STATE EXPERT APPRAISAL COMMITTEE MINUTES OF 316th MEETING **19 June 2018**

The 316th meeting of the State Expert Appraisal Committee (SEAC) was held on 19 June, 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. Sonal Mehta, Member.
3. Shri Prasant Srivastava, Member.
4. Dr. Jai Prakash Shukla, Member.
5. Shri R. Maheshwari, Member.

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

1. Case No.5547/17 M/s Satguru Cements Pvt. Ltd, 601/1, Airen Heights, Scheme No. 54, PU 3, Opposite C-21 Mall, A.B.Road, Indore, MP Prior Environment Clearance for Limestone Mine in an area of 8.941 Ha. (50,000 TPA ha.) (Khasra no. 147/1, 247, 249) at Village- Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) (EIA Consultant: M/s CES, Bhopal.).

This is case of Limestone Deposit. The application was forwarded by SEIAA to SEAC for appraisal.The proposed site at (Khasra no. 147/1, 247, 249) at Village- Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) 8.941 Ha.The project requires prior EC before commencement of any activity at site.

Environment setting

Particulars	**Details**
Locations	
Village	Ghursal
Tehsil	Gandhwani
District	Dhar
State	MP
Nearest National/state Highway	SH-38 – 1.25km – E
Nearest Railway Station	Mhow – 75.0km
Nearest Airport	Indore
Nearest Tourist Place	None in 10 km radius
Archaeological Important Place	None in 10 km radius
Ecological Sensitive Areas (Wild Life	None in 10 km radius

Sanctuaries)	
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sardarpur RF- 5.00 km - N
Nearest major city with 100000 population	None in 10 km radius
Nearest village	Ghursal - 0.30km - E
Nearest Town	Gandhwani - 7.25km
Physiography	Undulating
Slope	E, SE
Nearest River	Man River - 3.75 km - ESE Sukkar Nadi - 0.08km - E
Nearest nalla/ pond/canal	Man Reservoir - 3.75 km - ENE Local Nalla - 0.010km - N
Nearest hill/valley	Sardarpur Pahar - 5.0km - N
Industry within 10km radius	M/s Satguru Cement Pvt. Ltd.

It was repoted by the PP that:

- The lease was granted for period of 50years from 29.12.2016 to 28.12.2066.
- The lease area comes under Govt. land.
- One other lease area is located within 500m radius
- Mining activity will be proposed in lease area after obtaining environmental clearance and consent to operate from MPPCB
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.

Salient feature of the lease area

Particulars	**Details**
Type of Mine	Open Cast
Mining Lease Area	8.941ha
Existing Pits & Quarries	1.40ha
Existing Dumps	0.12ha
Infrastructure and road	0.12ha
Plantation	Nil
Total Minable Reserve	935100.00 T
Method of mining	OTFM
Ultimate Depth of Mining	10m bgl (upto 292m MSL)
Expected Life of Mines	22years

Stripping Ratio	1:0.05
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	7.22ha
Area to be reclaimed in conceptual period	2.50ha
Area to be rehabilitated by afforestation in conceptual period	4.0ha
Area to be covered under water reservoir	4.0ha
Ground water table	4.0ha
Monsoon period	35m bgl (267m AMSL)
Dry month	40m bgl (262m AMSL)
Production per day (T)	167.00T
Truck per day (24t)	7.0
End user of mineral	Cement grade, Cement Industries and beneficiation plant
Supply location	Captive use – 3.0km

Post land use plan

Items	Existing	At the end of conceptual period
Total lease area	8.941ha	
Mineable area	7.22	
Ultimate depth of mining	10m bgl	10m bgl (292m MSL)
Ultimate pit slope	80	45^{o}
Area under dumps	0.12ha	Nil
Area under mineral stack	Nil	Nil
Area under pits	1.40ha	7.22ha
Area to be backfilled	Nil	2.50 (partially)
Infrastructure & Road	0.14ha	Nil
Plantation	Nil	4.0ha
Water body	0.2ha	4.0h

The case was presented by the PP and their consultant in 77th SEAC-II meeting dated 24/05/2017, wherein it was recorded that it's a case of Limestone Mine and falls under B-1 category committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA with following additional TORs:-

1. Approved mining plan to be submitted at the time of EIA Presentation.
2. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
3. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
4. Transportation plan & traffic management plan should be discussed in the EIA report.
5. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
6. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
7. Compliance of consent conditions duly authenticated by concerned Regional Officer, MP Pollution Control Board.
8. Year wise details of minerals already excavated till date should be submitted with EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
11. Input data of modeling should be addressed in EIA along with this all back up calculation.
12. Onsite pictures of monitoring and survey along with date and time on photographs should be attached with the EIA report.
13. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
14. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
15. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
16. Since the mining site is in close proximity of city area hence atleast 08 stations should be selected for monitoring and results should be discussed in the EIA report.
17. PP would follow environmental extend rules.

PP has submitted the EIA report vide letter dated 01/05/2018 which was farwarded through SEIAA vide letter no. - 337 dated 08/05/2018, which was placed before the committee.During presentation PP and his consultant presented the salient features of the project, EIA, baseline data and the proposed EMP before the committee.

Method of Mining

- Presently four pits have been observed in lease area, which covers 1.40ha area.
- Proposed mining will be done by opencast other than fully mechanized method with help of Excavator cum loader & JCB. During the SOM period, working will be done in earlier

excavated pit no. 1 by developing benches in limestone bed and overburden with one development bench and three production benches.

- The limestone is fragmented and occasional blasting may be required. Limestone is amenable to break by rock breaker. Drilling will be carried out by compressed air fed wagon drills.
- During the conceptual period about 7.22ha area will be excavated upto 292m MSL (10m bgl) with one development bench and 4 to 5 production benches with height of 2 to 6m in the end of conceptual period.
- The thickness of alluvial soil and murrum is of around 0.3 to 0.6m and acting as overburden. The deposit is of flat nature and can be opened up easily by removing alluvial soil and murrum

Details of already excavated area	
Pit no.	**Excavated area**
Pit no. 1	280mL x 25mW x 6m D
Pit no. 2	70mL x 15mW x 6m D
Pit no. 3	80mL x 20mW x 7m D
Pit no. 4	240mL x 10-40mW x 10m D

Summary of Year wise development/production							
Year	**Pit No.**	**Overburden in m^3 (waste) (a)**	**ROM Ore mt (b)**	**Saleable Ore mt. (c)**	**Sub grade Ore mt. (d)**	**Mineral rejects mt (e)**	**Ore to OB (a+d+e) ratio T/m^3 (c / (a+d+e)**
1st	1	420	21000	18900	-	2100	1:0.05
2nd	1	420	21000	18900	-	2100	1:0.05
3rd	1	435	21750	19575	-	2175	1:0.05
4th	1	450	22500	20250	-	2250	1:0.05
5th	1	450	22500	20250	-	2250	1:0.05
Total	--"--	**2175**	**108750**	**97875**	**-**	**10875**	1:0.05

Following drain are suggested for management of mine water discharge and runoff :

Details of Proposed Garland Drain		
Garland drain no.	**Location of Garland drain**	**Size mL X mW X mD**
PGD_1	BP_1 to BP_4	400 X 0.5 X 1.0
PGD_2	BP-4to BP-7	615 X 0.5 X 1.0
PGD_3	BP-7 to BP-12	475X 0.5 X 1.0
PGD_4	BP-13 to BP-17	440 X 0.5 X 1.0

PGD_5	BP-18 to BP-21	400X 0.5 X 1.0
PGD_6	BP-25 to BP-31	540X 0.5 X 1.0
PGD_7	BP-31 to BP-1	475 X 0.5 X 1.0
PGD_1	BP_1 to BP_4	400 X 0.5 X 1.0

Details of Proposed Settling Pit		
Indentified Drain with No.	**No. of Settling Pit**	**Size of Settling Pit (M) L X W X D**
PGD_1	PSP_1	0.50x0.50x1.50
PGD_2	PSP_2	0.50x0.50x1.50
PGD_2	PSP_3	0.50x0.50x1.50
PGD_2	PSP_4	0.50x0.50x1.50
PGD_2	PSP_5	0.50x0.50x1.50
PGD_3	PSP_6	0.50x0.50x1.50
PGD_4	PSP_7	0.50x0.50x1.50
PGD_4	PSP_8	0.50x0.50x1.50
PGD_5	PSP_9	0.50x0.50x1.50
PGD_6	PSP_10	0.50x0.50x1.50
PGD_6	PSP_11	0.50x0.50x1.50
PGD_7	PSP_12	0.50x0.50x1.50
PGD_7	PSP_13	0.50x0.50x1.50
PGD_7	PSP_14	0.50x0.50x1.50

Details of Proposed Settling Tank			**Capacity KL**
Settling tank no. 1	BP_1to BP-3	1216M2 X 5.0mD	6080.00
Settling tank no. 2	BP_9 & BP_11	2495M2X 5.0mD	12475.00
Details of existing water body			
Pit-4	BP_21	240mLX 10-40mW X 10mD	30000.00
		Total	**48555.00**

Time Bound Plantation Programme		
Year	**Area**	**Number of Plants**
1st	0.30ha + 1400m (Road side)	600+ 1120 = 1720
2nd	0.30	600
3rd	0.30	600

4th	0.30	600
5th	0.30	600
Total	**1.50+1400m**	**3000 + 1120**

Budget for Plantation				
S. No.	**Head**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**
	Within lease area			
1st	Saplings, with earth work and pesticides	600	250/-	1,50,000/-
2nd	As Above	600	250/-	1,50,000/-
3rd	As Above	600	250/-	1,50,000/-
4th	As Above	600	250/-	1,50,000/-
5th	As Above	600	250/-	1,50,000/-
6th to CP	As Above	5000	250/-	12,50,000/-
	Total	**8000**		**20,00,000/-**
	Along the transport road			
1st year	Saplings, with earth work and pesticides and tree guard	1120	355/-	3,97,600/- @3,98,000
	Total	**1120**		**3,98,000/-**
	Grand total	**9120**		**23,98,000/-**

SOCIO ECONOMIC MEASURES

SN	**Plan**	**Activity**	**Place of activity**	**Budgetary provisions (Rs in lakh)**	
				Capital	**Recurring**
1.	Promotion of quality education	To provide teacher at village to promote child and adult education	Rataitola, Mohanpura, Chikli, Soliya, Karondiya & Borghata (weakly)	0.50	1.20 (@0.10 per month)
2	To provide need base infrastructure	At school of Ghursal, Borghata, Mohanpura	12 months	1.00	1.00
3	Free medical camp	Medical Checkup facility, first aid and	Quarterly	-	0.50

		other welfare activities for nearby villagers			
4	Drip Irrigation facility at nearby villages	Motivation and financial assistance to the framers of nearby villages for drip irrigation	Yearly	1.00	1.00
5	To provide drinking water facility	Hand pump provide for drinking water at Rataitola, Mohanpura, Chikli, Soliya, Karondiya & Borghata (Two hand pump each village)	Yearly	2.00	1.00
6	To provide financial support to gram panchyat for need base facility		Yearly	-	1.00
7.	To provide playground at village Ghursal	Developed the play ground after providing land for gram Panchayat	Yearly	-	0.50
			Total	**4.50**	**6.20**

Total Cost (EMP + CSR+ plantation + Monitoring)		
Particular	**Amount (Lakh) per annum – Capital**	**Amount in Rs (Lakh) per annum – Recurring**
Dust Suppression through tanker over haul road of 500 mt road * 6.0m (20 Rs/km) Approx running per day 4 km (Total 08 trip Per day) @200 day mm= 800 km per annum	-	0.16 (800 X20) Say 0.20
Dust Suppression through tanker over Transport Road 1400mt road * 6.0m (15Rs/km) Approx running per day 23km 08 trip per day) @200 day = 4600 km per annum	-	0.69 (4600X15) Say 0.70

Sub Total		**0.90**
Plantation (Capital cost) Along the transport Road	3.98	-
Maintenance of Plantation (Along the village Road & lease area) @Rs 45/- per plant	-	1.35 Say 1.40 (Yearly average)
Plantation (Capital cost) within lease area	20.0	-
Sub Total	**23.98**	**1.35**
Roads repair and maintenance (1.00km@2.0 lakh per Km)	-	2.00
Construction of WBM road – 1000mx 6.0mW @9.0lakh per KM	9.00	
Sub Total	**9.00**	**2.00**
Construction of retaining wall @2250mL X 1.5mH X 0.25-0.50mW (150rs per meter)	3.38	1.13@50Rs per meter
Sub total	**3.38**	**1.13**
Barbed fencing@2250m	6.75@300Rs running meter	1.13@50Rs running meter
Sub total	**6.75**	**1.13**
Occupational health and safety exp. (Half yearly medical checkup of workers @60workers)	7.50	2.50
Sub Total	**7.50**	**2.50**
Environmental Monitoring cost	11.50	7.80
Sub Total	**11.50**	**7.80**
Total EMP cost	**62.11**	**16.81**
CSR cost	4.50	6.20
To provide toilet facility at village Rataitola, Mohanpura, Chikli, Soliya, Karondiya & Borghata (Two Toilet each for man and women for every village) with water and cleaning facility under Swatch Bharat Yojana (PH Issue)	3.00 X 6 village = 18.00	1.50
Sub Total	**22.50**	**7.70**
Grand Total	**84.61**	**24.51**

After detail discussion, committee has aksed the PP to submit the following information:

1. Comittement for provision of over head sprinker arrangement and use of solar pump for the same.
2. Revised CSR budgte.

PP has submitted the response of above quarries vide letter dated 19.06.2018 which was placed before the committee and the same 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 mining lease in an area of 8.941 ha. (50,000TPA) at, Khasra No. 147/1, 247, 249 at Village - Ghursal, Tehsil - Gandhwani, Dist.- Dhar(MP), 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 activity 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. WBM road of 1400 mtr for carrying out the transporation shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

9. Control Blasting shall be carried out considering a village on SE side.
10. Overcharging of the dril hole during shot firing should be avoided.
11. Minimum 60 meter safety barrier shall be left from water logged area or same should be dewatered and desilted before minimg operations.
12. Reatining wall along with drain shall be provided all around the down side of the hillock with atleast 1 mtrs height.
13. 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) to provide additional protection in one year only.
14. 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 9200no's of trees will be planted along and within the ML.

15. Transportation of material shall be done in covered vehicles.
16. Transportation of minerals shall not be carried out through forest area.
17. The OB as bassalt shall be eutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
18. Garland drains 400mL X 0.5mW X 1.0mD, 615mL X 0.5mW X 1.0mD, 475mL X 0.5mW X 1.0mD, 440mL X 0.5mW X 1.0mD, 400mL X 0.5mW X 1.0mD, 540mL X 0.5mW X 1.0mD, 475mL X 0.5mW X 1.0mD, 400mL X 0.5mW X 1.0mD with 14 settling pits should be provided to avoid silt discharge. Two settling tanks (1216sqm X 5.0m D, 2495Sqm X 5.0m D) shall be connected with garland drains and settling pits shall be provided for proper sedimentation.
19. Water sprinkling through tankers should be provided on 1500 meter long and 7.5 meter wide wide transport road for dust suppression.
20. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
21. The existing and proposed land use plan of the mine is as follows:

Items	Existing	At the end of conceptual period
Total lease area	8.941ha	
Mineable area	7.22	
Area under dumps	0.12ha	Nil
Area under mineral stack	Nil	Nil
Area under pits	1.40ha	7.22ha
Area under infrastructure and road	0.12ha	Nil
Area under plantation	Nil	1.50ha
Un-worked area	7.301ha	0.221ha
Total area	8.941ha	8.941ha
Area to be backfilled	Nil	2.50ha (partially)
Water body	0.24ha	4.0ha
Plantation	Nil	4.0ha
Plantation in un-worked area	Nil	1.50ha (3000no. Plants)
Plantation in backfilling area	Nil	2.50ha (5000no. Plants)

22. 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.
23. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
24. The commitments made in the public hearing are to be fulfilled by the PP.

25. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
26. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

27. The proposed EMP cost is Rs. 62.11 lacks and Rs. 16.81 lacks /year are proposed as capital and recurring expenses respectively out of which Rs. 23.98 lacks is proposed for green belt development inclusive of green belt along transport raod and Rs. 1.35 lacks /year for recurring expenses for plantation in the proposed EMP of this project.
28. Under CSR activity, Rs. 4.50 lacks and Rs. 6.20 lacks /year are proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
29. The adequate budget shall be provided for the PH issue i.e. deeping of water pond (Rs 18 Lacs and 1.50 as capital and recurring expenses respectively) .
30. 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.
31. 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.
32. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
33. PP will comply with all the commitments made vide letter dated 20.06.2018
34. 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. 5545/17 M/s Satguru Cements Pvt. Ltd, 601/1, Airen Heights, Scheme No. 54, PU-3, Opposite C-21 Mall, A.B. Road, Indore, MP Prior Environment Clearance for Limestone Mine in an area of 6.773 Ha.. (7600 TPA ha.) (Khasra no. 160, 162, 203, 167, 168, 169) at Village- Ghursal, Tehsil - Gandhwani, Dist. Dhar (MP) (EIA Consultant: M/s CES, Bhopal.).</u>

This is case of Limestone Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra no. 160, 162, 203, 167, 168, 169) at Village- Ghursal,

Tehsil - Gandhwani, Dist. Dhar (MP) 6.773 ha. The project requires prior EC before commencement of any activity at site.

Environment setting

Particulars	**Details**
Locations	
Village	Ghursal
Tehsil	Gandhwani
District	Dhar
State	MP
Nearest National/state Highway	SH-38 – 1.75km – E
Nearest Railway Station	Mhow – 75.0km
Nearest Airport	Indore
Nearest Tourist Place	None in 10 km radius
Archaeological Important Place	None in 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None in 10 km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Sardarpur RF- 5.00 km - NE
Nearest major city with 100000 population	None in 10 km radius
Nearest village	Ratitalai - 1.0km - E
Nearest Town	Gandhwani - 7.25km
Physiography	Undulating
Slope	E, SE
Nearest River	Man River - 4.0 km - ESE Sukkar Nadi - 1.00km - E
Nearest nalla/ pond/canal	Man Reservoir - 4.25 km - ENE Local Nalla - 0.010km - S
Nearest hill/valley	Sardarpur Pahar - 5.0km - N
Industry within 10km radius	M/s Satguru Cement Pvt. Ltd.

It was repoted by the PP that

- The lease was granted for period of 50years from 09.01.2017 to 08.01.2067.

- The lease area comes under Govt. land.
- One other lease area is located within 500m radius.
- Mining activity will be proposed in lease area after obtaining environmental clearance and consent to operate from MPPCB.
- The scheme of mining with progressive mine closure plan has been approved by IBM, Nagpur.

Salient feature of the lease area

Particulars	**Details**
Type of Mine	Open Cast
Mining Lease Area	6.773 ha
Existing Pits & Quarries	Nil
Existing Dumps	Nil
Infrastructure and road	Nil
Plantation	Nil
Total Minable Reserve	189734.00t
Method of mining	OTFM
Ultimate Depth of Mining	2m bgl (upto 280m MSL)
Expected Life of Mines	27 years
Stripping Ratio	Nil
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	1.0849ha
Area to be reclaimed in conceptual period	Nil
Area to be rehabilitated by afforestation in conceptual period	1.25ha
Area to be covered under water reservoir	Nil
Ground water table	
Monsoon period	15m bgl (267m AMSL)
Dry month	20m bgl (262m AMSL)
Production per day (T)	25T
Truck per day (24t)	1.0
End user of mineral	Cement grade, Cement Industries and beneficiation plant
Supply location	Captive use – 3.0km

Post land use plan

Items	Existing	At the end of conceptual period
Total lease area	6.773 ha	
Mineable area	1.0849 ha (in block-A)	
Ultimate depth of mining	Nil	2 m bgl (280 m AMSL)
Ultimate pit slope	Nil	45 ^{o}
Area under dumps	Nil	Nil
Area under mineral stack	Nil	Nil
Area under pits	Nil	1.0849 ha
Area to be backfilled	Nil	Nil
Infrastructure & Road	Nil	Nil
Plantation	Nil	2.0ha
Water body	Nil	Nil

Earlier this case was scheduled for presentation 75th SEAC-II meeting dated-04/05/2017, *wherein 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. PP vide letter dated 02/05/2017 requested to give another chance for presentation as his EIA consultant and his team is unable to attend the meeting due to some genuine reason. Committee accept the request of the PP and decided to give another chance in subsequent SEAC meetings and even it the PP remains absent, 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 consultatnt in 77th SEAC-II meeting dated 24/05/2017, wherein it was recorded that it's a case of Limestone Mine and falls under B-1 category committee recommended to issue standard TOR prescribed by the MoEF&CC for conducting the EIA with following additional TORs:-

1. Approved mining plan to be submitted at the time of EIA Presentation.
2. Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
3. If on the evacuation route there are human settlements justify how they will be protected or suggest alternate evacuation route.
4. Transportation plan & traffic management plan should be discussed in the EIA report.
5. Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.

6. Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
7. Compliance of consent conditions duly authenticated by concerned Regional Officer, MP Pollution Control Board.
8. Year wise details of minerals already excavated till date should be submitted with EIA report.
9. Hydro geological study should be carried out if ground water intersection is proposed.
10. Top soil management plan should be addressed in EIA report.
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13. Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
14. Ground water table data should be compared with data of Central Ground Water Board authorities nearest sampling point.
15. Water quality of all the villages within 10 k.m radius should be studied and result should be incorporated in final EIA report.
16. Since the mining site is in close proximity of city area hence atleast 08 stations should be selected for monitoring and results should be discussed in the EIA report.
17. PP would follow environmental extend rules.

PP has submitted the EIA report vide letter dated 02/05/2018 which was farwarded through SEIAA vide letter no. - 335 dated 08/05/2018, which was placed before the committee.During presentation PP and his consultant presented the salient features of the project, EIA, baseline data and the proposed EMP before the committee.

1. During Presentation it was reported that the mine is divied in three Block namely Block-A, Block-B & Block-C.
2. Mine is surrounded by the agricultural land and Nalla (10m). PP has proposed to develop two row planatation along the nalla.
3. Resrve detail has been discussed and found sataisfactory, which is as per the approved mining plan. Geo technical detauils were discussed and found satisfactory considering proposed bottom area of the ultimate pit
4. As reported that water table is around 15-20 mt BGl and ultimate depth is proposed 2 mtrs bgl.

Method of Mining

- Proposed mining will be done by opencast other than fully mechanized method with help of Excavator cum loader & JCB.
- The limestone is fragmented and occasional blasting may be required and limestone is amenable to break by rock breaker.
- During the SOM period, mining will be carried out in eastern part of the lease area in Block-A.
- During the period of first five years, cumulative area of development will be in 0.2256 ha area will be developed between the MRL 288m and 280m.
- During the conceptual period about 1.0849ha area will be excavated upto 280m MSL (2m bgl) with 1 to 2 production benches with height of 2 to 6m in the end of conceptual period.
- Drilling will be carried out by compressed air fed wagon drills.
- During the SOM period, mine waste will not be generated, dumping will not be proposed
- Following drain are suggested for management of mine discharge and runoff:

Details of Proposed Garland Drain		
Garland drain no.	**Location of Garland drain**	**Size mL X mW X mD**
PGD_1	BP_1_1 to BP_1_3	400 X 0.5 X 1.0
PGD_2	BP-1_3 to BP-1_5	550 X 0.5 X 1.0
PGD_3	BP-1_5 to BP-1_7	250X 0.5 X 1.0
PGD_4	BP-1_7 to BP-1_10	580 X 0.5 X 1.0
PGD_5	BP-1_10 to BP-1_11	160X 0.5 X 1.0
PGD_6	BP-1_11 to BP-1_14	590X 0.5 X 1.0
PGD_7	BP-1_15 to BP-1_1	140 X 0.5 X 1.0

Details Of Proposed Settling Pit		
Indentified Drain with No.	**No. of Settling Pit**	**Size of Settling Pit (M) L X W X D**
PGD_1 & PGD_7	PSP_1	0.5x0.35x1.5
PGD_1	PSP_2	0.5x0.35x1.5
PGD_1	PSP_3	0.5x0.35x1.5
PGD_2	PSP_4	0.5x0.35x1.5
PGD_2	PSP_5	0.5x0.35x1.5
PGD_2 & PGD_3	PSP_6	0.5x0.35x1.5
PGD_4	PSP_7	0.5x0.35x1.5
PGD_4 & PGD_5	PSP_8	0.5x0.35x1.5
PGD_6 & PGD_7	PSP_9	0.5x0.35x1.5

Detail Of Proposed Settling Tanks & Water Availability			
Settling tank no.	Location	Size	Water availability
Settling tank no. 1	BP_13	2130M2 X 5.0mD	10650KL
Settling tank no. 2	BP_1_5	835M2 X 5.0mD	4170KL
Settling tank no. 3	BP_1_4	766M2 X 5.0mD	3830KL
Settling tank no. 4	BP_2_18	1695M2 X 5.0mD	8475KL
		Total	27125KL

Proposed Plantation Detail		
Description	**Qty**	**Location**
Trees		
Neem	1000	Along the lease Boundary in mine premises/road side
Ornamental Trees		
Amaltash (along with neem)	1000	Along the water pit/ in premises/ road side
Gulmohar	500	Along the water pit/in premises
Ficus Benjamina	800	Along the Water reservoir
Satparni	500	Along the lease Boundary/ in mine premises
Ashoka Tree	500	Along the water pit/ in mine premises
Karanj	200	Along the lease Boundary/ in mine premises
Raintree	200	In mine premises
Fruit bearing trees		
Mango	400	Along the lease Boundary/ road side
Jamun	400	Along the Water reservior
Medicianl Trees		
Drum Stick	300	In mine premises
Awla	100	In mine premises
	6800	

SOCIO ECONOMIC MEASURES

SN	**Plan**	**Activity**	**Place of activity**	**Budgetary provisions (Rs in lakh)**	
				Capital	**Recurring**
1.	Promotion of quality education	To provide teacher at village to promote child and adult	Rataitola, Mohanpura, Chikli, Soliya, Karondiya &	0.50	1.20 (@0.10 per month)

		education	Borghata (weakly)		
2	To provide need base infrastructure	At school of Ghursal, Borghata, Mohanpura	12 months	1.00	1.00
3	Free medical camp	Medical Checkup facility, first aid and other welfare activities for nearby villagers	Quarterly	-	0.50
4	Drip Irrigation facility at nearby villages	Motivation and financial assistance to the framers of nearby villages for drip irrigation	Yearly	1.00	1.00
5	To provide drinking water facility	Hand pump provide for drinking water at Rataitola, Mohanpura, Chikli, Soliya, Karondiya & Borghata (Two hand pump each village)	Yearly	2.00	1.00
6	To provide financial support to gram panchyat for need base facility		Yearly	-	1.00
7.	To provide playground at village Ghursal	Developed the play ground after providing land for gram Panchayat	Yearly	-	0.50
			Total	**4.50**	**6.20**

Total Cost (EMP + CSR+ plantation + Monitoring)		
Particular	**Amount (Lakh) per annum – Capital**	**Amount in Rs (Lakh) per annum – Recurring**
Dust Suppression through tanker over Transport Road 1500mt road * 6.0m (15Rs/km)	-	0.116 (750X15) Say 0.12

Approx running per day 3km(01 trip per day) @250 day = 750 km per annum		
Sub Total	-	**0.12**
Plantation (Capital cost) Along the transport Road	9.94	-
Maintenance of Plantation (Along the village Road & lease area) @ Rs 45/- per plant	-	1.35 Say 1.40 (Yearly average)
Plantation (Capital cost) within lease area	13.00	-
Sub Total	**22.94**	**1.35**
Roads repair and maintenance (1.50km & 6.0mW @2.0 lakh per Km)	-	3.00
Construction of WBM road (1.50km & 6.0mW @3.0 lakh per Km with 7.5m winding at junction of PWD road)	13.50	-
Sub Total	**13.50**	**3.00**
Occupational health and safety exp. with half yearly medical check-up of employee @20 workers	3.00	1.30
Sub Total	**3.00**	**1.30**
Environmental Monitoring cost	11.50	7.80
Sub Total	**11.50**	**7.80**
Construction of retaining wall @1338mL X 1.5mH X 0.25-0.50mW (150rRS per meter)	2.07	0.67@50Rs per meter
Sub total	**2.07**	**0.67**
Barbed fencing@1338m	4.01@300Rs running meter	0.67@50Rs running meter
Sub total	**4.01**	**0.67**
Total EMP cost	**53.01**	**14.91**
CSR cost	4.50	6.20
Water pond Deeping (PH issue)	3.00	0.50
Sub Total	**7.50**	**6.70**
Grand Total	**60.51**	**21.61**

After detail discussion , committee has aksed the PP to submit the following information :

1. Comittement for provision of over head sprinker arrangement and provision of solar pump for the same.

2. Rvised CSR budgte and Plantation details as suggested during presentation.

PP has submitted the response of above quarries vide letter dated 19.06.2018 which was placed before the committee and the same 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 mining lease in an area of 6.773 ha. (7600TPA) at , Khasra No. 160, 162, 167, 168, 169, 203 at Village - Ghursal , Tehsil - Gandhwani, Dist.- Dhar(MP), 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 activity 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. WBM road of 1700 mtr for carrying out the transporation shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

9. Control Blasting shall be carried out considering a nearby village.
10. Overcharging of the dril hole during shot firing should be avoided.
11. Minimum 60 meter safety barrier shall be left from water logged area or same should be dewatered and desilted before minimg operations.
12. Reatining wall along with drain shall be provided all around the down side of the hillock with atleast 1 mtrs height.
13. Over head water sprinkling system shall be provided to the transport vehicle which will carry the mined out material.
14. 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) to provide additional protection in one year only.

15. 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 6800no's of trees will be planted along and within the ML.
16. Transportation of material shall be done in covered vehicles.
17. Transportation of minerals shall not be carried out through forest area.
18. The OB as bassalt shall be eutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
19. Garland drains 400mL X 0.5mW X 1.0mD, 550mL X 0.5mW X 1.0mD, 250mL X 0.5mW X 1.0mD, 580mL X 0.5mW X 1.0mD, 160mL X 0.5mW X 1.0mD, 590mL X 0.5mW X 1.0mD, 140mL X 0.5mW X 1.0mD with 9 settling pits should be provided to avoid silt discharge. Four settling tanks (2130sqm X 5.0m D , 835Sqm X 5.0m D , 766SqmX 5.0m D & 1695SqmX 5.0mD) shall be connected with garland drains and settling pits shall be provided for proper sedimentation.
20. Water sprinkling through tankers should be provided on 1700 meter long and 7.5 meter wide wide transport road for dust suppression.
21. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
22. The existing and proposed land use plan of the mine is as follows:

Items	Existing	At the end of conceptual period
Total lease area	6.773 ha	
Mineable area	1.0849 ha (In block-A)	
Area under mineral store	Nil	Nil
Area under pits	Nil	1.0849 ha
Plantation	Nil	2.00 ha
Infrastructure & Road	Nil	0.20 ha
Un-worked area	6.773ha	3.4881ha
Total	6.773 ha	6.773 ha
Area to be reclaimed	Nil	Nil
Water body	Nil	0.50 ha
Plantation	Nil	2.00 ha (4000 no.)
Barrier zone plantation	-	2.00 ha (4000no.)

23. 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.
24. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
25. The commitments made in the public hearing are to be fulfilled by the PP.
26. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
27. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

28. The proposed EMP cost is Rs. 53.01 lacks and Rs. 14.91 lacks /year are proposed as capital and recurring expenses respectively out of which Rs. 22.94 lacks is proposed for green belt development inclusive of green belt along transport raod and Rs. 1.35 lacks /year for recurring expenses for plantation in the proposed EMP of this project.
29. Under CSR activity, Rs. 4.50 lacks and Rs. 6.20 lacks /year are proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
30. The adequate budget shall be provided for the PH issue i.e. deeping of water pond (Rs 3 Lacs and 0.50 as capital and recurring expenses respectively) .
31. 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.
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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
34. PP will comply with all the commitments made vide letter dated 20.06.2018
35. 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.

3. Case No. - 5632/2018 M/s Navin Fluorine International Limited, 2nd Floor, Suntech Centre, 37/40, Subhash Road, Vile Parle-E, Mumbai Prior Environment Clearance for Expansion of Production Capacity of Manufacturing Unit of Chemicals and Drugs Intermediates. Total Land Area: 37452.1 sq.m. Proposed area: 9254 sq.m. Production Capacity: 6272 MT/annum, Spent Acid- 7500 TPA, at Plot No. 1, 2-2A, Dewas Industrial Area, Tehsil & Dist. Dewas, MP. (EIA Consultant: M/s CES, Bhopal.).

This is case of Prior Environment Clearance for Expansion of Production Capacity of Manufacturing Unit of Chemicals and Drugs Intermediates. Total Land Area: 37452.1 sq.m. Proposed area: 9254 sq.m. Production Capacity: 6272 MT/annum, Spent Acid- 7500 TPA, at Plot No. 1, 2-2A, Dewas Industrial Area, Tehsil & Dist. Dewas, MP.

The case was presented by the PP and their consultant in the 307th SEAC meting dated 23/02/2018 wherein during presentation following details were provided:

Salient features of the project:			
S. no.	Particular		Details
1	Name of the project & its location	:	Capacity expansion in manufacturing Of Chemicals and Drugs Intermediates PLOT NO. 1 & 2-2A, NEW INDUSTRIAL AREA 02, AB ROAD DEWAS MADHYA PRADESH
2	Name of the Company, Address Tele No. & E-mail		M/S. Navin Fluorine International Limited, 2nd Floor, Suntech Centre, 37/40, Subhash Road, Vile Parle (East) Mumbai 400057
3	Latitude and Longitude of the project		Latitude 22.930850° N and Longitude 76.021048° E.
4	If a Joint venture, the names & addresses of the JV partners including their share		**NA**
5	Project brief: nature of proposal (new/expansion,) total area-land use, project components, connectivity to the site etc		Expansion, 47 Acres (1,85,030 Sq Meter) 6272 MT/Annum of chemicals and drug intermediate
6	Cost of the project		6.37 Crores
7	Whether the project is in the Critically Polluted Area (CPA):		NA
8	If the project is for EC under EIA Notification, 2006		
a)	For the first time appraisal by EAC		Yes for ToR
(i)	Date of ToR:		NA
(ii)	Date of Public Hearing, location		NA
(iii)	Major issues raised during PH and response of PP		NA

b)	Second appraisal		NA
(i)	Date of first /earlier appraisal		NA
(ii)	Details of the information sought by the EAC with the response of the PP.		NA
9	If the project involves diversion of forest land		NA
(i)	extend of the forest land		NA
(ii)	status of forest clearance		NA
10	If the project falls within 10 km of eco-sensitive area (i) Name of eco-sensitive area and distance from the project site, (ii) status of clearance from National Board for wild life		NA
11	Waste Management		
(i)	Water requirement, source, status of clearance		The total water requirement for the project will be approx. 485 KLD which will be sourced from Welspun. Total waste water generation will be 373 KL/day which will be treated in ETP. The capacity of existing ETP is 45 KL/day for cGMP-1 and cGMP-2 and balance 290 KLD shall be installed phase wise to treat additional effluent before commissioning of cGMP Plant-3, cGMP Plant-4 and cGMP Plant-5
(ii)	Waste water quantity, treatment capacity, detail		Multi Effective Evaporator, ATFD and stripper column with treatment capacity 15 KL/Day have been installed and will be expanded phase wise to treat additional 107 KL/Day for upcoming project. The treated water will be used for cooling towers, floor washing and gardening/green belt.
(iii)	Recycling / reuse of treated water and disposal		The treated water will be used for cooling towers, floor washing and gardening/green belt
(iv)	Solid Waste Management		Solid waste generated during the manufacturing process and wastewater treatment process is mainly sludge and will be disposed at authorized TSDF facility, as per Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2008 (Amendment 2016).
(v)	Hazardous Waste Management		HSD will used for the DG sets. The waste oil from DG set and machineries shall be stored in MS drums and shall be disposed of to authorized recyclers under direction of SPCB.
12	Other details		
(i)	Noise Modeling with noise control measures for airports		Details will be provided with EIA report.
(ii)	Details of water bodies, impact on drainage if ant		Details will be provided with EIA report.

(iii)	Details of tree cutting		Details will be provided with EIA report.
(iv)	Energy conservation measures with estimated saving		Details will be provided with EIA report.
(v)	Green belt development (20 % of construction projects and 33 % for others)		Existing: 19.33Acres (76,124 Sq Meter) with 5000 no. of plants. Proposed: 23.19 Acers with 7000 no of plants
(vi)	Parking requirement with provision made		Details given in EIA
13	If the project involves foreshore facilities		NA
(i)	Shoreline study		
(ii)	Dredging details, disposal of dredge material		
(iii)	Reclamation		
(iv)	Cargo handling with dust control measures		
(v)	Oil Spill Contingent Management Plan		
14	If the project involves Marine disposal		NA
(i)	NOC from PCB in case of marine disposal		
(ii)	details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9		Details given in EIA
(iii)	location of intake / outfall. Quantity,		
(iv)	detail of monitoring at outfall		
(v)	Any other relevant information		
15	Other information		
(i)	Investment/Cost of the project is Rs..... (in crore).		Existing : 95.44 Crore Proposed : 310 Crores
(ii)	Employment potential.....		As given in EIA
(iii)	Benefits of the project.....		Employment and CSR activities
16	Date of Ground water clearance		NA
17	Cost of proposed EMP and CSR (with detailed components & proposed activities) with capitol cost and recurring cost		Existing : 8 Crore Proposed : 24 Crores
18	Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions		Existing: 19.33Acres (76,124 Sq Meter) with 5000 no. of plants. Proposed: 23.19 Acers with 7000 no of plants
19	Any river/Nallah flowing near or adjacent to the proposed mine. If yes, please give details		Yes - Naggdhamman River – Adjacent

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

1. All the safety related aspects should be proposed in the EIA report.
2. A detail of emergency rescue plan is to be submitted in the EIA report.
3. Workers health survey report is to be submitted in the EIA report.

4. Site specific risk assessment study should be carried out and same should be submitted with EIA report with disaster management plan and residue details.
5. 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.
6. Worst case scenario with respect to Air, Water and hazardous waste should be discussed in the EIA report.
7. Detailed fire fighting arrangements proposed should be discussed in the EIA report.
8. 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.
9. Input and output of modeling data should be annexed with the EIA report.
10. Details of all construction and demolition waste material related to this expansion project should be submitted with the EIA report.
11. As per the site Google image, the old ETP is near to a natural drain (Naghdhavan Nallah) for which PP submitted that they have closed this treatment facility. The complete details of closure and existing condition of this ETP and natural drain shall be discussed in the EIA report with ground water survey of the area.
12. Cost benefit analysis should be carried out and discussed in the EIA report.
13. 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.
14. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
15. 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.
16. 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.
17. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
18. Pre-dominant wind direction to be ascertained and accordingly the Safety & Environment Management Plans prepared and reported.
19. Details of Environmental Cell & CSR committee.
20. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006.
21. The EIA document shall be printed on both sides, as far as possible.
22. All documents should be properly indexed, page numbered.
23. Period/date of data collection should be clearly indicated.

24. The letter /application for EC should quote the SEIAA file No. and also attach a copy of the letter prescribing the TOR.
25. 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.
26. Grant of TOR does not mean grant of EC.
27. 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.
28. 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.
29. 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.

PP has submitted EIA vide letter no. NFIL/EHS/MPPCB/EC/140 dated 03/05/18 which was forwarded through SEIAA vides letter no. 375 dated 11/05/2018, which was placed before the committee.During presentation PP and his consultant presented the salient features of the project, EIA, baseline data and the proposed EMP before the committee.

Land break Up:

Title	**Existing Area (M2)**	**Proposed Area (M2)**	**Total Area after expansion(M2)**
cGMP-1	1208	0	1208
cGMP-2	1200	0	1200
cGMP-3	0	3000	3000
cGMP-4	0	3250	3250
cGMP-5	0	3250	3250
Warehouse – 1	185	0	185

Warehouse – 2	326	400	726
Warehouse – 3	0	110	110
Admin & PD Lab	487	750	1237
Utility -1 (Boiler, MCC Room, Chill water)	932	0	932
Utility-2	420	0	420
Utility-3	0	800	800
Utility-4	0	400	400

Proposed Air Pollution Control Measures:

Technical Details Of Stacks (Existing)				
Stack Attached to	Stack Height in m	Fuel Used	Fuel consumption rate	APC measure
Boilers (FO)- (850 kg/hr (2nos) and 600 kg/hr and Thermo pack- 30000 (2nos) Kcal/hr and 2 Lakh Kcal/hr (1no.)	32	Diesel	15 L/hr	Bag Filter
Boilers (PNG/FO) – (2.0 Ton/hr) -	32	FO/PNG	132 M3/hr	Bag Filter
DG Set -650 KVA	10	Diesel	65 L/hr	Bag Filter
DG Set -750 KVA	10	Diesel	70 L/hr	Bag Filter
Scrubber (5 nos.)	16	NA	NA	Stack
Incinerator	32	FO/Diesel	15-20 L/hr	Stack with Venturi and Wet scrubber
Technical Details of Proposed stacks				
Stack Attached to	Stack Height in m	Fuel Used	Fuel consumption rate	APC measure
Boilers (PNG/FO) – (2.0 Ton/hr – (3 nos.)	32	FO/PNG	132 M3/hr	Bag Filter
Thermo pack- 2 lakh Kcal/hr- (2 nos.)	32	Diesel	40 L/hr	Bag Filter
DG Set -750 KVA (2 nos.)	10	Diesel	70 L/hr	Bag Filter

Scrubber (20 nos.)	16	NA	NA	Stack

- Particulate matters & other gaseous emission are envisaged as pollutant from boiler and other sources apart from other sources of fugitive emission .Depending on quality of emission from different sources, suitable air pollution control system will be provided.
- Wet Scrubbing System
- The scrubbing system consists of:
  - Alkali scrubber : Secondary scrubbing
  - Droplet separator : for gas – liquid separation
  - Demister pad : for moisture removal
- Recirculation tanks and pumps are used for circulating the scrubber solution. Parameters like SO2, HCl and suspended particulate matters that are generated in the process are reduced to acceptable level in the flue gas scrubbing system. At this stage, acidic polluting gases are absorbed and transferred from gases into neutralized liquid according to the following chemical reaction:
- HCl + NaOH -> NaCl + H2O
- SO2 +½ O2 + 2 NaOH -> Na2SO4 + H2O
- Chimney: The off gases after cleaning will be discharged into the atmosphere through a 5 stacks of 32 meter height of boiler, 4 stacks of 32 meters height of thermopack, 1 stack of 32 meter height of incinerator, 4 stack of 10 meter height of DG Set and 25 stack of 16 meter height of scrubber. The Boiler stack will have sampling point at 15 m. elevation, manhole, drain point, ladder and platform up to the sampling nozzle and lightning arrestor with conductor strip. The top edge, of 300 mm height, will be of SS-316 to avoid edge corrosion. The chimney is of self-supporting type broadly conforming to IS 6533 standards
- Fan: Induced draught fan of reputed make will be supplied along with the system. It will be of centrifugal type and will be complete with motor, pulleys, V-belts, etc. The impeller and shaft of the I.D. fan will be of SS-316 material. The I.D. Fan is meant to ensure a negative pressure throughout the working system. VFD is provided to vary the speed of fan since the load variation can be taken care.

Solid / Hazardous Waste Management:

Following will be solid waste management practice to be adopted by unit:

Existing and Proposed -Hazardous Waste Generation & disposal						
#	**Type of Hazardous Waste**	**Category**	**Qty in MT/Annum**			**Remark**
			Existing	**Additi**	**Total**	

				onal		
1	Tar Waste	1.2	0.2	0	0	Existing no generation of Tar Waste.
2	Used oil	5.1	0.8	29.2	30	Send to authorized recycler.
3	ETP sludge	35.3	300	389.37	689.37	Send to TSDF Site.
3	MEE Solid reject	35.3	Nil	1980	1980	Send to TSDF Site.
4	Spent Carbon	28.3	2	43	45	Send to TSDF Site.
5	Incinerated Ash	37.2	5	90	95	Send to TSDF Site.
6	Distillation Residue	20.3	60	521	581	Send to common incinerator.
7	Empty barrels/ containers/ liners	33.1	1.2	61.8	63	Send to authorise recycler.
8	Process Waste	28.1	0	597	597	Send to TSDF Site.
9	Spent Solvent	28.6	300	5527	5827	Send to authorise recycler.
10	Off Specific Products	28.4	0	200	200	Send to common incinerator.
11	Filter Medium / Filter Bags	36.2	0	63	63	Send to common incinerator.
12	Spent Catalyst	28.2	0	5	5	Send to authorise recycler.
13	Cotton Waste	33.2	0	10	10	Send to common incinerator.
14	e-Waste		0	10	10	Send to authorize recycler.

Planning And Budget For Environment Management:

Environmental Monitoring Cost(Amount is INR)			
Segment	Activity	Plan	Budget allocation per Annum

			(Approx)
Air Environment	Monitoring of Environmental parameters of AAQM	Quarterly	0.96 Lac. @ Rs 6000 per sample (Total 16 sample)
	Monitoring of stack emission	Continuous On line system	1 Lac (Approx)
Water Environment	Monitoring of ground water	(Pre and post Mansoon)	1 Lac @ Rs 10,000 per sample (For5+5 sample in a year)
	Monitoring of Surface water courses	(Pre and post Mansoon)	0.40 Lacs @ Rs. 10,000 per sample (For 4 sample in a year)
	Treated water from Treatment plant	Monthly	1.20 Lacs @ Rs 5,000 per sample (For 12 from existing ETP+12 sample from proposed ETP in a year)
Noise Environment	Monitoring of noise prone location	Quarterly	0.64 Lacs @ Rs 2,000 per sample (For 32 samples in year)
Soil Environment	Monitoring of soil quality villages around plant site	Yearly	0.60 Lacs @ Rs 10,000 per sample (For 06 sample in a year)
Health surveillance Programme	Regular Health check up of employees	Yearly	18 Lacs @ Rs 9000/- per head (For 200 number)
Ground water table monitoring	Within and surrounding villages	Pre and post monsoon	0.12 Lacs @ Rs 2,000 (Total 6 samples)
Misc.	-	-	2 Lacs
	Total (A)		25.92 Lacs
Green Belt development		4 lacs for 2 years	4 Lacs Recurring Cost
* Fund for CSR Activities	-	310 Lacs (1% of total project cost 310 Crs. for brown field project)	310 Lacs @ 62 Lacs (as per Proposed Plan – slide 68)
	Total (B)	-	66 Lacs
	Total (A+B)	-	91.92 Lacs

Proposed CSR Action Plan Ensuring Socioeconomic Benefits(Amount in INR)					
Sr.No.	**Need Identified for CSR Activity**	**Activity**	**Budgetary Provisions**	**Budgetary Provisions**	**Recurring Cost / Annual**

				yearly	
1	Community Health Services	Visiting near by villages, providing OPD services through qualified staff and distribution of Medicines	80 Lac	16 Lac	**2 Lacs**
2	Education of Poor Children	Provisions for Books, Bag and other utility items for Tribe's children, motivating for be part of education (Pravesh Mahotsav)	15 Lac	3 Lac	
3	Swach Bharat Abhiyan	Building toilets to the beneficiary who are not able to afford the same. Creating Awareness for Hygiene and Healthy practices	50 Lac	10 Lac	**5 Lacs**
4	Supporting the cause of Health Care Services to Ruler India – focusing the Central India	Supporting the initiatives taken by Shri Sadguru Seva Sangh Trust,– serving in the various activities of Social Development, Community Health and Eye Care	50 Lac	10 Lac	
5	Running the Eye care Activities	Organizing the free check-up camps, providing necessary aids to identified patients in such camps and free of cost distribution of prescribed medicines by qualified practitioner.	25 Lac	5 Lac	
6	Water Resources to nearby society	Creating sources for clean drinking water (RO, cleaning systems), supporting to resource conservation / enhancement initiatives	50 Lac	10 Lac	**2 Lacs**
7	Donations to the identified CSR Initiatives / NGOs	Supporting different institutions working on various Short Term Social Causes – based on the programmed agenda	30 Lac	6 Lac	
8	Others	Miscellaneous Provisions	10 Lac	2 Lac	
Total Amount			310 Lacs	62 Lacs	**9 Lacs**

Total Cost (EMP + CSR+ Plantation + Monitoring)(Amount in INR)			
S.No.	Particular	Amount - Capital	Amount – Recurring / Per Annum
1A	Plantation (Capital cost)	3.56 Lacs @ Rs 178 for 2000 plants	-

1B	Maintenance of Plantation (within Plant site)	-	3.15 Lacs @ Rs 45 /- per plant for 7000 plants
	Sub Total	4 Lacs	4 Lacs
2	CSR cost	310 Lacs	62 + 9 Lacs
	Sub Total	310 Lacs	62 + 9 Lacs
3	Occupational health and safety exp.	27.50 Lacs	18 Lacs
	Sub Total	27.50 Lacs	18 Lacs
4	Environmental Monitoring cost	3,200 Lacs	7.92 Lacs
	Sub Total	3,200 Lacs	8 Lacs
	Grand Total	3,541.5 Lacs	101 Lacs (This cost does not includes the O&M cost of Air Pollution Control system, ETP, MEE, Incinerator, Rain water Harvesting)

After detail discussion, committee has aksed the PP to submit the revised plantation species as suggested during presentation.

PP has submitted the response of above quarries vide letter dated 19/06/2018 which was placed before the committee and the same 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 Exapnsion of Production Capacity of Manufacturing Unit of Chemicals and Drugs Intermediates. Total Land Area: 37452.1 sq.m. Proposed area: 9254 sq.m. Production Capacity: 6272 MT/annum and Spent Acid- 7500 TPA, at Plot No. 1, 2-2A, Dewas Industrial Area, Tehsil & Dist. Dewas, MP as follows:

Sr. No	**Product**	**Production Capacity MTPA**
1	Benzene trifluorides	250
2	Cycloalkanes	200
3	Pyrazole & Pyrimidines	300
4	Aromatic, aliphatic sulfonyl chlorides & sulphonamides	200
5	Fluoro alkanes & aromatics	280
6	Halo Pyridines	250

7	Aliphatic, alicyclic & aromatic nitriles	250
8	Furans, pyranes	100
9	Aziridines, azirines, azetidines, azetes, diazetines, diazete	120
10	Pyrrolidines, pyrroles, pyrazolidines, & imidazolines	150
11	Aromatic and Fused Aromatics	120
12	Acitamidines	140
13	Indoles, thiozoles & oxazoles.	130
14	Aldehyde & hemiacetal	220
15	Aliphatic, aromatic amines and their salts	160
16	Alcohols, aldeyhdes, acids & ketones	230
17	Boronic acids & boronate esters	120
18	Quinolines	180
19	Alkanes, alkenes, alkynes	250
20	Amines, enamines and theire salts	240
21	Cycloalkenes, cycloalkynes	280
22	Thiazoles, isothiazoles, thiazoles & Thio-oxazoles	260
23	Substituted Imidazolines	120
24	Trioxanes, dioxolanes	450
25	Substituted morpholines	120
26	Sulphur Tetrafluoride	282
27	Xtalfluor	350
28	Aromatic & aliphatic Oximes	140
29	Diazoles, triazoles	120
30	Thiazolidines	120
31	Piperazines	140
32	Spent Acid	7500TPA

(A) PRE-CONSTRUCTION PHASE

1. During demolition of old blocks, Construction and demolition rule 2016 shall be complied in its sprit and content.
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.

(B) CONSTRUCTION PHASE

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. Waste material may also be used for construction of internal roads.
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 2000 number of trees in addition to the existing plantation of 5000 number will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
11. MSW of various labours generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
12. 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.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

13. Total water requirement for the project (existing & expansion) shall not exceed 485 KLD.

14. Total waste water generation shall not exceed from 373 KL/day. The existing ETP 45 KL/day for cGMP-1 and cGMP-2 shall be maintained and operated properly to meet out the given norms of MPPCB.
15. 38 KLD high COD high TDS wastewater shall be sent to MEE. Remaining 335 KLD out of 373 KLD will be treated in ETP. Blow downs from cooling towers, boiler, scrubber, Softener regeneration, Vacuum pump approx 229 KL will go to ETP.
16. The treated water will be used for cooling towers, floor washing and gardening/green belt. No industrial effluent from the unit shall be discharged outside the plant premises and Zero discharge shall be maintained.
17. PP should also install Internet Protocol PTZ camera with night vision facility along with minimum 05X zoom and data connectivity must be provided to the MPPCB's server for remote operations.
18. A drain along the boundary wall shall be made, which will be connected proposed settling tank/water reservoir to protect the flow of contaminant towards nearby river Nagdhmman
19. The device best suitable for the project site will be installed for monitoring/detecting the concentration of toxic fumes/VOC in the work zone on continuous basis. Regular monitoring of VOC, concentration in work zone shall be carried out
20. Height of proposed stacks will be as per statutory requirement. All the stacks will have Stack Monitoring Facility (SMF) consisting of sampling port-hole, platform and access ladder.
21. Bag Filters and venturi scrubber shall be installed for proposed boilers and scrubbers
22. No additional incinerator shall be installed without intimation to SEIAA/SEAC/MPPCB.
23. Online continuous monitoring system shall be provided for stack of boiler.
24. Ambient air quality shall be regularly monitored to ensure that ambient air quality shall be met the limit at all the time.
25. Regular monitoring of the stack emission of existing and proposed scrubber shall be carried out.
26. Additional greenbelt shall be developed around the plant to arrest the fugitive emission. Total green area of 24.19 acres shall be developed ass per given land scap plan.
27. Alkaline Scrubber shall be provided at reactor's vent to control process SO2 emission.
28. Fly ash generated 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.
29. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
30. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
31. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.

32. 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.
33. 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.
34. 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.
35. 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.
36. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
37. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
38. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
39. The expansion project should also be monitored through SCADA system for effective monitoring and data should be recorded for the compliance purpose.
40. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
41. 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 etc.
42. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
43. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
44. Ultrasonic/Magnetic flow/Digital meters shall be provided at all water abstraction points and records for the same shall be maintained regularly.
45. 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

46. The proposed EMP cost is Rs. 35.415 Crorers and Rs. 360 lacs /year (inclusive of the O&M cost of Air Pollution Control system, ETP, MEE, Incinerator, Rain water

Harvesting) are proposed as recurring expenses out of which Rs. 3.56 lacs is proposed for additional green belt development and Rs. 3.15 lacs /year for recurring expenses for plantation in the proposed EMP of this project.

47. Under CSR activity, Rs. 310 lacs are proposed for the next 05 years in different activities and should be implemented through respective committees.
48. 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.
49. 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.
50. 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.
51. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
52. 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. - 5568/2017 M/s Amba Shakti Udyog Ltd, Plot No. 44 & 47, AB Road, Industrial Area Banmore, Dist. Morena, (M.P.) – 476444 Prior Environment Clearance for Capacity Expansion from 1,50,000 TPA of TMT Bar 2,00,000 TPA of Billets 50,000 TPA of Steel structure to Billets: 3,60,000 TPA, TMT Bars : 3,00,000 TPA, Steel Structure : 60,000 TPA at Plot No. 44 & 47, AB Road, Industrial Area Banmore, Distt. - Morena, (M.P.) Existing Area: 60,704 sq.m., After Expansion:82,751.16 sq.m., Cat. 3 (a) Metallurgical Industries (ferrous & non ferrous). EIA Consultant: CES, Bhopal.**

This is a rolling mill project. All non –toxic secondary metallurgical processing industries manufacturing >5000 tones/annum metal components are covered under the EIA Notification 2006 as amended 2009 and are mentioned at SN 3(a), B. Hence these projects are required to obtain prior EC before establishment.

Salient features of the project

S. No.	Particulars	Details
1	Project	To Obtain Terms of Reference for Capacity Expansion in

<table>
<tr><td></td><td></td><td>Production of MS Billets, MS/TMT Steel bars</td></tr>
<tr><td>2</td><td>Existing Capacity</td><td>Billets = 2,00,000 TPA
TMT Bars = 150000 TPA
Steel Structure = 50,000 TPA</td></tr>
<tr><td>3</td><td>Proposed Capacity</td><td>Billets = 3,60,000 TPA
TMT Bars = 3,00,000 TPA
Steel Structure = 60,000 TPA</td></tr>
<tr><td>4</td><td>Total Power requirement</td><td>25 + 8 = 33 MW</td></tr>
<tr><td>5</td><td>Total Land available</td><td>60704 sq.mt. + 22047.16 sq.mt = 82751.16 sq.mt</td></tr>
<tr><td>6</td><td>Raw material required after Expansion</td><td>
<table>
<tr><th>Name</th><th>Existing quantity TPA</th><th>Proposed Quantity TPA</th><th>Total</th></tr>
<tr><td colspan="4">For Induction Furnace</td></tr>
<tr><td>Pig iron</td><td>22000</td><td>15500</td><td>37500</td></tr>
<tr><td>Scrap</td><td>87000</td><td>103000</td><td>190000</td></tr>
<tr><td>Sponge Iron</td><td>108700</td><td>59300</td><td>168000</td></tr>
<tr><td colspan="4">For Billet Caster (CCM)</td></tr>
<tr><td>Hot Metal from IF</td><td>2,00,000</td><td>160000</td><td>360000</td></tr>
<tr><td colspan="4">For Rolling Mill</td></tr>
<tr><td>TMT Bar</td><td>150000</td><td>150000</td><td>3,00,000</td></tr>
<tr><td>Structure (Angle and Channel)</td><td>50000</td><td>10000</td><td>60000</td></tr>
</table>
</td></tr>
<tr><td>7</td><td>Source of Power</td><td>MP Electricity Board</td></tr>
<tr><td>8</td><td>Water Requirement</td><td>Existing – 500 Proposed - 100 Total = 600 KLD</td></tr>
<tr><td>9</td><td>Source of Raw water</td><td>AKVN Supply</td></tr>
<tr><td>10</td><td>Major Equipments</td><td>Induction Furnace
Existing -2 Proposed -1 Furnace Rolling Mill-1
& CCM, TMT Rod Rolling Mill, etc</td></tr>
<tr><td>12</td><td>Number and Height of Stack</td><td>At Induction furnace , Height 30 Mt</td></tr>
</table>

13	Pollution control equipment	Spark arrestor (2+1=3 No.), Bag Filter (2+2= 4No.), ID fan (2+2 =4No) Chimney (1+1 =2 No.)
14	Level of particulate Matter after APC	Less than 50 mg /NM^3
15	Cost of Pollution Control Equipments	Rs.135.75 + 60 = 195.75 Lacs
16	Number of employment generation	300 +60 =360 persons
17	DG Set	Existing 500 KVA Proposed-1
18	Fuel proposed to be used	Electricity
19	Slag Crusher Unit	50 TPD (Iron recovery from slag)
20	RO Plant	10 KLD
21	Fund for CSR activities	As per Guideline
22	Previous Env. Clearance	3500/SEIAA/2015/14/07/2015

- No ecologically protected area or archeologically protected site or other environmental sensitivity has been reported within 10 km radius of the site. Industry has obtained NOC in this regard from DFO
- No interstate boundary is lying within 10 km radius from the site.

Land break Up:

PARTICULARS	**Existing Area (In Sq. Mt.)**	**After Expansion(In Sq.Mt.)**
Build Up Area	26724	28750
Road Development	10900	10900
Water Storage Area	800	1056
Fuel Storage Area	50	50
Green Belt	16600	21813.38
Lawn & Greens	3560	5660
Open Land	2070	14521.78
Total Area	**60704**	**82751.16**

Environmental Setting of Project

S. No.	Particulars	Details
1	Latitude	26°21'47.15' - 26°21'59.55' N
2	Longitude	78°05'0.69'' - 78°05'17.97'E
3	Height above mean sea level	188-182m
4	Nearest Town	Banmore - 0.5 Km - SSE
5	Nearest Railway Station	Banmore – 1.5km - SE
6	Nearest Airport	Gwalior - 16 km
7	Nearest Highway/Road	NH-3 - Adjoining - E
8	Hills/Valley	None
9	Ecological Sensitive Zone	None
10	Reserve Forest	Sanicharara RF - 4.0km - NE Bamur Basai RF - 3.0km - W Kulaith RF - 6.0km - SW
11	Historical Place	None
12	Nearest River/ Nalla	Sank Nadi - 0.25km - W Sonrekha River - 3.50km - ENE Auruwa Nalla - 1.0km - E Khiraoli Reservoir - 4.40km - NE
13	Surrounding Features	North : Prabhu Stone & Open Land South : Vectus & Open Land East : NH-3 West : Open Land

Raw material requirement

Raw Material	Existing (TPA)	Proposed (TPA)	Source	Mode of Transportation
Induction Furnace.				
Pig Iron	22000	37500	Chattishgarh, Orissa	By Road
Scrap	87000	190000	Domestic +	By Road

			Import	
Sponge	108700	168000	Domestic	By Road
Billet Caster (CCM)				
Hot metal produced from induction furnace division	200000	360000	In House	-
Rolling Mill				
TMT bar	150000	300000	In-house + Market	
structure (Angle & channel)	50000	60000	In house + Market	By Road
Outsource purchase of billets shall be about 3% (approx.)				

The case was presented by the PP and their consultant in the 293rd SEAC meting dated 17/06/2017, wherein consultant submitted that it's a case of expansion where one additional rolling mill and one additional induction furnace will be installed. The plant is in operation since 2015 and the base line data collection has been started by them. After presentation, committee decided to recommend standard TOR prescribed by MoEF&CC with following additional TOR:

1. Existing sponge iron and scrap storage area with provisions for expansions should be discussed in EIA report with layout map.
2. Detailed traffic movement study and traffic management plan should be discussed in the EIA report.
3. Oil and Grease trap should be proposed in the ETP and details of proposed and existing ETP be provided in the EIA report.
4. COC of cooling tower be discussed in the EIA report.

PP has submitted EIA vide letter dated 11/05/18 which was forwarded through SEIAA vides letter no.759 dated 22/05/2018. which was placed before the committee.During presentation PP and his consultant presented the salient features of the project, EIA, baseline data and the proposed EMP before the committee:

PROPOSED GREEN BELT PLAN		
Year	**Area (sq mt)**	**Number of Plants**
Existing	1200	191
1st Year	3000	450

2nd Year	3000	450
3rd Year	5000	750
4th Year	4400	660
Total	**16600**	**2501**
Lawn area	3560	-
Total	**20160**	**2501**

Socio Economic Environment:

Suggested CSR Activities and Community Development Plan (PROPOSED BUDGET FOR CSR			
Need Identified	Activities	Budgetary Provision (Rs. In lacs)	Provision on yearly basis (Rs. In lacs)
Skill Development Programmes for youths	Facilitating self-employment skill generation vocational training programmes for creating better self employment ventures through inducing skill among the youths as per the requirements of the distillery unit. A Apprentice type training in association with ITI.	24	2.40 4 person per year @ Rs 5000/- per month
Ensuring Safe drinking water and healthy Sanitation Practices	For ensuring this Awareness generation campaign, wall writing, village level theme camps. Construction of toilets to stop open defecation at Pawaya, Sitapur, Sewa, Banmore, Bhepura, Khathane ka pura. Phulpura	20	Toilets at two villages every year with supporting like water tanks etc (Rs 1.0 lacs) Drinking water facility in terms of bore well, water cooler, etc , for two villages every year ; (Rs 1.0)
Rainwater harvesting in the villages	Rain water harvesting in the villages Pawaya, Sitapur, Sewa, Banmore, Bhepura, Khathane ka	15	Provision of water harvesting structure in terms, roof water of

	pura. Phulpura.		community building, ponds , stop and check dams etc ; Rs 1.50 lacs per year)
Agriculture improvement camps. drip irrigation amongst Farmers , aid to the farmers	Facilitate youths & farmers of selected villages both on on-farm and off-farm activities based on need, interest and market potential. It will create better employment opportunities for the community. Promotion of advanced agriculture practices and water efficient farming practices.	20	Rs 2.0 lacs per year per villages
Infrastructure development at School	Infrastructure facilities at schools of nearby villages Pawaya, Sitapur, Sewa, Banmore, Bhepura, Khathane ka pura. Phulpura in terms of provision of computers, teachers, facility of safe drinking water, separate toilets for girls and boys etc.	15	Rs. 1.50 Lac per year
Medical camps	Provision of Ambulance and conducting yearly medical health check up camps with free distribution of medicines in villages every year	10	Rs 1.0 Lac per year
Need base assistance to villages/ individual basis	In consideration and with recommendation of gram panchayat	6	Rs 0.60 Lac per Year Not limited to figure
Total		110 Lacs	11 Lacs per year

Existing & Proposed Expenditure for Environment Protection Program			
S.N.	**Particulars**	**Capital Cost (existing) (In Lacs)**	**Additional Capital Cost (Proposed) (In Lacs)**
1	Air Pollution Control includes Bag	108.00	50.0

	Filters, etc		
2	Water Pollution Control STP, Storm water drain	10.00	-
3	Noise Pollution Control	3.00	-
-	Occupational Health	10.50	0.30
6	Green Belt	13.75	-
Total		**145.25**	**50.30 @ 50.50**

Environmental Monitoring Cost			
Segment	Plan	Action Plan	Budget allocation per Annum (Approx)
Air Environment	Monitoring of Environmental parameters of AAQM	Monthly	Rs. 2,40,000/- @ 5000 per sample for 48 sample
	Monitoring of stack emission	Monthly 3 no of stacks	Rs. Rs. 2,52,000/- Rs 7000/- per sample for 36 samples (Approx)
Water Environment	Monitoring of ground water	(Pre and post Mansoon)	Rs. 80,000/ @ 10,000 per sample for 08 sample
	Monitoring of Surface water courses (River)	(Pre and post Mansoon)	Rs. 40,000/ @ 10000 per sample for 4 sample
	Monitoring of Nalla	Monthly	Rs. 60,000/- (Rs 5000/- per sample for 12 samples)
Noise Environment	Monitoring of noise prone location	Quarterly	Rs 60,000/-
Soil Environment	Monitoring of soil quality villages around plant site	Yearly	Rs. 40,000/ @ 10,000 per sample For 04 sample in a year
Ground water table monitoring	Within and surrounding villages (total 6 samples)	Pre and post monsoon	Rs 12,000 /- per annum
Misc.	-	-	Rs. 2,00,000/-

		Sub Total (A)	Rs 9,84,000/-
OHS aspects	Provision of ear plugs and ear muffs, helmets shoes for workers	-	Rs 18,00,000/- (Rs 5000/- per head for 360 number)
		Sub Total (B)	RS 18,00,000/-
Green Belt development programme		Existing plant =191 Proposed further 2500 no Rs.13.72 lacs for nex 4 years as capital cost	Total recurring cost will be Rs 1.2 Lacs @ Rs 1.50 Lacs per annum /-
		Sub Total (C)	RS 1,22,000/-
Fund for CSR Activities	-	-	For brown field project 1% of project cost Rs 109 Crores @ 1.10 Crore = Rs 10 Lacs per annum period of 5 years
		Sub Total (D)	**RS 11,00,000/-**
		Total (A+B+C+D)	**Rs 40,06,000**

	Total Cost (EMP + CSR+ Plantation + Monitoring)		
Sn	**Particular**	**Amount (Rs in Lacs) Capital**	**Amount (Rs in Lacs) per annum – Recurring**
1	Dust Suppression within plant area	-	0.54 @1.0
	Sub Total		**@1.0**
2B	Maintenance of Plantation (Along the Plant site) @ Rs 45/- per plant	-	1.22
2c	Plantation (Capital cost) within Plant area	13.75	-
	Sub Total	**13.75`**	**@ 1.25**
4	CSR cost	110	11
	Sub Total	**55**	**11**
5	Occupational health and safety exp.	5.0	11.0
	Sub Total	**5.0**	**11.0**
6	Environmental Monitoring cost	2125	5.82
	Sub Total	**2125**	**5.82**

	Total	**2417.97**	**30.07 @31**

The EIA/EMP and other submissions made by the PP found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC for Prior Environment Clearance for Capacity Expansion at Plot No. 44 & 47, AB Road, Industrial Area Banmore, Distt. - Morena, (M.P.) Existing Area: 60,704 sq.m., After Expansion:82,751.16 sq.m., Cat. 3 (a) Metallurgical Industries (ferrous & non ferrous) as follows:

Sr. No	Name of product	Existing Products & Capacity	Proposed Expansions & capacity
1	Billets	2,00,000 TPA	3,60,000 TPA
2	TMT Bars	1,50,000 TPA	3,00,000 TPA
3	Steel Struicture	50,000 TPA	60,000 TPA

(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. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
6. Fire extinguishers should be provided on site during construction/ plant erection period.
7. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.

8. 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.
9. 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 2300 no's of trees will be planted in addition to existing 191 number of plants. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
10. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
11. 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.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

12. Total water requirement for the existing and proposed project shall not exceed 600 KLD.
13. The waste water from existing and proposed activity shall be treated in STP of 50 KLD.
14. The TDS level of softner reject shall be checked regularly and if found high shall be used for quenching purposes, otherwise wastewater shall be treated in neutralization tank and shall be taken to STP plant proposed for treatment of domestic effluent
15. No industrial 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 and data connectivity must be provided to the MPPCB's server for remote operations.
16. To control the particulate emission from the existing induction furnace (2 no.) and additional induction furnace , fume extraction system followed by bag filter meeting 50 mg/Nm3 shall be installed.
17. Road swepping machiene should be provided by the PP to control fugitive emissions.
18. A drain along the boundary wall shall be made , and get connected settling tank to protect the flow of contaminant towards nearby land
19. Regular monitoring and analysis of upstream and downstream of River Sank wrt to industry shall be carried out.
20. Water harvesting structures shall be constructed for harvesting of water and details shall be submitted along with compliance report.
21. To control the fugitive emission of the furnace area, secondary control system shall be installed. Reverse pulse jet cleaning bag filters should be provided as APCD with 2nd stage fume extraction system on the top of the shed.

22. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.
23. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
24. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
25. 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 etc.
26. Dedicated parking facility for unloading of materials/wastes/products shall be provided in the facility premises. PP shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the High way.
27. The ambient air quality shall be monitored in and around the industry and results shall be submitted to the MPPCB. The locations for the ambient air quality monitoring shall be fixed and reviewed in consultation with the MPPCB.
28. Once in a year, health survey of the employees shall be be carryout.
29. The overall noise level in and around the facility area and D.G. Set shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
30. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
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. 24.1097 crore and Rs. 20 lacks /year are proposed as recurring expenses out of which Rs. 13.75 lacks is proposed for green belt development and Rs. 1.25 lacks /year for recurring expenses for plantation in the proposed EMP of this project.
33. Under CSR activity, Rs. 55 lacks are proposed for the next 05 years in different activities and should be implemented through respective committees.
34. 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.

35. 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.
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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
38. 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. - 5660/2018 Mr. Manoj Jain (Plant Head) M/s SRF Limited , Indore Sopecial Economic Zone, Phase –I Sec-III, Village Pithampur Tehsil- Pithampur, District- Dhar M.P 454775 Prior Environment Clearance for proposed increase in production of Polyester Resin through debottlenecking & optimization from 80,000 to 1,00,000 of Plant parameters at Indore Specila Economic Zone, Phase-I Sec-III, Plot no. C-1 to C-21 to 30, D-13 to 18, D-25 to 32, and 41, 41 A, 42, 43, & 54, 55, & 56 Village Pithampur Tehsil- Pithampur, District- Dhar M.P Cat. 5(f) Synthetic Organic Chemicals Industry (Dyes & Dye Intermediates). (EIA Consultant: M/s CES, Bhopal.)..

The project is covered under the provisions of EIA Notification as item no. 5(f) Synthetic Organic Chemicals Industry (Polyester Resin), The unit is engaged in manufacturing of Polyester film, Polyester Resin, Metallized Film, Holographic Film and hence it requires prior EC before commencement of activity at site.

PP and their consultant presented the case for ToR before the SEAC in this meeting. The submissions and the presentation made by the PP and his consultant revealed following:

Salient Features of the Project:

Project Proponent	M/s SRF Limited
Project Name	Proposed increase in production of Polyester Resin through debottlenecking & optimization of plant parameters
Production capacity	80,000 TPA to 1,00,000 TPA of Polyester Resin

Estimated Project Cost	Existing : 509 Crore Proposed : Remain same
EMP Cost	Existing : 14.26 Crore Proposed : Remain same
Land	Existing : 16.9 Acres (68592 Sq Meter) Proposed : Remain same
Total Water Consumption	Existing 630.5 KLD Proposed :621.5 KLD (Inclusive of Existing)
Source of Water Supply	Through AKVN
Waste Water Generation	Existing : 169.5 KLD Proposed : Remain same
Treatment Facility	Existing : 130 KLD Proposed : Remain same
Source of power supply	Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company
Power Requirement	Existing : 10000 KVA (existing) Proposed : Remain same
Fuel Options	Fuel: FO & Gas base TFH DG Set 2 X 1010 KVA , 5 X 1670 KVA,1 X 1500 KVA
Green Belt	Existing: 5.58 Acres (76,124 Sq Meter) with 5196 no. of plants. Proposed – Remain same
employment generation	Existing 663 Proposed : R emain same
Fund for CSR activities	Existing : 75 Lacs Proposed : Rs. Remain same

EXISTING & PROPOSED PRODUCTION CAPACITIES				
Sr. No	**Name of product**	**EC Granted for following capacity**	**Additional capacity**	**Total proposed Capacity**
1	Polyester film	64,123 MTPA	No change	64,123 MTPA
2	Polyester Resin	80,000 MPTA	20,000MTPA	1,00,000 MTPA
3	Metallized film	12,000 MTPA	No change	12,000 MTPA
4	Holographic Film	1,200 MTPA	No change	1,200 MTPA
5	Solid fuel heater (pet coke & coal based)	8 million Kcal/hr	No change	Solid fuel heater (pet coke & coal based)
6	Offline coating machine	3,600 TPA	No change	Offline coating machine

During discussion PP informed that they wants to expand the capacity of Polyester Resin from 80,000 MTPA to 1,00,000 MTPA with minor changes in the cycle time and no new machinery is proposed to be installed. PP further submitted that they have recently obtained the EC and till date have not obtained the CTE & CTO from MPPCB. After presentation committee

decided to issue standard TOR prescribed by the MoEF&CC for carrying out EIA study with following additional TOR's:-

1. PP should explore the possibility of reducing water demand and measures should be discussed in the EIA report.
2. Submit the certificate of competent authority verifying the distance of protected area/Eco-sensitive zone.
3. During monitoring activities, appropriate photographs with date should be taken by and submitted along with the EIA Report.
4. Concerned Regional Officer, MP Pollution Control Board must be informed about the monitoring locations and monitoring should be carried out under intimation to him.
5. It should be a "Zero Discharge Unit", thus proposed measures should be discussed in the EIA report.
6. Detailed green belt plan with area, name of species and their number should be provided in EIA report.
7. Any area marked for further expansion in this proposed unit should be detailed out on a layout map and submitted with EIA report.
8. TDS concentration should be studied "stream by stream", and same should be discussed in the EIA report.
9. Public hearing should be conducted as per the provisions laid down in the EIA Notification, 2006.
10. 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.
11. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
12. 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.
13. 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.
14. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
15. The EIA document shall be printed on both sides, as far as possible.
16. All documents should be properly indexed, page numbered.
17. Period/date of data collection should be clearly indicated.

18. The letter /application for EC should quote the SEIAA file No. and also attach a copy of the letter prescribing the TOR.
19. 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.
20. 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.
21. Grant of TOR does not mean grant of EC.
22. 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.
23. 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.
24. 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.

PP has submitted EIA vide letter dated 17/05/18 which was forwarded through SEIAA vide letter no. 757 dated 22/05/2018, which was placed before the committee.During presentation PP and his consultant presented the salient features of the project, EIA, baseline data and the proposed EMP before the committee.

EXISTING & PROPOSED RAW MATERIAL REQUIREMENT				
Sr. No.	Raw Material	Existing Raw Material	Proposed Addition Raw Material	Annual Requirement After Expansion
1	Polyester resin			
	PTA	68800 TPA	17200 TPA	86000 TPA
	MEG	27200 TPA	6800 TPA	34000 TPA
2	Polyester Film			
	Polyester Chips	62680 TPA	Remain same	Remain same
3	Metallized film			
	Aluminum wire	281 TPA	Remain same	Remain same

4	Holography film			
	Ethyl Acetate	4194 Ltrs/Annum	Remain same	Remain same
	HL-01, HL-03 (coating chemical for Holography)	596 Kg/Annum	Remain same	Remain same

Land break Up:

Areas	Length(Meters)	Width (Meters)	Area in sq mt
Line 1 + Line 2	243	54	13122
Ut. Block + Mechcanteen + Panel room	78.5	15	1177.5
Toilet L-1	9	6	54
Toilet L-2	12	6	72
Thermic Fluid House	35	26	910
Cooling Tower Area	20	25	500
ETP	64	25	1600
ESS	36	18	648
Transformers	24	6	144
DG area	20	20	400
MPEB power sub station	6.5	6.5	42.25
PTA storage	28.5	24.5	698.25
Resin Area	40	20	800
Resin Oil Drain tank	10	4	40
MEG storage	21	26	546
Tank farm area	23.5	22.6	531.1
Pump Area	13	4.5	58.5
Filter room and silos area	20	17	340
Cot/Panel/Mech and E and I	43	18	774
PTA storage + Rand D +Erema + Panel room area	54.5	18	981
Erema L-1	14	15	210
Erema Silos Area	10	6	60
Panel Room	12	15	180
Raw material + Silos area	45	19	855
M-2, Machine area	48	15.5	744

Waste area + Tertiary Slitter	18	6	108
Pallet area	42	6	252
FG, Extra area	15.5	30	465
Unloading Point L-2	42	12	504
Unloading Point L-1	25	6	150
Areas	Length (Meters)	Width (Meters)	Area (Sq. m)
Weigh Bridge	17	4	68
Sec/Visitor/Dvr RM/IT store Gate-2	13	7.3	94.9
Toilets	7	4	28
Sec/DMAT/Despansary Gate -1	9.5	7.5	71.25
Gas Skid	15	10.5	157.5
Fire and Raw water Tank-1	30	11	330
Fire and Raw water Tank-2	12	5	60
Holography Machine area	19	25	475
Holography Chemical storage area	24	6	144
M-1, Machine Area	25	25	625
Corridor in between L-1 and Utility block	110	5	550
Cooling Tower	19.5	32	624
Shoe change Room+ Shed+ HE area	30	6	180
Shoe change Room L-2	18	6	108
Store + Coal yard and conveyor, etc.	90	30	2700
Switch yard	45	20	900
wood cutting machine	6	6	36
Ash Silo	8	8	64
TF Heater	36	25	900
Mech and End I Office/Store	12	12	144
Security Gate West Direction	4	4	16
Security Gate East Direction	4	4	16
Scrap Yard	25	20	500
Total covered area	1652	775.9	35758.25
Total land available land			
Existing	158	384	60672
Solid Fuel Thermopack Heater, Coal Yard & PTA Yard	99	80	7920

Total Area			68592
		% coverage	Area (Sq.m.)
Total Occupied Land %		58.93698906	35758.25
Total Occupied Land % additional		32.44949495	2570

Proposed method of debottlenecking:

- It is possible to run the present CP plant of SRF at higher capacities somewhere between 235 to 250 tpd.
- HTM battery level limits to be as per Aquafil Engg specifications.
- Column reflux heat exchanger to be cleaned. Feed EG to Column Sump valve to be changed by pass valve to be closed.
- Polymer discharge pump maximum frequency to be changed to 60 Hz.
- Polymer filter to be changed to 40 micron trial to be taken or one Film line to be connected to direct line.
- Cutter to be run at maximum speed till film line is converted to direct line Chips per gm will be on higher side.
- The HTM battery limits to be maintained as specified by Aquafil Engg. This will definitely help in further surge of capacities.

Solid / Hazardous Waste Management

The solid wastes generation from the plant is envisaged from process i.e. polyester waste during the manufacturing of film. No increase is expected as proposal is for increase in capacity in resin section. It will be sent to recycling unit and reused again. The waste from the recycling unit will be used widely for making polyester yarn, toys and molding process for making various items, so the polyester waste will be sold to the manufacturing of yarn and toys etc.

Solid Waste Generation (TPA) - Existing and Proposed			
Sr. No	**Source**	**Total Quantity**	**Mitigation**
1	From Process	16315 (MT/year)	16196.4 MT/year is recycle and reutilize 118.6 MT/Year is sold to re-processer registered with CPCB
2	Disposed	NIL	-
3	From Pollution Control Facility	NIL	-
4	Ash	27.84 (TPD)	Will be sent to Bricks manufacturing or cement manufacturing industry.

Hazardous Waste Generation - Existing and Proposed			
Sr. No	Source	Total Quantity(kg)	Mitigation
	From Process		
1	Used Oil	5628	Sale to authorised reprocessor registered with CPCB
2	Used TEG	25213	MP Waste Management Project, Pithampur, Dhar/ Sale to authorised reprocessor registered with CPCB
3	Chemical Sludge	227	MP Waste Management Project, Pithampur, Dhar
4	Process Waste	4863	MP Waste Management Project, Pithampur, Dhar
B	From Pollution Control Faciliites	Nil	Nil

Plantation Details:

Existing and Proposed Green Belt Plan		
Year	**Area (Acers)**	**Number of Plants**
Existing	**5.88**	**5196**
1st Year	**1.93 (7800 sq mt)**	**1000**
2nd Year	**1.93 (7800 sq mt)**	**1000**
Total Green belt area	**9.74**	**7196**
Total Area	**16.9 acres**	

PROPOSED CSR ACTIVITY WITH BUDGETARY PROVISION					
S. no	**Need Identified For CSR Plan**	**Activities**	**Budgetary Provision for 5 years (Rs. s)**	**Budgetary Provision on yearly basis (Rs. s)**	**Recurring p In Rs in Lacs**
1	Skill Development Programmes	Facilitating self-employmer skill generation vocational training programmes	60 100 person per year @	12.0	**-**

	for youths as per the requirement of the Unit	for creating better self employment ventures through inducing skill among the youths as per the requirements of the distillery unit. A prentice type training in association with ITI.	Rs 5000/- per month		
2	Ensuring Safe drinking water and healthy Sanitation Practices	For ensuring this Awareness generation campaign, wall writing, village level theme camps. Construction of toilets to stop open defecation at Tigriya Chhota, Anwatpura, Nagda , Godaisha Pipalya, Mendki ,Balgarh (Balaji Nagar) Provision of supply of drinking water or payment of bills of water supply of villages.	Eight Toilets at two villages every year with supporting like water tanks etc (Rs 24) Drinking water facility in terms of bore well, water cooler, etc , for two villages every year (Rs 6.0)	6.0	**0.50**
3	Rainwater harvesti he villages	Rain water harvesting in the villages Tigriya Chhota, Anwatpura, Nagda ,Godaisha Pipalya,Mendki,Balgarh (Balaji Nagar)	Provision of water harvesting structure in terms, roof water nmunity building, ponds , stop and check dams etc	3.0	**1.0**

			Rs 15.0 lacs)		
4	Agriculture improvement camps.Promotion of drip irrigation amongst Farmers, aid to the farmers.	Facilitate youths & farmers of selected villages both on on-farm and off-farm activities based on need, interest and market potential. It will create better employment opportunities the community. Promotion of advanced agriculture practices and water efficient farming practices.	Rs 15 lacs rounding villag	3.0	**-**
5	Provision of solar lights in the villages	Solar light, Solar lamps, Solar cooker , solar pumps for farmers at common property of surrounding villages at Mandiouda, Methwada, Khera, Sagor, Khandwa, Betma, Silotiya, Bagoda, Tigriya Chhota etc enable to reduce the dependency on the Govt electric supply	Rs 15 lacs	3.0	**1.0**
7	Infrastructure development at School	Infrastructure facilities at schools of nearby villages in terms of provision of computers, teachers, facility of safe drinking water, separate toilets for girls and boys etc., fans, repairing of walls, scholarship for poor as well as socially	Rs. 35 Lac	7.0	**1.0**

		backward children on 8th onwards and other amenities,			
8	Medical camps	Provision of Ambulance and conducting yearly medical health check up camps with free distribution of medicines in villages every year	Rs 15 Lac	3.0	-
9	Need base assistance to villages/ individual basis	In consideration and with recommendation of gram panchayat	Rs 65 Lac	13	-
	Total		**250 Lacs**	**50 Lacs per year**	**3.50 per year**

Capital And Avg. Yearly Recurring Expenditure on EMP			
SN	**Activities**	**Cost (Lacs/annum)**	
		Recurring	Non-Recurring
1	ETP	50	25
2.	Air pollution control including ESP/ Engineering construction like drains & Rain water Harvesting	10	25
3	Environmental monitoring and management	5	-
4	Solid and hazardous waste management	15	5
5	Occupational Health	25	10
6	Green belt and land scaping	6	2
		111	67

	Total Budgetary Provision for (EMP + CSR+ Plantation + Monitoring)		
S.No.	Particular	Amount (Rs in Lacs) Capital	Amount (Rs in Lacs) per annum – Recurring
1A	Plantation (Capital cost for proposed plantation)	3.56 @ 4.0	-

1B	Maintenance of Plantation (within Plant site) @ Rs 45/- per plant	-	3.15 @ 4.0
	Sub Total	4	4
2	CSR cost	250	50+3.50=53.50
	Sub Total	250	50+3.50=53.50
3	Occupational health and safety exp.	33.50	18
	Sub Total	33.50	18
4	Environmental Monitoring cost	1400.26	39.62 @ 40
	Sub Total	**1401**	**40**
	Grand Total	**1688.50**	**115.50 (This cost does not includes the O&M cost of Air Pollution Control system, ETP, Green, Rain water Harvesting which is about on avg as 60 Lacs)**

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 Prior Environment Clearance for proposed increase in production of Polyester Resin through debottlenecking & optimization from 80,000 to 1,00,000 MTPA at Indore Special Economic Zone, Phase-I Sec-III, Plot no. C-1 to C-21 to 30, D-13 to 18, D-25 to 32, and 41, 41 A, 42, 43, & 54, 55, & 56 Village Pithampur Tehsil- Pithampur, District- Dhar M.P.

(A) PRE-CONSTRUCTION PHASE

1. During any construction/plant erection activity (if required for debottlenecking project) 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. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
6. Fire extinguishers should be provided on site during construction/ plant erection period.
7. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
8. 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.
9. 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 2000 no's of trees in addition to existing 5196 number of plants will be planted. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
10. MSW of various labours generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
11. 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.

(C) POST CONSTRUCTION/OPERATIONAL PHASE

12. Total water requirement for the project (existing & expansion) shall not exceed 589.5 KLD.
13. The waste water should be treated in existing ETP of 130 KLD and domestic effluent should be treated in common STP of MP AKVN, Pithampur, Dhar.
14. No industrial 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 and data connectivity must be provided to the MPPCB's server for remote operations.
15. To control the particulate emission from the boiler, ESP meeting 50 mg/Nm3 shall be installed to take care emission from existing and proposed expansion activity. .
16. Adequate dust extraction system (minimum 02 Nos.) should be provided on coal/pet coke handling plant, crusher and bunkers to control fugitive emissions.
17. Fly ash generated 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.
18. Hazardous wastes should be disposed off as per the authorization issued by MP Pollution Control Board.

19. Flammable, ignitable, reactive and non-compatible wastes should be stored separately and never should be stored in the same storage shed.
20. Automatic smoke, heat detection system should be provided in the sheds. Adequate fire fighting systems should be provided for the storage area.
21. 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.
22. 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.
23. 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.
24. 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.
25. Recent MSDS of all the chemicals used in the plant be displayed at appropriate places.
26. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
27. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
28. The expansion project should also be monitored through SCADA system for effective monitoring and data should be recorded for the compliance purpose.
29. Dedicated power supply shall be ensured for uninterrupted operations of treatment systems.
30. 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 etc.
31. All the storage tanks of raw materials/products shall be fitted with appropriate controls to avoid any spillage / leakage. Bund/dyke walls of suitable height shall be provided to the storage tanks. Closed handling system of chemicals shall be provided.
32. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
33. Ultrasonic/Magnetic flow/Digital meters shall be provided at all water abstraction points and records for the same shall be maintained regularly.

34. 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

35. The proposed EMP cost is Rs. 14.385 Crore as capital and Rs. 2.99 Crore/year are proposed as recurring expenses out of which Rs 4 lacs is proposed for green belt development and Rs. 4 lacs /year for recurring expenses for plantation in the proposed EMP of this project.
36. Under CSR activity, Rs. 250 lacks are proposed for the next 05 years in different activities and should be implemented through respective committees.
37. 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.
38. 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.
39. 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.
40. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
41. 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. **Case No. – 5681/2018 M/s D.P.Rai Nanhaka, 10 East High Court Road, Ramdeshpeth, Nagpur (Mah) Prior Environment Clearance for Expansion of Opencast and Underground Manganese Ore Mine with physical benefication in an area of 24.288 Ha. (Capacity Expansion from 1300 TPA to 1,05,987 TPA) (Khasra no. 113, 114/1 to 114/5, 115/1 to 115/6, 116, 117/1, 117/2, 118/1, 118/2, 119, 130/1 to 130/3, 131/1, 131/6, 132/1 to 132/5, 133/1 to 133/5, 134/1 to 134/9, 135/1 to 135/3, 247/3) at Village- Miragpur, Khairlanji, Tehsil - Lanji, Dist. Balaghat (MP) (Consultant: M/s CES, Bhopal.).**

This is case of Manganese Ore Mine with physical benefication. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 113,

114/1 to 114/5, 115/1 to 115/6, 116, 117/1, 117/2, 118/1, 118/2, 119, 130/1 to 130/3, 131/1, 131/6, 132/1 to 132/5, 133/1 to 133/5, 134/1 to 134/9, 135/1 to 135/3, 247/3) at Village-Miragpur, Khairlanji, Tehsil - Lanji, Dist. Balaghat (MP) 24.288 Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 557 dated 16/5/2018.During presentation PP has submitted following information:

Environment setting

Particulars	**Details**
Locations	Miragpur , Khairlanji, Balagha, MP
General ground level	362m – 360m AMSL
Nearest National/state Highway	Bithali – Garrachouki Road -0.60km - N
Nearest Railway Station	Tirodi Railway Station – 12.50Km
Nearest Airport	Nagpur - 120 km
Nearest Tourist Place within 10km radius.	None
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Mohanghat RF - 2.25km – ESE Kapurwihiri RF – 1.25km - SW Garra South RF - 3.75km - W Garra North RF - 5.0km - WNW Chandpur North RF – 8.0km - S
Nearest Town / City within 10km radius	None
Nearest Village	Miragpur - 0.20km - NE
Nearest River/ Nalla	Bhwanthari River - 6.00 km -SW Biloni River - 5.00km - W Miragpur Pond - 0.06km – E Village pond - 0.90km – N Gudrughat pond – 1.25km – NE Jaitpura Pond – 0.90km - E Pandarwani Pond – 2.15km - SSE Nahlesra Main Canal – 2.50km - N
Nearest Hill Ranges	None within 10km radius
Other lease area within 10km radius	No. of mines
Industry within 10km radius	None within 10km radius

Sailent feature of the lease area

Particulars	Details
Type of Mine	Opencast & Underground OTFM
Mining Lease Area	24.288 ha
Mineable Area	2.6792 ha (for opencast only)
Area under existing Pits	0.4180ha
Area under existing dump	Nil
Area under Infrastructure	Nil
Area under road	0.20ha
Area under mineral stack	Nil
Ultimate Pit Slope	60^0
Plantation	0.10ha
Recoverable Reserve	784336.00 T
Ultimate Depth of Mining	330mAMSL (30m bgl-Opencast) 281m AMSL (79m bgl-Underground)
Existing capacity	1300 TPA
Proposed capacity	105987 TPA
Expected Life of Mines	10 Years
Lease Period	50 years upto 2056
Thickness of soil	3-4 mt
Proposed mode to transportation of mineral	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	2.6792 ha
Area to be reclaimed by conceptual period end	0.50ha
Area to be converted as water body	2.0 ha
Area to be covered under plantation by conceptual period	8.10 ha
AMSL	362-360m
Ground water table	
Post and Pre Monsoon AMSL	10 m -15m bgl (350-345m)
Production per Day (T) (300day)	353T
Dumper per day (24T)	15No.

During presentation it was observed that It being a case of major minerals committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs and as per Annexure-D :-

1. During monitoring activities, appropriate photographs with date should be taken by and submitted along with the EIA Report.
2. Top soil management plan be discussed in the EIA report.
3. Ground water recharge study of the nearby area be carried out by the PP and same should be discussed in the EIA report.

4. Inventory of operating / proposed mines within 2 Km around the said mine should be provided in the EIA report.
5. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
6. Any alternate route avoiding the nearby habitations (if any).
7. Land use plan should be plotted on the map.
8. Inventory of existing trees of the lease and if any tree falling proposed with its compensatory plan is to be submitted.
9. 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.
10. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
11. 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.
12. 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.

7. **Case No. – 5682/2018 M/s D.P.Rai Nanhaka, 10 East High Court Road, Ramdeshpeth, Nagpur (Mah) Prior Environment Clearance for Manganese Ore Mine in an area of 4.339 Ha. (120 TPA) (Khasra no. 135/3, 245 (part), 136) at Village- Miragpur, Khairlanji, Tehsil - Lanji, Dist. Balaghat (MP) (Consultant: M/s CES, Bhopal.).**

This is case of Manganese Ore Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at (Khasra no. 135/3, 245 (part), 136) at Village-Miragpur, Khairlanji, Tehsil - Lanji, Dist. Balaghat (MP) 4.339 Ha Ha. The project requires prior EC before commencement of any activity at site. PP has submitted ToR application forwarded by the SEIAA vide letter no. 559 dated 16/5/2018. During presentation PP has submitted following information:

Environment setting

Particulars	**Details**
Locations	Miragpur , Khairlanji, Balagha, MP
General ground level	361m – 360m AMSL
Nearest National/state	Bithali – Garrachouki Road -0.50km

Highway	- N
Nearest Railway Station	Tirodi Railway Station – 12.50Km
Nearest Airport	Nagpur - 120 km
Nearest Tourist Place within 10km radius.	None
Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Mohanghat RF - 2.25km – ESE Kapurwihiri RF – 2.00km - SW Garra South RF - 4.25km - W Garra North RF - 5.50km - WNW Chandpur North RF – 8.25km - S
Nearest Town / City within 10km radius	None
Nearest Village	Miragpur - 0.03km - N
Nearest River/ Nalla	Bhwanthari River - 6.50 km -SW Biloni River - 5.50km - W Miragpur Pond - 0.09km – S Village pond - 0.80km – N Gudrughat pond – 1.10km – NE Jaitpura Pond – 0.90km - E Pandarwani Pond – 2.50km - SSE Nahlesra Main Canal – 2.50km - N

Nearest Hill Ranges	None within 10km radius
Other lease area within 10km radius	No. of mines
Industry within 10km radius	None within 10km radius

Sailent feature of the lease area

Particulars	**Details**
Type of Mine	Opencast
Mining Lease Area	4.339 ha
Mineable Area	0.25 ha
Area under existing Pits	Nil
Area under existing dump	Nil
Area under Infrastructure	Nil
Area under road	Nil
Area under mineral stack	Nil
Ultimate Pit Slope	60^0
Plantation	Nil
Recoverable Reserve	750.00 T
Ultimate Depth of Mining	358mAMSL (3m bgl)
Proposed capacity	120 TPA
Expected Life of Mines	6 Years
Lease Period	50 years
Thickness of soil	1.5 mt
Proposed mode to transportation of mineral	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	0.25 ha
Area to be reclaimed by conceptual period end	0.25ha
Area to be converted as water body	Nil
Area to be covered under plantation by conceptual period	1.50 ha
AMSL	361-360m
Ground water table	
Post and Pre Monsoon AMSL	10 m -15m bgl (350-345m)

During presentation it was observed that It being a case of major minerals committee recommended to issue standard TOR prescribed by MoEF&CC with following additional TORs and as per Annexure-D :-

1. During monitoring activities, appropriate photographs with date should be taken by and submitted along with the EIA Report.
2. Top soil management plan be discussed in the EIA report.
3. Ground water recharge study of the nearby area be carried out by the PP and same should be discussed in the EIA report.
4. Inventory of operating / proposed mines within 2 Km around the said mine should be provided in the EIA report.
5. Inventory of existing tress on lease and details if any tree falling is proposed.
6. Evacuation Plan on a map to be provided with transport route, required infrastructure and man-power.
7. Any alternate route avoiding the nearby habitations (if any).
8. Land use plan should be plotted on the map.
9. 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.
10. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
11. 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.
12. 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.

8. **Case No. - 5687/2018 Chief Executive Officer, Jabalpur Development Authority, 7A, Circle Center, Marahacal, Jabalpur, (M.P.) – 482002. Prior Environment Clearance for Proposed Residential cum Commercial Scheme No. - 65 at Village - Basha, Kachnari, Mohania and Garha, Jabalpur (M.P.) Plot Area – 951621.33 sqm. Area under College & Railway Boundary – 40,000 Sqm., Net Plot Area – 911621.33 sqm., Total No. of Plotted Housing Plots/DU's – 2166, Total No. of Group Housing DU'S- 2318. Cat. - 8(b) Township and Area Development Projects. Reference No. for online tracking of project Details SIA/MP/NCP/22247/2017. Env. Con. – Ind. Tech House Consult, Delhi.**

This is case of Prior Environment Clearance for Proposed Residential cum Commercial Scheme No. - 65 at Village - Basha, Kachnari, Mohania and Garha, Jabalpur (M.P.) Plot Area

– 951621 sqm. Area under College & Railway Boundary – 40,000 Sqm., Net Plot Area – 911621.33 sqm., Total No. of Plotted Housing Plots/Du's – 2166, Total No. of Group Housing DU'S - 2318. Cat. - 8(b) Township and Area Development Projects.

The case was presented by the PP and their consultant and during presentation following details were provided:

EXECUTIVE SUMMARY

1. **Name of the Project & its location:**This is plotted development project, Proposed Residential cum Commercial Scheme No. 65 at Village Basha, Kachnari, Mohania & Garha of Jabalpur Development Authority, Jabalpur, M.P is being developed by Jabalpur Development Authority having registered address 7A, Circle Center, Marhatal, Jabalpur.

2. Name of the Company, Address Tele No. & E-mail:

Jabalpur Development Authority
7-A, Marhatal, Civic Center, Jabalpur,
Madhya Pradesh - 482 001.
Tele. No: 076124 04590.
E-mail: ceojda@gmail.com

3. Latitude & Longitude of the project: The latitude and longitude of the project of plot boundary follows:

S.NO.	Latitude	Longitude
A	23°10'44.89"N	79°53'30.28"E
B	23°10'51.88"N	79°53'28.37"E
C	23°10'57.51"N	79°53'29.37"E
D	23°10'58.21"N	79°53'25.45"E
E	23°10'53.44"N	79°53'19.14"E
F	23°10'54.25"N	79°53'11.28"E
G	23°11'6.23"N	79°53'6.47"E
H	23°11'7.30"N	79°52'48.28"E
I	23°10'48.03"N	79°52'42.92"E
J	23°10'45.68"N	79°52'44.82"E

K	23°10'31.68"N	79°53'20.89"E

4. If a Joint venture, the names & addresses of the JV partners including their share.

NA

5. Project brief: Nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.

This is plotted development project, Proposed Residential cum Commercial Scheme No. 65 at Village Basha, Kachnari, Mohania & Garha of Jabalpur Development Authority, Jabalpur, M.P for all sections of society including Economic Weaker Section (EWS) & Low Income Group (LIG). The group housing project (EWS & LIG) will be developed seperately and seperately EC will be sought. Total plot area of the proposed development is 9,51,621.33 Sqm. area. Area under College & Railway boundary() to be deducted is 40,000 Sqm. Net plot area available is 9,11,621.33 Sqm.

The site is proposed to be connected to NH-7: 1.37 KM (West) and SH-37A: 1.70 KM (North).

6. Cost of the project:

The total cost of the project is 69 Crores.

7. Whether the project is in Critically Polluted area. NA

8. If the project is for EC under EIA Notification, 2006

a) For the first time appraisal by EAC
(i) Date of ToR: Standard TOR for the project was granted by MoEF&CC vide letter no. 21-245/2017-IA-III dated 7th Sep 2017.
(ii) Date of Public Hearing, location: NA
(iii) Major issues raised during PH and response of PP: NA

b) Second appraisal
(i) Date of first /earlier appraisal : NA
(ii) Details of the information sought by the EAC with the response of the PP: NA

9. If the project involves diversion of forest land

(i) Extend of the forest land: NA
(ii) Status of forest clearance: NA

10. If the project falls within 10 km of eco- sensitive area

(i) Name of eco- sensitive area and distance from the project site: Not with in 10 KM

(ii) status of clearance from National Board for wild life: NA

11. Waste Management

(i) Water requirement, source, status of clearance: Total water demand of the project is 1,928 KLD out of which the fresh water demand will be 1,018 KLD and sourced by Nagar Palika Nigam, Jabalpur. Treated water will be met through on site STP.

(ii) Waste water quantity, treatment capacity, detail: Total waste water generated from the project is 1,389 KLD, which will be treated on site STP (SBR design) having capacity of 1,700 KLD. Group Housing plots will have their own STP, Waste collection/ Treatment system.

(iii) Recycling / reuse of treated water and disposal: 910 KLD recycled waster water will be used for flushing and green belt development and rest 201 KLD treated water will be discharged into public sewer.

(iv) Solid Waste Management: 4.99 TPD solid waste will be generated from the proposed project and will be disposed through Nagar Nigam Jabalpur.

(v) Hazardous Waste Management: 0.12 l/day hazardous waste will be generated from the DG operation and will be disposed through authorized vendor.

12. Other details

(i) Noise Modeling with noise control measures for airports: NA

(ii) Details of water bodies, impact on drainage if any: NA

(iii) Details of tree cutting: Involved (Tree cutting survey not done)

(iv) Energy conservation measures with estimated saving: Solar energy will be used for Street and parks lighting.

(v) Green belt development (20 % of construction projects and 33 % for others): As this is plotted development project, 10.52% of entire plot area will be considered for green belt area development as per the norms.

(vi) Parking requirement with provision made:

13. If the project involves foreshore facilities

(i) Shoreline study: NA

(ii) Dredging details, disposal of dredge material: NA

(iii) Reclamation: NA

(iv) Cargo handling with dust control measures: NA

(v) Oil Spill Contingent Management Plan: NA

14. If the project involves Marine disposal

(i) NOC from PCB in case of marine disposal: NA

(ii) details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9: NA

(iii) location of intake / outfall. Quantity: NA

(iv) detail of monitoring at outfall: NA

(v) Any other relevant information: NA

15. Other information

(i) Investment/Cost of the project is Rs. 69 (in crore).

(ii) Employment potential: About 100 labours will be employed during the construction of the project.

(iii) Benefits of the project:

- Improvement in the social infrastructure;
- Improvement in the physical infrastructure;
- Employment potential - skilled; semiskilled;
- Other tangible benefits unskilled.

16. Date of Ground water clearance: NA

17. Cost of proposed EMP and CSR (with detailed components & proposed activities) with capital cost and recurring cost:

EMP cost of the project during operation phase are following.

S. No.	Component	Capital Cost in Lacs	Recurring Cost in Lacs
1	STP 1700 KLD	120 L	20 L
2	RWH 130 Pits	260 L	13 L
3	Horticulture, Tree/ Shrubs/ Lawn 23.5 Acres	56.4 L	15 L
Total		**4.36 Cr.**	**48 L**

18. Numbers of plantation with name of species proposed & area allocated for plantation with budgetary provisions:

Landscape plan is still under process

19. Any river/ Nallha flowing near or adjacent to the proposed mine. If yes, please give details:

Storm water drain of municipal corporation is adjacent to the proposed project.

The case was presented by the PP and their consultant wherein during presentation PP was unable to provide clear details regarding which part of the scheme is covered under the EC and areas which are not part of this application. After presentation, PP was asked to submit information on following and also to again represent the case for consideration of EC as per the TOR issued by MoEF&CC :

1. Clear justification with all details the parts covered under the EC applicabilioty on layout map with area details.
2. Details of proposed suface drainage with contoor pattern of the site to address the issues of surface runoff.
3. Inventory of trees existing on the sie and details if any tree falling is porposed.
4. Details of proposed ETP's with their locations on layout map and various componenets and sizes.
5. How dual plumbing will be carriedout as it's a plotted development.
6. A commitment that no construction is initiated on site till date.

9. **Case No.-5285/2016 M.P. State Mining Corporation Ltd Paryawa Bhawan, Block No. 1, 2nd FloorJail Road, Bhopal. Prior Environment Clearance for Bauxite Mine in an area of 4.90 ha. (50,000 TPA) at Khasra No. 3852 & 3853 at Village-Tikar, Tehsil - Huzur, Dist. Rewa (MP) (EIA CONSULTANT: M/s Creative Enviro Services, Bhopal).***)***

This is case of Tikar Bauxite Mine. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at Khasra No. 3852 & 3853 at Village-Tikar, Tehsil - Huzur, Dist. Rewa (MP) 4.90 Ha. The project requires prior EC before commencement of any activity at site.

Environment setting

Particulars	**Details**
Locations	
Village	Tikar
Tehsil	Huzoor
District	Rewa
State	MP
Nearest National/state Highway	Govindgarh – Rewa MDR Road - 4.50 km - NW
Nearest Railway Station	Rewa - 23.75km - NW
Nearest Airport	Churhata Rewa - 23.25km - NW
Nearest Tourist Place	None in 10 km radius
Archaeological Important Place	None in 10 km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None in 10 km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Govindgarh Reserved Forest
Nearest major city with 100000 population	None within 10km radius
Nearest village	Bilhilihatola - 3.80km - N
Nearest Town	Rewa - 20km - N

Physiography	Hilly
Elevation	647-621m AMSL
Slope	Radial
Nearest River	Son River -9.50 km - SE Bichya nadi -7.15 km - N Banas River - 10.0km - SE
Nearest nalla/ pond/canal	Phapho nala - 5km -S Kataha nala - 4.30km- S Pakariar Nala - 4.15km –N Marhawal Nalla - 5.80km – SSE Canal - 1.50km - S
Nearest hill/valley	Jaliadhar Pahar

Salient feature of the lease area

Particulars	**Details**
Type of Mine	Open Cast
Mining Lease Area	4.90ha
Existing Pits & Quarries	3.55 ha
Existing mineral stack	0.68 ha
Infrastructure and road	0.10ha
Plantation	0.15 ha
Total geological Reserve	1545660mt
Total Minable Reserve	865252 mt
Method of mining	OTFM
Ultimate Depth of Mining	612mRL
Expected Life of Mines	20 years
Stripping Ratio	1:0.15
Existing mode to transportation	Road
Area to be covered under dumps in conceptual period	Nil
Area covered under pit in conceptual period	4.50 ha
Area to be reclaimed till conceptual period	4.50ha
Area to be rehabilitated by afforestation in conceptual period	4.90ha
Area to be covered under water reservoir	Nil
Ground water table	
Monsoon period	60m (561 m AMSL)
Dry month	70 m (551 m AMSL)
Production per day (MT) (275 working day)	182
Truck per day (24 MT)	8
Requirement of metal	Aluminum plants and Cement plants

Supply location	All over India

GEOLOGY OF THE MINE

Geology and deposit appraisal	
Local geology	Bauxite like other high level deposits, occurs in the laterite profile as lenses and as irregular segregations in the blanket of laterite at high altitude. Bauxite has also been encountered at lower level, which may be secondary i.e. either detrital or removed to lower levels by breaking-off of scarp known's as "Scrap retreat" and has been included in the float deposit. The enrichment of alumina at places has given rise to good quality massive Bauxite, the thickness of which exclusively established upto 18m and is in lenticular form.
Lithology	**0.0 to 0.50m** - Lateritic Soil **0.0 to 0.50m** - Pilolitic Laterite/ Upper Laterite 12.0 to 18.0m – Upper Aluminous Laterite Bauxite Lower aluminous laterite
Borehole	20m depth
Lease area	4.90ha
Mineable area	4.50ha
Mineral depth	9m bgl (upto 612m AMSL)
AMSL	Max. – 647m and min. - 621m
Height of bench and no of bench	Existing – 1 & 3m and 5 no. Proposed – 1& 6m and 5 no.
Width of bench	Min. 6m
Width of haulage road	10m
Gradient	1:16

Post land use plan

Items	Existing	At the end of conceptual period
Total lease area	**4.90 ha**	
Mineable area	4.50 ha	
Ultimate depth of mining	7mbgl (614m AMSL)	9m bgl (612 m AMSL)
Ultimate pit slope	Nil	45^{o}
Area under mineral store	0.68 ha	Nil
Area under pits	3.55 ha	4.50ha

Area to be reclaimed	Nil	4.50 ha
Infrastructure & Road	0.10 ha	Nil
Plantation	0.15ha	4.90ha
Water body	0.50 ha	Nil

PP has submitted a copy of approved Mining Plan, letter from Mining Officer certifying the leases within 500 meters radius around the site and requisite information in the prescribed format duly verified by the Tehsildar and DFO. Concerned Mining Officer vide letter no.-1157 dated: 18/05/16, has reported that there is no more mine operating or proposed within 500 meters around the said mine.

Earlier case was presented by the PP and their consultant in the 41st SEAC-II meeting Dated 26/07/2017 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. Afforestation plan with some species of meditational plants.

The PP has submitted the EIA report vide letter dated 23/11/17, which was forwarded by the SEIAA vide letter no. 1329 dated 12/12/2017.

The case was scheduled for the presentation 302nd SEAC meeting did not date 22.12.2017 but 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 even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

This case was again scheduled for presentation in 304th SEAC meeting dated: 15/01/2018 but 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. PP was also absent in the 302nd SEAC meeting dated 22.12.2017. Committee decided to call the PP in subsequent meetings giving last chance 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.

PP and their consultant were present for the EIA presentation in the 308th SEAC meeting dated 24/02/2018 wherein it was observed by the committee that the ML lies in the forest area and the earlier FC is expired. Further it has been specified in MoEF&CC letter no. 8C/32/2002-FCW/180 dated 08.04.2015 that forest clearance was issued only for period of 10 years from the date of commencement of operation i.e. 2006 to 2016 and as on date extension of forest clearance is not available with the PP. During presentation PP was unable to provide any proof regarding the efforts made by them for extension of FC i.e. copy of application submitted to the competent authority for extension of FC clearance. Thus in the absence of any status of FC clearance case cannot be considered for grant of EC. Committee after deliberations decided that PP may be given an opportunity for submission of relevant documents for FC clearance as per MoEF&CC office memorandums within 30 days for further consideration of this project.

This case was scheduled for the query discussion which were raised in 308th SEAC meeting dated 24/02/2018 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 even it the PP remains absent, the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

(Dr. Mohd. Akram Khan) **Member**	**(Dr. R Maheshwari)** **Member**	**(Dr. J. P. Shukla)** **Member**
(Prashant Shrivastava) **Member**	**(Dr. Sonal Mehta)** **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.