since this plant is located in Meghnagar Industrial Area, Committee also decided to carryout site visit of this project as per the policy decision of SEIAA taken in 250th SEIAA meeting dated 14/10/2015 stating that SEAC should also make a site visit before recommending the cases of Chemical Plants to SEIAA.

As per above discussions, the site visit (Annexure-1) was carried out by the SEAC members (Mohd. Kasam Khan, Chairman SEAC and Shri R. Maheshwari, member SEAC on 18/01/2018) and the following inspection report was placed in the meeting before the committee:

SITE VISIT REPORT OF THE COMMITTEE

Background:

The proposed project falls under item no 5(f) i.e. Synthetic organic chemicals, hence requires prior EC from SEIAA before initiation of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. The proposed project is located at Plot No. 99-A, AKVN Industrial Area, Meghnagar area of Jhabua district in Madhya Pradesh State.

The TOR was issued to this unit in the 282nd SEAC meeting dated 10/10/2016 and the case was scheduled for EIA presentation in the 293rd SEAC meeting for EIA presentation wherein PP remains absent and committee also decided to carryout site visit for this proposed unit as per the policy decision taken by SEIAA in their 250th meeting dated 14/10/2015.

As decided, Mohd. Kasam Khan, Chairman SEAC and Shri R. Maheshwari, member SEAC visited the site on 18/01/2018. The concerned Regional Officer, of MPPCB Dhar Region, Shri A.K. Bisen & Dr. Abhaya K Saxena, Sr. Scientific Officer, HO, Bhopal accompanied the SEAC team to the site. PP telephonically informed that due to ill health of his son he is unable to present during site visit.

Project location

This unit is located at Plot No. 99 A, AKVN, Industrial area, Meghnagar, District: Jhabua, Madhya Pradesh. It is approximately 15 Km distance from Dist. Jhabua. The salient features of the proposed project are as follows:

Project Proponent	M/s. Sri Riddhi Siddhi Colours
Project Name	Manufacturing of Dyes and Dyes Intermediates
Capacity	250 MT/Month
Estimated project cost	208.13 Lacs.
Coordinates & Address	Latitude: 22°54'48.17" N, Longitude: 74°33'37.06" E Plot no. 99/A, Audyogic Kendra Vikas Nigam Ltd. (AKVN), Taluka: Meghnagar, District: Jhabua, Madhya Pradesh, India.
Category & Schedule	5 (f) "B" as per EIA Notification, 2006
Total Plot Area	Total Area - 0.3 ha. (Green area - 0.099 ha. 33% of Total Plot Area)
Manpower Requirement	During Construction phase: 15 & During Operational phase: 10
Total Water Requirement	119 KLD (Source: AKVN Water Supply)
Waste Water Generation	53 KLD (Domestic: 8 KLD & Industrial: 45 KLD)
Power Requirement	200 KVA (Source: MPEB) 2 x 100 KVA DG Set as Stand-by

During site visit, it was observed that no structure is erected on the site and allotted area is protected by fencing of MS sheets from the tree sides and one side remains open. It was also observed during site visit that numerous old and rusted industrial equipments such as MME vessels, reaction vessels, storage tanks etc were lying on this plot and the person present (watchman) were unable to explain the need for such old & rusted equipments. The glass wool was also spread from these old equipments on the plot. One temporary rest room for watchman has been provided on site by PP. Some electric fabrication work of metal

sheets/steel guarders was going on the site and workers were unable to provide any details of this fabrication work.

RECOMMENDATIONS

As per the site observations, PP may be asked to provide following details for further considerations of their project:-

a. Details of all the old & rusted equipments stored on the plot.
b. Any proposal of using these old and rusted equipment in the proposed plant.
c. The glass wool spread near the old equipment should be collected properly in a container and PP should submit the disposal plan of this glass wool.
d. Details of electrical fabrication works being carried out on the site.

The committee after deliberations decided that as per the recommendations the desired information may be obtained from the PP within 30 days for further consideration of the project.

PP vide letter no. 80 dated 12/03/2018 was asked to submit the above information which was submitted by PP vide letter no. nil dated 07.05.2018 and the case was placed in the agenda for consideration. However, PP or his authorized representative was not present for appraisal of the project.
Further, Regional officer, MPPCB, Dhar vides letter no. 575 dtd. 25.06.2018 informed that the said unit has already obtained EC from MOEF&CC issued vide letter no. F. No. J-11011/411/2017-IA-II (I) dated 28.0902017. Committee on perusal of above letter, EC issued by the MoEF&CC and application made in from-1 observed that the location and products are identical and PP has obtained EC from MoEF&CC. Committee after deliberations recommends that since PP has already obtained EC from the MoEF&CC, this application may be rejected.

8. Case No. - 5427/2015 Shri Udaya Bhaskar Gullapalli, Sr. Vice President, M/s Reliance Industries Ltd, Bldg. No. - 7, B Wing, 2nd Floor, Reliance Corporate Park, Thane Belapur Road, Navi Mumbai Proposed Expansion of Multipurpose Chemical Terminal from 20175 KL to 80080 at Khasra No. - Kolukhedi (1555, 319, 1561, 1559, 1440), Bhouri (518, 515, 516, 517,1343,411/1/4 &514, 515, 516, 517, 1343, 411/1/2 & 514, 515, 516, 517, 1343, 411/1/1 & 514, 515, 516, 517, 1343, 411/ 1/3 & 514,507, 510/2, 511/1/1, 6, 509/2, 508, 522/2/2, 510/1, 521/1/1, 509/1 and 508, 522/2/1/2, 508, 507, 522, 511/2/2/1, 510/2), Barkheda Salam (1525, 1524, 1441), Bakania (320, 315, 314, 317, 322, 306, 487, 316, 313), Barkheda (1521, 1530, 1538, 1518, 1529, 1528, 1517, 1527, 1526,

1531, 1523, 1537,1393) Vill. – Bakaniya, P.O. Bhaunri, Teh. - Huzur, Distt.- Bhopal, (M.P.) Cat. - 6(b) Isolated Storage & handling of Hazardous Chemicals. EIA Consultant: Ultratech, Thane.

The Proposed project is of Multipurpose Chemical Terminal (MCT), Bhopal of Reliance Industries Limited (RIL) falls under **Category B, schedule 6** as per the EIA notification 14th Sep, 2006. Hence it requires prior EC from SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

Salient features of the project, proposed TOR and other details of the project were presented before the SEAC by the PP and his consultant, which reveals following:

- The Multipurpose Chemical Terminal (MCT), Bhopal of Reliance Industries Limited (RIL), was set up in year 2004 at Bakania, Huzur Taluka, Dist. Bhopal.
- The existing handling capacity of terminal is 20,175 KL. It also consist of truck loading gantry (8 bays) and railway siding facility.
- Receiving, Storing and Distribution of finished Petroleum Products (Class A and Class B).
- The Consent to Operate for the facility from MPPCB is valid till March, 2018
- RIL now proposes to increase the capacity of the terminal to 80,080 KL (operating capacity)
- Project: Expansion of Multipurpose Chemical Terminal from 20175 KL to 80080 KL.
- Project Cost: ~112 Crores
- Area: ~10.36 Ha within total plot area of ~80 Ha. No additional land required.
- Power: 33 KV from MPEB
- Back-up: DG Sets 3 x 325 kVA and 1 x 160 kVA for Emergency use
- Water: Purchase from local sources, supplied through tankers

Purpose	**Existing**	**Proposed**	**Remarks**
Fire Fighting Storage Capacity	6800 KL	13000 KL	Used only in emergency. Provision as per OISD 117
Service water & Domestic water req.	4 KL	25 KL	Max. Usage

Product Slate

Product	Existing Capacity (KL)	Proposed Capacity (KL)	Total Capacity after Expansion (KL)
High Speed Diesel (HSD)/ Superior Kerosene Oil (SKO)	14,490	49,485	63,975
Motor Spirit	5,685	10,250	15,935
Ethanol	--	180	180
DG (kVA)	2x160	1,135 (3x325+1x160)	1,135

- Additional dispatch facilities: Eight (8) bay truck loading rack
- Manpower Requirement:
  - ~150 people during construction (local people will be preferred)
  - ~ 5 people during operation on continuous basis

This case was presented by the PP for issuing of TOR to carryout EIA studies with site specific details in 283rd SEAC meeting dated 27/10/2016. Committee after deliberations recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:-

1. Since PP has named this project as "Chemical Storage Unit", thus PP should submit a written commitment with EIA report that in this facility only petroleum product will be stored.
2. During presentation, PP informed that the environmental studies have been already carried out in the summer, 2016. Thus PP was asked to submit the details justification of selection of sampling points.
3. EIA studies should be carried out considering the proposed master plan of the Bhopal city.
4. Any natural drainage nearby the facility should be protected and the detailed protection plan from any spillage should be discussed in the EIA report.

5. PP should explore the possibility of shifting the proposed expansion facility further away from the existing facility so that a buffer zone can be created between both the facility and nearby bypass road/highway.
6. PP should provide the details of existing trees and plan for proposed green belt.
7. Details of the plans to meet out crises such as fire accident to be furnished & presented in the EIA report.
8. Details of existing on-site / Off-site emergency plan and the proposed modification in view of expansion to be submitted.
9. Details of existing Safe Guards (Environmental as well as safety) and the proposed augmentations to be presented in the report.
10. Study of the ground-water regime shall be incorporated in the EIA study.
11. Pre-dominant wind direction to be ascertained and accordingly the Safety & Environment Management Plans prepared and reported.
12. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

PP vide letter dated 03/04/2018 has submitted the EIA report which was forwarded by the SEIAA vide letter no.41 dated: 06/04/2018, which was placed before the committee.

The EIA was presented by the PP and their consultant in the 314th SEAC meeting dated 10/05/2018, wherein after presentation PP was asked to submit response on following:

1. NABL accreditation certificate of the lab from which analysis has been carried out along with copy of all the lab reports of Air, Water, Soil, and Noise provided by the laboratory shall be submitted as same are not annexed with the EIA report and analysis are performed by other laboratory.
2. QCI accreditation certificate of EIA Consultant M/s Ultratech, Thane as the annexed certificate was valid till February, 2018 and during presentation consultant informed that their certificate has been renewed.
3. Copy of land mutation document to be submitted by the PP.
4. During TOR presentation, PP has informed that they have already collected the data in the summer of 2015 (March, April & May) which will be supplemented by the data of 2016 and may be permitted to use summer, 2015 data. On perusal of EIA report it was observed that consultant has only discussed about the data of summer 2016 but details of summer, 2015 data and their interpretation with the data of 2015 is missing which should be provided.
5. 80% calm conditions in summer season are predicted in the meteorological data analysis in the EIA for which proper justification shall be provided.

6. Detailed layout map with dimensions of all the facilities proposed including tanks & other and their inter distance with the existing facilities and how they confirm to relevant standards.
7. Photographs confirming the statement of PP that entire loading and unloading area is leaked proof with RCC base and having slope towards RCC drain and catch pit.
8. Details of the expenditure made for CSR in previous year for these villages i.e. Bharkheda Salam, Bhoui and many more in the vicinity, during last 05 year is to be submitted..
9. Detailed water balance chart to be submitted.
10. Detailed break-up of EMP and CSR as suggested by the committee during presentation with its bifurcation in capital and recurring cost.
11. The cost of PPE's proposed should be added in the EMP and issue record for existing facility of PPE's to the workers shall be submitted.
12. Record of occupational health survey carried out in the existing facility shall be submitted and subsequently the cost of health survey for proposed facility shall be added in the EMP cost.
13. EMP for pre-construction, operational phase and post construction period should be submitted.
14. Layout with dimensions of the peripheral drainage system shall also be provided.
15. Commitment for Zero Liquid Discharge shall be provided with proposed measures so that no contaminant shall be discharge outside the periphery of the project as the area lies in the catchment of Upper Lake.
16. Rain water harvesting plan to be submitted by the PP.
17. Undertaking with documentary proof by the PP that panchayat tax is paid and issued rose by Gram Barkheda Salam as these issues were raised in the public hearing.

Vide PP letter no.nil. Dtd.16.07.2018 has submitted the reply of above quaries through SEIAA which was and forwarded by the SEIAA vide letter no. 1163 dtd. 24.07.2018.

In this meeting EIA query reply was presented by the PP and their consultant and after presentation the same was found satisfactory. Except above issues, the EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for approval for Proposed Expansion of Multipurpose Chemical Terminal from 20,175 KL to 80,080 KL by M/s. Reliance Industries Limited at Khasra No. - Kolukhedi (1555, 319, 1561, 1559, 1440), Bhouri (518, 515, 516, 517,1343,411/1/4 &514, 515, 516, 517, 1343, 411/1/2 & 514, 515, 516, 517, 1343, 411/1/1 & 514, 515, 516, 517, 1343, 411/ 1/3 & 514,507, 510/2, 511/1/1, 6, 509/2, 508, 522/2/2, 510/1, 521/1/1, 509/1 and 508, 522/2/1/2, 508, 507, 522, 511/2/2/1, 510/2), Barkheda Salam (1525, 1524, 1441), Bakania (320, 315, 314, 317, 322, 306, 487, 316, 313), Barkheda (1521, 1530, 1538, 1518, 1529, 1528, 1517, 1527, 1526, 1531, 1523, 1537,1393) Vill. –

Bakaniya, P.O. Bhaunri, Teh. - Huzur, Distt.- Bhopal, (M.P.) Cat. - 6(b) Isolated Storage & handling of Hazardous Chemicals.. subject to the following special conditions:

(A) PRE-CONSTRUCTION PHASE

1. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
2. During demolition of pre-existing structures dust suppression, regular sprinkling of water should be undertaken.
3. Signboard of the proper size should be displayed at the appropriate places related to Do's and Don'ts at the time of civil or mechanical hazards/gas or liquid leakage.
4. PP will obtain other necessary clearances/NOC from respective authorities.
5. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter shall also be made available to local bodies, Panchayat, State Pollution Control Board and Regional Office**,** MoEF & CC GoI, Bhopal.
6. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

(B) CONSTRUCTION PHASE

7. Land use breakup details as proposed by PP for this facility are as follows:
8.

Sr. No.	LAND USE	AREA (Ha)	AREA (%)
1.	**Built-Up Land**	975.15	3.1
2.	**Water Bodies**	3469.95	11.02
3.	**Vegetation**	810.9	2.57
4.	**Crop Land** Irrigated crop land	2139.39	6.79
5.	Fallow land	4881.69	15.51
6.	**Waste Lands** Land with scrub	12644.9	40.15

7.	**Waste Lands** Land without scrub	6569.73	20.86
	Total	**31491.7**	**100.00**

9. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
10. Zero liquid discharge should be maintained by the plant.
11. Fire extinguishers should be provided on- site during construction/ plant erection period.
12. Water sprinkling arrangements shall be made to suppress the fugitive emissions and shall ensure that the ambient air quality is well within the prescribed norms by MoEF&CC/CPCB/MPPCB.
13. Properly tuned construction machinery and good condition vehicles with mufflers (low noise generating and having PUC certificate) should be used and turned off which not in use.
14. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
15. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
16. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
17. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
18. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
19. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.
20. In such Units where highly flammable material is dealt where workers might be exposed to uncontrolled electrical, mechanical, hydraulic, or other sources of hazardous energy if equipment is not designed, installed, and maintained properly. So, such operating procedures must be developed and implemented to ensure safe operations.
21. The overall systems for tank filling control should be of high integrity, with sufficient independence to ensure timely and safe shutdown to prevent tank overflow.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

22. Fire/smoke detection devices should be fitted all around the depot.
23. Plantation shall be carried out by the PP as per submitted plan in the earmarked area or on available degraded land.
24. The total water requirement will be 08 KLD.
25. Use of Solar Energy should be promoted in the project area where ever possible.
26. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016 etc.
27. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
28. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
29. Workers in such industry are generally susceptible to various health and chemical hazards (toxic, corrosive, carcinogens, asphyxiates, irritant and sensitizing substances); physical hazards (noise, vibration, radiations, extreme temperature); biological hazards (virus, parasites, bacteria); ergonomic hazards (manual handling activities, repetitive motions, awkward postures); and psychosocial hazards (overwork, odd working hours, isolated sites, violence) so regular occupational health check should be done on regular basis .

(D) ENTIRE LIFE OF THE PROJECT

30. For Environmental Management Plan a budgetary provision of Rs. 20.6015 Crore as capital cost and provision of Rs. 04.40 Crore as recurring cost. Out of this Rs. 35.0 Lacs are proposed for Environmental Monitoring as capital and 2.39522 Lacs are proposed for recurring cost and Rs, 12,46,200 kept aside for green belt / horticulture. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell.
31. Approximately 85.0 Lakh are proposed under CER activities for seven years for different heads .
32. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
33. All commitments pertaining to public hearing shall be mandatory on part of PP.

34. All safety provision should be followed as prescribed in the Petroleum & Explosives Safety Organization.
35. The environment policy should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
36. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.
37. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
38. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
39. On- site & Off - site management plan should be properly prepared as per Schedule in the MSHIC Rule 1989.
40. Being it is a MAH unit hence mock drill will be conducted twice in the year as per norms made in the MSIHC Rule 1989.
41. Awareness campaign should be promoted in within premises/and surrounding area and
42. Also Safety day, World Environmental day, World Disaster day should also be observed by the Unit.
43. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.

9. Case No. - 5723/2018 Sarpanch, Gram Panchayat Silgi, Tehsil - Mandla, Dist. Mandla, MP Prior Environment Clearance for Sand mine in an area of 6.0 Ha. (1,05,948 cum per annum) (Khasra no. 1) at Village- Silgi, Tehsil - Mandla, Dist. Mandla (MP)

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 1) at Village- Silgi, Tehsil - Mandla, Dist. Mandla (MP) 6.0 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office vide letter no. 555 dated 02/5/2018 has reported that there is

01 more mine operating or proposed within 500 meters around the said mine with total area of 11.100 ha including this mine

In this meeting the case was presented by the PP and their consultant. During presentation it was observed by the committee that replenishment details of sand are not provided in the mine plan. Thus PP was asked to provide replenishment details duly approved by the competent authority for further consideration of the project.

10. Case No. - 5724/2018 Sarpanch, Gram Panchayat Bhapsa, Tehsil - Mandla, Dist. Mandla, MP Prior Environment Clearance for Sand mine in an area of 5.10 Ha. (1,03,275 cum per annum) (Khasra no. 412) at Village- Bhapsa, Tehsil - Mandla, Dist. Mandla (MP)

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 412) at Village- Bhapsa, Tehsil - Mandla, Dist. Mandla (MP) 5.10 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office vide letter no. 553 dated 02/5/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

In this meeting the case was presented by the PP and their consultant. During presentation it was observed by the committee that replenishment details of sand are not provided in the mine plan. Thus PP was asked to provide replenishment details duly approved by the competent authority for further consideration of the project.

11. Case No. - 5725/2018 Sarpanch, Gram Panchayat Tikarwara, Tehsil - Mandla, Dist. Mandla, MP – 481771 Prior Environment Clearance for Sand mine in an area of 6.00 Ha. (1,15,668 cum per annum) (Khasra no. 298/1) at Village- Tikarwara, Tehsil - Mandla, Dist. Mandla (MP)

This is case of Sand mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 298/1) at Village- Tikarwara, Tehsil - Mandla, Dist. Mandla (MP) 6.00 ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly

verified in the Collector's office vide letter no. 554 dated 02/5/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office vide letter no. 553 dated 02/5/2018 has reported that there is no more mine operating or proposed within 500 meters around the said mine.

In this meeting the case was presented by the PP and their consultant. During presentation it was observed by the committee that replenishment details of sand are not provided in the mine plan. Thus PP was asked to provide replenishment details duly approved by the competent authority for further consideration of the project.

12. 5692/2018 Shri Omprakash Bhadrathia, Kant, P.O.Dhunao Thana, Dist. Gwalior, (M.P.) – 474006 Prior Environment Clearance for Expanssion in Stone Mine from 30,000 MTPA to Max.- 2,80827 cu.m./Year, Lease Area - 8.0 Ha., Khasra No.- 01 at Village- Chandrapura, Tehsil - Gwalior, Distt. - Gwalior (M.P.).

This is case of Expanssion in Stone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at Khasra no. - 01 at Village- Chandrapura, Tehsil - Gwalior, Distt. - Gwalior (M.P.) 8.00. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector's office (Ekal Praman Patra) vide letter no. 5341 dated 23/4/2018 has reported that there are 06 more mine operating or proposed within 500 meters around the said mine with total area of 38.519 ha including this mine.

Earlier this case was scheduled for the presentation in the 318th SEAC meeting dated 21/06/2017, wherein it was recorded that: Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings and in case the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

Earlier this case was scheduled in the SEAC 321 meeting on dated 16.08.2018 but on the request of PP committee considered and this case has been scheduled in 323 SEAC meeting.

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In this meeting the case was presented by the PP and their consultant for expansion production capacity from 30000 MTPA to 2,80,827 Cu.mt/year. The total area of the lease including cluster area is 38.519 ha for which PP submitted that three mines are not in operation more than 03 years and one mine has obtained EC before 15/01/2016 as per MO letter dated 23/04/2018 and thus will not count under cluster situation as per MoEF&CC notification dated 01/07/2016. The total area of these 04 mines is approx. 25 ha and thus in this project EIA and public hearing is not desired. PP further submitted that they have submitted comprehensive EMP for consideration.

As this is the case of expansion, PP has also submitted the MoEF&CC compliance report of earlier EC conditions. As per the report of MoEF&CC, the compliance is satisfactory. During presentation, it was observed by the committee that as per the Google image, the lease is encroached by the other miners and mining will be difficult in this area for which PP submitted that this area was already excavated when the lease was allotted to them. During presentation it was observed by the committee that one village is in existence on the SE side approx. 400 meters away from the lease and considering the volume of production committee recommends that dense plantation shall be carried out towards this village side.

Committee after presentation and discussion asked PP to submit response for the following:

1. Revised Plantatation scheme for 8000 plantations, species with budgetary allocations as suggested by committee.
2. Revised EMP cost as suggested by the committee.
3. Revised operation plan considering the already excavated area.
4. Geological reserves estimations.
5. Commitment from PP regarding Zero Liquid discharge.
6. Photographs showing the existing plantation.

PP has submitted the response of above quarries vide letter dated 18.08.2018 which was placed before the committee and the same found satisfactory. The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to <u>recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':</u>

1. Production shall be as per mine plan with quantity not exceeding for Stone 2,80,827 Cu.mt/year.
2. The lease area should be clearly distinguished and permanent earmarked at the site.
3. Thick plantation shall be carryout towards the village side existing on the SE side of the lease.
4. Six monthly occupational health survey shall be carryout

5. Risk in western side of the mining lease is very high hence additional safety measures should be adopted by the PP.
6. PP should explore possibility of using solar lights in office /rest areas.
7. Overhead sprinklers arrangements should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road.
8. Approach road from site to the main road will be maintained by the PP.
9. Top soil shall be simultaneously used for the plantation.
10. Total 8000 nos. of trees shall be planted in the earmark area of the lease in five years period, for this PP proposed a separate budget of Rs. 40.50 Lacks.
11. A budgetary provision for Environmental management Plan of Rs. 44.40 lacks (capital) is made with a recurring expenditure of 2.70 Lacks .Under CSR Rs. 5.0 lacks/year is proposed for various activities. A separate bank account should be maintained for all the expenses made in the EMP and CSR activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

(Dr. Mohd. Akram Khan)
Member

(Dr. A.K. Sharma)
Member

(Dr. J. P. Shukla)
Member

(Prashant Shrivastava)
Member

(Mohd. Kasam Khan)
Chairman

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions:

Annexure- 'A'

Standard conditions applicable to Stone/Murrum and Soil quarries:

1. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA
4. Transportation of material shall be done in covered vehicles.
5. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
6. Curtaining of site shall be done using appropriate media.
7. The proposed plantation should be carried out along with the mining @45 trees per hectare and PP would maintain the plants for five years including casualty replacement.
8. Transportation shall not be carried out through forest area.
9. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat.
10. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
11. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
12. NOC of gram panchayat should be obtained for the water requirement.
13. PP should also maintain a log book containing annual details of tree plantation and causality replacement.
14. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
15. Mining should be done as per the submitted land use plan submitted by PP.

Annexure- 'B'

Standard conditions applicable for the sand Mine Quarries*

1. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
4. Plantation shall be carried out on the banks for stabilization of the banks.
5. The mining activity shall be done manually.
6. No heavy vehicles shall be allowed to enter the river bed and the transportation of the sand from the excavation pits of the leased area to the loading point shall be through trollies (tractor trollies) and not by heavy vehicles. Only registered tractor trollies which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.
7. NOC of gram panchayat should be obtained for the water requirement.
8. Transport vehicles will be covered with taurpoline to minimize dust/sand particle emissions.
9. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
10. No Mining shall be carried out during Monsoon season.
11. The depth of mining shall be restricted to 3m or water level, whichever is less.
12. No in-stream mining shall be allowed.
13. The mining shall be carried out strictly as per the approved mining plan and ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
14. Established water conveyance channels should not be relocated, straightened, or modified.
15. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
16. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
17. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
18. EC will be valid for mine lease period subject to a ceiling of 5 years.
19. Mining should be done as per the submitted land use plan submitted by PP.

Annexure- 'C'

Standard conditions applicable for the Khodu Bharu sand Mine Quarries*

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
3. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
4. The amount towards reclamation of the land in MLA shall be carried out through the mining department; the appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
5. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
6. The mining activity shall be done manually.
7. Heavy vehicles shall not be allowed for removal of sand.
8. The sand shall be transported by small trolleys up to the main transport vehicle.
9. Transport vehicles will be covered with taurpoline to minimize dust/sand particle emissions.
10. No Mining shall be carried out during Monsoon season.
11. PP shall take Socio-economic activity in the region through the 'Gram Panchayat'.
12. NOC of gram panchayat should be obtained for the water requirement.
13. EC will be valid for mine lease period/mine plan subject to a ceiling of 5 years.
14. The mining shall be carried out strictly as per the approved mining plan.

Annexure- 'D'

General conditions applicable for the granting of TOR

1. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
2. An inventory of flora & fauna based on actual ground survey shall be presented.
3. Risk factors with their management plan should be discussed in the EIA report.
4. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
5. The EIA document shall be printed on both sides, as far as possible.
6. All documents should be properly indexed, page numbered.
7. Period/date of data collection should be clearly indicated.
8. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.

9. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
10. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
11. Grant of TOR does not mean grant of EC.
12. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
13. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
14. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
15. All the necessary NOC's duly verified by the competent authority should be annexed.
16. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
17. The EIA report should clearly mention activity wise EMP and CSR cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CSR cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
18. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
19. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
20. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
21. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
22. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.

FOR PROJECTS LOCATED IN SCHEDULED (V) TRIBAL AREA , following should be studied and discussed in EIA Report before Public Hearing as per the instruction of SEIAA vide letter No. 1241 dated 30/07/2018.

23. Detailed analysis by a National Institute of repute of all aspects of the health of the residents of the Schedule Tribal block.
24. Detailed analysis of availability and quality of the drinking water resources available in the block.
25. A study by CPCB of the methodology of disposal of industrial waste from the existing industries in the block, whether it is being done in a manner that mitigate all health and environmental risks.
26. The consent of Gram Sabha of the villages in the area where project is proposed shall be obtained.