

The 176th meeting of the State Expert Appraisal Committee (SEAC) was held on 26th February, 2015 under the Chairmanship of Dr. R. B. Lal. The following members attended the meeting-

1. Dr. MohiniSaxena, Member
2. Shri K.P. Nyati, Member
3. Shri A.P. Srivastava, Member
4. Shri Manoj Pradhan, Member
5. Dr. Srinivasan Krishnan Iyer, Member
6. Shri Manohar K. Joshi, Member
7. Dr. U.R. Singh, Member
8. Dr. Alok Mittal, Member
9. Shri A.A. Mishra, Secretary.
10. Dr M.P. Singh, Member.

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

Discussion and decision taken on miscellaneous issues:

- 1. Case No. - 2374/2015 Shri Ram Singh S/o Shri Roop Singh Jadon, Kabulpur, Tehsil-Mo. Barodia, Shajapur (MP) Prior Environment Clearance for approval of Sand Quarry in an area of 5.20 ha. (4,000 cum/year) at Village-Tiganjpur Deepra, Tehsil-Gulana, District-Shajapur (MP)**

This is a sand mining project comprising a lease area of 5.20 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following: ·

The quarry is located at - *Village-Tiganjpur Deepra, Tehsil-Gulana, District-Shajapur (MP)*. Concerned Mining Officer vide letter no. 264 dated 02/03/15 has reported that 01 more sand quarry is operating / proposed within 1 Km from all the peripheries of the proposed sand quarry with total lease area of 17.24 Ha. · It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 4000 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.

9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

2. Case No. - 2375/2015 Shri Amit Suryavanshi, Village & Tehsil – Barghat, Seoni (MP)-480667 *Prior Environment Clearance for approval of Sand Mine in an area of 5.00 ha. (76,000 cum/year) at Village-Mandi Kakdai, Tehsil-Barghat, District-Seoni (MP)*

This is a sand mining project comprising a lease area of 5.00 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at 6 River Heerni, *Village-Mandi Kakdai, Tehsil-Barghat, District-Seoni (MP)*. Concerned Mining Officer vide letter no. 2875 dated 17/12/14 has reported that no sand quarry is operating / proposed within 1 Km from all the peripheries of the proposed sand quarry. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 76000 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.

11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

3. Case No. - 2377/2015 Shri Ravi Bharat Rai, Partner, M/s Mahishmati Ret Company, Village-Khursipar, Tehsil-Kevlari, District-Seoni (MP)-470113 *Prior Environment Clearance for approval of Sand Mine in an area of 6.00 ha. (1,72,872 cum/year) at Village-Khursipar, Tehsil-Kevlari, District-Seoni (MP)*

This is a sand mining project comprising a lease area of 6.00 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at 6 River Heerni, *Village-Khursipar, Tehsil-Kevlari, District-Seoni (MP)*. Concerned Mining Officer vide letter no. 2844 dated 15/12/14 has reported that no sand quarry is operating / proposed within 1 Km from all the peripheries of the proposed sand quarry. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 1,72,872 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.

11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

4. Case No. - 2378/2015 Shri Gyan Singh S/o Shri Bahador Singh Parihar, Adarsh Colony, Shajapur (MP) Prior Environment Clearance for approval of Sand Quarry in an area of 8.00 ha. (9,000 cum/year) at Village-Nichma, Tehsil-Shajapur, District-Shajapur (MP)

This is a sand mining project comprising a lease area of 8.00 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at Village-Nichma, Tehsil-Shajapur, District-Shajapur (MP). Concerned Mining Officer vide letter no. 230 dated 24/02/2015 has reported that 01 more sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry, with cumulative lease area of 13.2 Ha. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 9000 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.

11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

5. Case No. – 2379/2015 Shri Radheshyam Lodhi, Site Manager, M/s Ferro Concrete Construction (India) Pvt. Ltd., A-Class Contractor, 5-A, Industrial Area, Bhagirathpuri, Indore (MP)-452003 Prior Environment Clearance for approval of Sand Mine in an area of 8.00 ha. (3,040 cum/year) at Village-Bairad, Tehsil-Biaora, District-Rajgarh (MP)

This is a sand mining project comprising a lease area of 8.00 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at 6 Village-Bairad, Tehsil-Biaora, District-Rajgarh (MP). Concerned Mining Officer vide letter no. 846 dated 30/12/14 has reported that no sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 3040 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.

8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

6. Case No. – 2381/2015 Shri Kamal Kishore S/o Shri Anar Singh Padihar, Village-Chayan, Tehsil & District-Shajapur (MP) Prior Environment Clearance for approval of Sand Quarry in an area of 5.20 ha. (24,000 cum/year) at Village-Kudana, Tehsil-Gulana, District-Shajapur (MP)

This is a sand mining project comprising a lease area of 5.20 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at Village-Kudana, Tehsil-Gulana, District-Shajapur (MP). Concerned Mining Officer vide letter no. 234 dated 24/02/15 has reported that 01 moresand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry, with cumulative lease area of 15.90 Ha. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 24000 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.

5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

7. Case No. – 2382/2015 Shri Gokul Singh S/o Shri Gangaram, Village-Bansingh, Tehsil-Mahidpur, District-Ujjain (MP)-456440 *Prior Environment Clearance for approval of Sand Mine in an area of 5.25 ha. (79,800 cum/year) at Village-Bansingh, Tehsil-Mahidpur, District-Ujjain (MP)*

This is a sand mining project comprising a lease area of 5.25 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at River Kalisindh, Village-Kudana, Tehsil-Gulana, District-Shajapur (MP). Concerned Mining Officer vide letter no. 1122 dated 09/01/15 has reported that no sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.

4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 79,800 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

8. Case No. – 2383/2015 Shri Balwan Singh S/o Shri Dule Singh Jadon, Kabulpur, Tehsil-Mo. Barodia, Shajapur (MP) Prior Environment Clearance for approval of Sand Quarry in an area of 12.040 ha. (17,000 cum/year) at Village-Kabulpur, Tehsil-Mo. Barodia, District-Shajapur (MP)

This is a sand mining project comprising a lease area of 12.040 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at River Kalisindh, Village-Kabulpur, Tehsil-Mo. Barodia, District-Shajapur (MP). Concerned Mining Officer vide letter no. 265 dated 02/03/15 has reported that 01 sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry, with cumulative lease area of 17.240 Ha. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 17000 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

9. Case No. – 2384/2015 Shri Parvinder Singh S/o Shri Jagir Singh, 1416, Madan Mahal, Jabalpur (MP)-482004 Prior Environment Clearance for approval of Sand Quarry in an area of 5.10 ha. (1,16,280 cum/year) at Village-Bamhani, Tehsil-Mandla, District-Mandla (MP)

This is a sand mining project comprising a lease area of 5.10 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at River Bamhani banjar (a tributary of R. Narmada), Village-Kudana, Tehsil-Gulana, District-Shajapur (MP). Concerned Mining Officer vide letter no. 153 dated 12/02/2015 has reported that 01 more sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry, with cumulative lease area of 10.923 Ha. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 1,16,280 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpauline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

10. Case No. – 2408/2015 Shri Puneet Singh M/s Vasundhara Agro Agency, Near Raghuraj School, Shahdol (MP)-484771 *Prior Environment Clearance for approval of proposed Sand Quarry in an area of 5.00 ha. (65,000 cum/year) at Village-Lalpur, Tehsil-Sohagpur, District-Shahdol (MP)*

Scrutiny of the application and the documents revealed that various pre-requisite & essential documents (such as information from DFO and the information from Mining Officer on total mining area within 500 meters around the proposed mine) have not been submitted by the PP with the application. Hence the case was deferred. PP was asked to submit the requisite information and the supporting documents within 15 days. The case shall be considered after receipt of complete information / documents.

11. Case No. 2418/2015 Shri Jagdish Singh S/o Shri Lakhu Singh, Village & Post-Mandleshwar, Khargone (MP)-454331 *Prior Environment Clearance for approval of proposed Sand Quarry in an area of 7.00 ha. (50,000 cum/year) at Village-Bhawariya, Tehsil-Kukshi, District-Dhar (MP)*

Scrutiny of the application and the documents revealed that various pre-requisite & essential documents (such as information from DFO and the information from Mining Officer on total mining area within 500 meters around the proposed mine) have not been submitted by the PP with the application. Hence the case was deferred. PP was asked to submit the requisite information and the supporting documents within 15 days. The case shall be considered after receipt of complete information / documents.

- 12. Case No. 2431/2015** Shri Jagdish Singh S/o Shri Lakhu Singh, Village & Post-Mandleshwar, Khargone (MP)-454331 *Prior Environment Clearance for approval of proposed Sand Quarry in an area of 13.100 ha. (75,000 cum/year) at Village-Khajrana, Tehsil-Kukshi, District-Dhar (MP)*

Scrutiny of the application and the documents revealed that various pre-requisite & essential documents (such as information from DFO and the information from Mining Officer on total mining area within 500 meters around the proposed mine) have not been submitted by the PP with the application. Hence the case was deferred. PP was asked to submit the requisite information and the supporting documents within 15 days. The case shall be considered after receipt of complete information / documents.

- 13. Case No. 2433/2015** Shri Jagdish Singh S/o Shri Lakhu Singh, Village & Post-Mandleshwar, Khargone (MP)-454331 *Prior Environment Clearance for approval of proposed Sand Quarry in an area of 7.781 ha. (25,000 cum/year) at Village-Banki, Tehsil-Kukshi, District-Dhar (MP)*

Scrutiny of the application and the documents revealed that various pre-requisite & essential documents (such as information from DFO and the information from Mining Officer on total mining area within 500 meters around the proposed mine) have not been submitted by the PP with the application. Hence the case was deferred. PP was asked to submit the requisite information and the supporting documents within 15 days. The case shall be considered after receipt of complete information / documents.

- 14. Case No. 2451/2015** M/s Soratiya Velji Ratna and Co. Tehsil Itarsi, Distt. Hoshangabad (M.P) *Proposed Sand Quarry in an area of 4.90 ha. (37455 cum/year) Kh no. 400 at Village-Jamani, Tehsil-Itarsi, District-Hoshangabad (MP)*

This is a captive sand (gravel) mining project for Irrigation Canal construction; project comprises a lease area of 4.90 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following: ·

The quarry is located at 6 Jamani Nallah (a tributary of River Tawa) Kh no. 400 at Village-Jamani, Tehsil-Itarsi, District-Hoshangabad (MP). Concerned Mining Officer vide letter no. 1795 dated 16/02/15 has reported that 02 more sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry and total lease area is 8.2 Ha. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out

manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 37455 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

15. Case No. 2453/2015 M/s Soratiya Velji Ratna and Co. Tehsil Itarsi, Distt. Hoshangabad (M.P) Proposed Sand Quarry in an area of 8.0 ha. (62500 cum/year) at Kh no. 125 Village-Gwarikala, Tehsil-Itarsi, District-Hoshangabad (MP)

This is a captive sand mining project for Irrigation Canal construction; project comprises a lease area of 8.0 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following:

The quarry is located at 6 River Tawa Kh no. 125 Village-Gwarikala, Tehsil-Itarsi, District-Hoshangabad (MP). Concerned Mining Officer vide letter no. 1708 dated 02/02/15 has reported that one more sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry and total lease area is 12 Ha. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry.

PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

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. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
3. Plantation shall be carried out on the banks for stabilization of the banks.
4. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 62500 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
5. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
6. Transportation of sand shall not be carried out through forest area.
7. The mining activity shall be done manually.
8. Heavy vehicles shall not be allowed on the banks for loading of sand.
9. The sand shall be transported by small trolleys up to the main transport vehicle.
10. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
11. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
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.

16. Case No. 1864/2014 Smt. Dipti Patel W/o Shri Nilesh Patel, 84, Luv Kush Nagar, Sector No. 2, District-Khandwa (MP)-450001 Stone Quarry Lease Area – 2.00 ha. Capacity - 25,000 Cu mts /Year, at Khasra No. –343,345,346 & 347 , at Village-Morghadi, Tehsil-Punasa, District-Khandwa (MP).

This is a case of mining of stone bolder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at at Khasra No. –343,345,346 & 347 , at Village-Morghadi, Tehsil-Punasa, District-Khandwa (MP) in 2.0 ha. The project requires prior EC before commencement of any activity at site.

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. It was reported by the concerned Mining Officer of

mining department vide letter no.111 dated 01/09/2014, that 03 more mine is operating / proposed within 500 meter radius around the said mine with total lease area of 6.25 Ha. PP has reported that the pit formed after mining shall be developed into a water body. Crusher is not proposed in the lease area.

The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Garland drains and check-dams shall be constructed considering the slopes of the lease area.
9. Production of stone boulder shall be as per the mining plan not exceeding 25000 m³/Year. The maximum average depth of pits shall not exceed 18 meters (i.e. maximum benches-06).
10. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Peripheral plantation shall be carried out in the first year itself.
11. Transportation shall not be carried out through forest area.
12. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
13. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
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.

17. Case No. 2071/2014 Smt. Sita Bai W/o Shri Ranchodlal, Village-Bedawan, Tehsil-Nagda, District-Ujjain (MP)-456224 *Prior Environment Clearance for approval of proposed Stone Quarry Lease Area – 1.33 ha., at Village-Malikhedi, Tehsil-Nagda, District-Ujjain (MP).*

This is a case of mining of stone bolder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located *at Village-Malikhedi, Tehsil-Nagda, District-Ujjain (MP) in 1.33 ha.* The project requires prior EC before commencement of any activity at site.

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. It was reported by the concerned Mining Officer of mining department vide letter no.736 dated 27/10/14, that no mine is operating / proposed within 500 meter radius around the said mine. PP has reported that the pit formed after mining shall be developed into a water body. Crusher is proposed in the lease area. Proposed production capacity in application is 30000 m³ / Year but the mining plan and other submissions made by the PP is for 5000 m³ / Year, hence case was considered for the same.

The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Garland drains and check-dams shall be constructed considering the slopes of the lease area.
9. Production of stone boulder shall be as per the mining plan not exceeding 5000 m³/Year. The maximum average depth of pits shall not exceed 06.
10. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Peripheral plantation shall be carried out in the first year itself.
11. Transportation shall not be carried out through forest area.
12. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
13. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
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.

18. Case No. 2021/2014 - Shri Lakhan Singh S/o Shri Arjun Singh, Jhangirpur Tehsil Badnagar, Distt. Ujjain (M.P) Sand Mine in an area of 5.960 ha. For Production Capacity 87,360 cum/year at Khasra no.1, at Village-Malpura, Tehsil- Badnagar, Disst- Ujjain (M.P)

This is a captive sand mining project for Irrigation Canal construction; project comprises a lease area of 5.960 ha. The project requires prior EC from SEIAA before commencement of production from the proposed quarry. The application was forwarded by SEIAA to SEAC for

appraisal and necessary recommendation. The submissions and presentation made by the PP reveals following: -

The quarry is located at ó River Chambal, *Khasra no.1, at Village-Malpura, Tehsil-Badnagar, Distt- Ujjain (M.P)*. Concerned Mining Officer vide letter no. -- dated - has reported that no sand quarry is operating / proposed within 1 Km from the peripheries of the proposed sand quarry. It was reported that no national park / wild-life sanctuary is located within 10 from any of the peripheries of the proposed quarry. PP has submitted the Mine Plan duly approved by the competent authority. PP has also submitted an EMP. The mining is proposed to be carried out manually. Based on the presentation and the submissions made by the PP committee has decided to recommend the case subject to the following special conditions:

1. A road bridge connecting village is reported in the lease area; at least 50 meter buffer shall be left on either side of the bridge and the ramp for bridge shall not be used for transporting sand.
2. 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.
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. Abstraction of sand shall be as per the approved Mining Scheme but not exceeding 87,360 m³ in a year and the depth of mining shall be restricted to 3m or water level, whichever is less.
6. Mining shall be carried only between 1st November to 31st May i.e. during non-monsoon period.
7. Transportation of sand shall not be carried out through forest area.
8. The mining activity shall be done manually.
9. Heavy vehicles shall not be allowed on the banks for loading of sand.
10. The sand shall be transported by small trolleys up to the main transport vehicle.
11. Transport vehicles will be covered with tarpoline to minimize dust/sand particle emissions.
12. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone of 1 Km 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.
13. No in stream mining shall be allowed.
14. 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.
15. Established water conveyance channels should not be relocated, straightened, or modified.
16. 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.
17. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
18. PP shall take Socio-economic activities in the region through the Gram Panchayat.
19. EC will be valid for mine lease period subject to a ceiling of 5 years.

(File to be forwarded after receipt of letter from Mining Officer on leases in 500 meter radius.)

- 19. Case No. 2016/2014** Shri Sachin Patni S/o Shri Chandra Patni R/o 105, Chota Baajar, Unhel, Distt-Ujjain (M.P.)-456221 *E.C. for Stone Quarry Lease Area – 4.00 ha., Capacity- 24000cum/year at Khasra No.-76, Village-Akia Najik, Tehsil- Nagda, Distt-Ujjain (M.P.)*

It was informed by the PP that the application for the project has been revised and submitted to SEIAA. The revised application has not been received at SEAC hence the case was deferred.

- 20. Case No. – 1960/2014** M/s Umbra Mining Pvt. Ltd., 23-A, Royal Residency, Pipalyahana, Indore (MP)-452006 *Rewati Basalt Stone & Murrum Quarry Lease Area – 3.66 ha. at Village-Rewati, Tehsil-Hatod, District-Indore (MP) Prod. Capacity- 6,82,974 m³/year.*

This is a case of mining of stone bolder & murrum. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located *Village-Rewati, Tehsil-Hatod, District-Indore (MP)* in 3.66 ha. The project requires prior EC before commencement of any activity at site.

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. It was reported by the concerned Mining Officer of mining department vide letter no.1733 dated 23/09/14, that 01 more mine is operating / proposed within 500 meter radius around the said mine with total lease area of 7.66 Ha. PP has reported that the pit formed after mining shall be developed into a water body. Crusher is proposed in the lease area. Committee observed that the proposed production is very high and would require frequent blasting. Considering the environmental and human safety the committee agreed to allow a maximum production of 1.5 lac m³ of stone in a year. PP has submitted a written consent for the same.

The EMS and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions:

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 mined out pits shall be developed into water body being appropriately fenced and with safe stairway.
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 pollution control measures for crusher have to be installed as per the recommendation of MPPCB.
6. Permission / NOC shall be obtained from Gram Panchayat for lifting water from the village resources and shall be furnished to MPPCB while obtaining necessary consents under the provisions of Air / Water consents.
7. Curtaining of site shall be done using appropriate media.
8. Garland drains and check-dams shall be constructed considering the slopes of the lease area.

9. Production of stone boulder shall be as per the mining plan not exceeding 1.5 lac m³/Year and murrum 6 22466 m³/ Year. The maximum average depth of pits shall not exceed 15 meters.
10. **Blasting:** shall be restricted to twice a day with maximum 60 Kg charge per blast.
11. The proposed plantation should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Peripheral plantation shall be carried out in the first year itself.
12. Transportation shall not be carried out through forest area.
13. Appropriate activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat.
14. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
15. 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.

21. Case No. - 2092/2014 Shri Sanjeev Sabharwal, Partner, M/s SARC Infrastructure & Technology, Near Bawarchi Restaurant, Hoshangabad Road, Bhopal-462026 Prior Environment Clearance for approval of proposed commercial project "Pacific Business Centre" at Vill.-Bawadia Kalan, Tehsil-Huzur, District-Bhopal (MP) Env. Consultant-In Situ Enviro Care, Bhopal. For – Building Construction.

This is an area development / building construction project comprising total built-up area of more than 20000 m². The project is covered under the provisions of EIA notification and mentioned as item no. 8 (a) hence requires prior EC before commencement of activity at site. It was reported by the PP and his consultant that construction in the project has been started and hence the provisions of EIA notification have been violated. In compliance to the O.M. of MoEF dated 12/12/2012 the case can be considered only after ensuring credible action by the concerned authority against the project proponent for the violation. The case was deferred as PP could not submit appropriate evidence pertaining to the credible action.

22. Case No. – 2190/2014 Mr. K.L. Moolani, MD, Bhojpal Builders & Developers Pvt. Ltd., Mez. Floor-3, R.K. Tower, 93-94, Zone-II, M.P. Nagar, Bhopal-4620 "Shri Krishna Heights" at Vill.-Barrai, Tehsil-Huzur, District- Bhopal (M.P.)) Env. Consultant-In Situ Enviro Care, Bhopal. For – Building Construction.

This is an area development / building construction project comprising total built-up area of more than 20000 m². The project is covered under the provisions of EIA notification and mentioned as item no. 8 (a) hence requires prior EC before commencement of activity at site. It was reported by the PP and his consultant that construction in the project has been started and hence the provisions of EIA notification have been violated. In compliance to the O.M. of MoEF dated 12/12/2012 the case can be considered only after ensuring credible action by the concerned authority against the project proponent for the violation. The case was deferred as PP could not submit appropriate evidence pertaining to the credible action.

23. Case No. - 2332/2015 M/s D.P. Rai, Shri V.B. Rai, Nominated Partner, Nanhaka, 10, East High Court Road, Ramdeshpeth, Nagpur (MS)-440010 E.C For Pandharwani Manganese Ore Mine, Lease Area – 14.90 Ha. for expansion in Production Capacity from 3000 Tonnes per annum to 10,000 Tonnes per annum, at Khasra Nos.3/1, 3/2, 4/2, 4/3, 4/1, 1/1, 1/2, 1/3, 1/4, 1/5, 2/1, 2/2, 2/3, 9/1, 9/3, 9/6, 10/1, 10/2, 10/3, 10/4, 10/6, 10/7, 10/8, 10/9,

10/10, 11/1, 11/2, 11/3, 11/5, 136/1, 136/2, 134, 138/1, 138/2 at Village- Pandharwani, Teh – Khairlanji, Disst- Balaghat (M.P)

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. Committee decided to call the PP in subsequent meetings after hearing from PP. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

24. Case No. - 2333/2015 Shri Vijay B Khandelwal, 678, Shyama Kuti, Hanuman Nagar, Tharsa Road, Kanhan, Dist-Nagpur (MS)-441401 E.C For Botejhari Manganese Ore Mines Lease Area – 8.45 Ha. for expansion in Production Capacity from 1500 MTPA To 16,000 MTPA at Khasra Nos. 29, 45, 47 & 59 at Village-Botejhari, Teh-Wareseoni, Distt-Balaghat (M.P)

This is mining project comprising mining of *Manganese Ore* in a lease area of 8.45 Ha. The project is covered under the provisions of EIA notification as item no. 1(a), hence requires prior EC from SEIAA. Application submitted by the PP was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP. The salient features of the project and proposed TOR were presented by the PP and his consultant before the committee. It is reported that the mine is operational with a production capacity of 1500 MTPA and PP wish to enhance the production capacity to 16000 MTPA.

After deliberations committee approved the **TOR** with inclusion of following points to be addressed in the EIA / EMP report:

1. Details pertaining to re-handling of waste dumps.
2. Protection plan for nearby nallah to furnished in detail.
3. Hydro-geological studies to be carried out presented with recommendations & the mitigation to prevent depletion of water in the nearby bore-wells.
4. Detailed CSR activities with budgetary provisions.
5. Present environmental status with supporting recent photographs.
6. Report on the compliances of the conditions laid in Air / water consents of MPPCB with due validation from the MPPCB.
7. Report on the compliances of the conditions laid in existing EC (if any) with due validation from the R.O. of MoEF.
8. Environment quality monitoring shall be carried out through approved laboratory. Ground-water and surface-water quality shall be analysed for heavy metal concentration along with other parameters.

25. Case No. - 2334/2015 Shri Krishnan Gopal Krishnan, HS&E Manager, M/s Proctor & Gamble Home Products Limited, Plot No. 182, Sector-A, Industrial Area, Mandideep, Raisen-462046 (MP) Prior Environment Clearance for 9510 KVA Diesel Generators sets at Proctor & Gamble(P&G) site at Plot No.- 182-186, Ind. Area - Mandideep Distt. –Raisen-M.P.) Factory Area - 245584 m², DG Set Area - 721.24 m², Village-Satlapur & Mandideep Nagar Palika, Tehsil-Goharganj, District-Raisen(MP) (Cat.- I(d)Case)

Neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee

during the deliberation. Committee decided to call the PP in subsequent meetings after hearing from PP. A request has to be made by the PP for scheduling the case in coming meetings within a month's time after which the case shall be returned to SEIAA assuming that PP is not interested to continue with the project.

26. Case No. - 2341/2015 Shri Satyabrata Satpathy, Director, M/s H.P. Ore Processors Pvt. Ltd., Missal Layout, Nagbhoomi Society, Indora, Nagpur-440014 Environment Clearance for approval of proposed Iron Ore Beneficiation Plant at Industrial Area, Village-Hargarh, Tehsil-Sihora, District-Jabalpur (MP) – Prescribing of TOR

This is an Ore beneficiation project comprising beneficiation of Iron Ore. The project is covered under the provisions of EIA notification as item no. 2(b), hence requires prior EC from SEIAA. Application submitted by the PP was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP. The salient features of the project and proposed TOR were presented by the PP and his consultant before the committee.

After deliberations committee approved the **TOR** with inclusion of following points to be addressed in the EIA / EMP report:

1. Ground-water study w.r.t to heavy metals concentration to be furnished.
2. Analyses of TiO₂ to be presented in ore as well as solid waste.
3. Complete ore analyses to be furnished.
4. Water balance with source of water to be furnished along with the consent / permission for supply of requisite quantum of water from the competent authority.
5. Explore the possibility for Zero Liquid Discharge.
6. Mass balance for the solid waste (tailings) for entire plant to be presented along with a study on other options for disposal.
7. Complete details of the Tailing Pond including the lining, dimensions, capacity etc.
8. TCLP analyses of the tailings to be presented to support the tailing design.
9. Comprehensive study to be furnished regarding end-users of solid waste (tailings) if proposed.
10. Appropriate Garland drains to be provided around all the heaps in the premises along with the settling / collection tank connected to the garland drains.- complete plan to be furnished in the report.
11. BAT study to justify the opted beneficiation technology as one of the best available technologies.
12. Other standard TORs shall be applicable.

27. Case No. - 2359/2015 Shri Ajay Singh, Director, M/s Jatashankar Marbles Pvt. Ltd., Ganesh Villa, 153, Sector-46, Faridabad (Haryana)-121003 Granite Mine Lease Area – 4.529 Ha., (Capacity -24,000 cum/year) at Village-Kesripura, Tehsil-Lavkush Nagar, District-Chhatarpur (MP) – Prescribing of TOR

This is mining project comprising mining of *Granite* in a lease area of 4.529 Ha. The project is covered under the provisions of EIA notification as item no. 1(a), hence requires prior EC from SEIAA. Application submitted by the PP was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP. The salient features of the project and proposed TOR were presented by the PP and his consultant before the committee.

After deliberations committee approved the **TOR** with inclusion of following points to be addressed in the EIA / EMP report:

1. Detailed CSR activities with budgetary provisions.
2. Present environmental status with supporting recent photographs.
3. Environment quality monitoring shall be carried out through approved laboratory.
4. Explore the beneficial use of the waste generated from the mine.
5. Other standard TORs shall be applicable.

28. Case No. - 2373/2015 Shri Pawan Jain- M.D. 127/1, Sangam Colony, Baldeobagh, Jabalpur (M.P.)-480002 Expansion of Jain Mines & Mineral (India) Environment Clearance for approval of proposed Iron Ore Beneficiation Plant (Existing Capacity 90,000 TPA, Proposed Capacity-4,80,000) at Industrial Area, Village-Hargarh, Tehsil-Sihora, District-Jabalpur (MP) – Prescribing of TOR

This is an Ore beneficiation project comprising beneficiation of Iron Ore. The project is covered under the provisions of EIA notification as item no. 2 (b), hence requires prior EC from SEIAA. It was reported that, the industry is operational with existing production capacity of 90,000 TPA and proposes an expansion in the production capacity up to 4,80,000 TPA. Application submitted by the PP was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP. The salient features of the project and proposed TOR were presented by the PP and his consultant before the committee.

After deliberations committee approved the **TOR** with inclusion of following points to be addressed in the EIA / EMP report:

1. Compliance report for compliance of the conditions of the existing EC has to be furnished after due validation and comments from the concerned Regional Office of MoEF.
2. Ground-water study w.r.t to heavy metals concentration to be furnished.
3. Analyses of TiO₂ to be presented in ore as well as solid waste.
4. Complete ore analyses to be furnished.
5. Water balance with source of water to be furnished along with the consent / permission for supply of requisite quantum of water from the competent authority.
6. Explore the possibility for Zero Liquid Discharge.
7. Mass balance for the solid waste (tailings) for entire plant to be presented along with a study on other options for disposal.
8. Complete details of the Tailing Pond including the lining, dimensions, capacity etc.
9. TCLP analyses of the tailings to be presented to support the tailing design.
10. Comprehensive study to be furnished regarding end-users of solid waste (tailings) if proposed.
11. Appropriate Garland drains to be provided around all the heaps in the premises along with the settling / collection tank connected to the garland drains.- complete plan to be furnished in the report.
12. BAT study to justify the opted beneficiation technology as one of the best available technologies.
13. Other standard TORs shall be applicable.

29. Case No. - 2070/2014 Mr. Wasiq Hussain, Partner, Lake Land Builders and Developers, Pearl Centre, Near Shree Institute of Technology, Behind Sant Asaram Asharam, Gundermau, Gandhi Nagar, Bhopal-462036 (MP) *Environmental Clearance for approval of proposed residential project "Lake Pearl Magestic" at village-Neori, Tehsil-Huzur, Bhopal (MP).* -**Building Construction.**

The project was scheduled for 173rd meeting dated 23/02/2015, but was not considered by the committee as most of the members did not receive the documents pertaining to the project in time. The case was allowed by the committee for presentation in this meeting on request of PP.

Location of the Project:

Khasara No. 79/1/2/CH, 79/1/2/CHH, 79/1/2/KH, 79/1/1, 79/1/3, 79/1/5, 79/1/6, 79/1/7, 79 / 1 / 8, 79 /1/9, 79/1/14, 79/1/15, 78/1/1/1, 78/1/1/2, 78/1/1/3, 78/1/2/1, 78/2/2/1, 78/1/2/2, 78 / 2 / 2 / 2, 78/1/2/3, 78/2/2/3, 78/1/2/4, 78/2/2

Village: Neori , Tehsil: Huzur , District : Bhopal, Madhya Pradesh

Latitude: 23°17'41.80"N, Longitude: 77°23'9.39"E

Salient features of the project:

S.N.	Description	Details
1	Plot / Land area (m ²) Net plot area in (m ²)	47910 Net Planned Area: 47,623.55 m ²
2	Built up area (m ²)	TOTAL BUILT UP AREA: 64681.52 a. Multi-Unit: 46069.44 m ² (Total Built-up Area as per TNCP is 27458.06 m ² and rest 18611.38 m ² for EWS, LIG, Stilt Parking, Convenient Shops, Club House, etc.) b. For Plotted Development: 18612.08 m ² *(After deducting area under road widening)
3	Permissible FAR (m ²)	27458.06
4	Ground coverage %	30
5	Stilt area (m ²)	6300
6	Parking facility	Open parking ó 100 ECS, 2490.45 m ² Stilt Parking - 210 ECS, 6300 m ² Total ó 310 ECS
7	Green area (m ²)	4928.98
8	Height of building	21 m
9	Total no. of Residential Units	356 Flats 145 Plots
10	Power Requirement	2,500 KVA Source: MPSEB/MPPKVCL
11	Proposed capacity of D.G. set	200 KVA X 1
12	Fresh Water Requirement & Source	Operation Phase: 263.2 KLD Source: BMC
13	Waste Water Generation	353.7 KLD

14	Sewage Treatment Plant (STP)	375 KLD
15	Total Solid Waste Generation	1500 Kg/day

Social Environment

- Provision for space for social interaction (Club house, workshop area)
- Provision of recreational area
- Play area for children
- School and college within 1 km
- Safety measures from accidents, (hospital within 2 km)
- Market, malls, multiplex and shopping centers within 2 to 4 km

Infrastructure Facilities

- Treated water supply through BMC
- Continuous power supply
- Adequate parking facility
- Proper approach road area of Master Plan
- Proper sized window for adequate ventilation and natural lighting
- Use of non-toxic paints to improve Indoor Air Quality
- Fire-fighting system
- Lift with power backup

Eco-friendly Measures

- Eco-friendly building material for construction as per NBC
- Use of fly ash with cement in RMC for construction activity
- Using building materials, components and systems found locally
- Environmentally friendly disposal of sewage
- Efficient solid waste management and its disposal
- Efficient waste water management - Reuse of recycled waste water for toilet flushing, gardening, vehicle cleaning and road washing
- Rain water harvesting pits to recharge the ground
- About 25% of the area is reserved for park / garden / playground.
- Eco-friendly amenities like solar water heating system
- Power backup (DG Set) with proper acoustic enclosure

Energy Saving Measures

- CFL, LED & T-5 lighting fixtures in the common areas
- Star rated/ISI mark energy efficient motors and pumps for water supply & sewage pumping
- CLC (Cellular lightweight concrete)/ locally made fly ash bricks blocks plastered on both sides

Clearances from other agencies as reported by the PP:

Town & Country Planning	Obtained
NOC from Airport Authority	Obtained
Development Permission	Obtained
Land Diversion	Obtained
Fire NOC	Applied
Colonizer License	Obtained

Water Supply	From BMC , Applied
Excess Sewage Disposal / Connection, Storm Water Disposal, MSW and STP Sludge Disposal	Through BMC sewage line, storm water drain and MSW and STP sludge through BMC

Water and wastewater details (operation phase)

	Purpose	Water Requirement		Fresh water Requirement (KLD)	Treated Water Requirement (KLD)	Wastewater Generation (KLD)
		Quantity (KLD)	Remarks			
A	Residential	388.800	135 LPCD for 2,880 Occupants	259.20	129.60	330.48
B	Visitors (including Convenient Shops & Club House)	3.75	15 LPCD for 250 visitors	2.5	1.25	1.875
C	Staff (Convenient Shops & Club House)	2.25	45 LPCD for 50 staff members	0.5	1.75	1.9
D	Green area	30	6 lit/m ² for 4928.98 m ²	-	30	-
E	Fountains	3	3000 lit for fountains (evaporation loss make up)	-	3.0	-
F	Swimming Pool	1	-	1	-	-
G	Public Use Cleaning	75	50,000 lit for cleaning amenities, road washing, car washing, etc.	0	75	25
Total		502.800	--	263.200	240.600	359.255

Rain water harvesting details

Number of pits	6
Size of pits	3.5 m x 3.5 m x 4 m (42 m ³)
Size of Bore	350 mm dia
Size of pipe	150 mm dia

Operation Phase- Solid waste generation

S. No	Description	kg/capita/day	Total Solid Waste Generation (kg/day)
1.	Residents (2,880 persons)	0.5	1440.00
2.	Staff (50 persons)	0.425	21.25
3.	Visitors (250 persons)	0.15	37.50
4.	Landscape waste	0.2	0.24
Total			1498.99 kg/day Say 1500 kg/day

Proposed parking

Parking required for Residential Area= 100 m²
 FAR area = 27458.06 m²
 Thus Parking Required = 27458.06 m² /100 m²
 = 274.58 SAY 275

Parking Provided = 310 ECS

Open parking: 100 ECS (2500 sq m area @ 25 sq m/ECS)

Stilt Parking : 210 ECS (6300 sq m area @ 30 sq m/ECS)

Fire Fighting Installations:

Under the clauses (4.18.2, 6.1.2, 6.2.3, 6.3.2, 6.4.3, 6.5.2, 6.5.2.1, 6.5.2.2, 6.5.2.3, 6.5.2.4, 6.5.2.5, 6.6.2, 6.7.2, 6.8.2 and 6.9.2) following are minimum requirements for fire-fighting installations.

- Fire Extinguishers
- Hose Reel
- Wet Riser
- Yard Hydrant
- Automatic Sprinkler System (to be installed in entire building)
- Manually Operated Electric Fire Alarm Systems
- Underground Static Water Storage Tank of 1,80,000 lit
- Terrace Tank -10,000 X 3 no.
- One electric and one diesel pump of capacity 2,280 l/min and one electric pump of capacity 180 l/min.

Energy saving measures as per ECBC

Following measures will be taken to increase the energy-efficiency of proposed

Residential complex:

- ❖ LED, CFL & T-5 lighting fixtures in the common areas
- ❖ Star rated/ISI mark energy efficient motors and pumps for water supply & sewage pumping
- ❖ CLC (Cellular lightweight concrete) blocks plastered on both sides
- ❖ About 20% of Energy will be saved in comparison to conventional lighting system.

Use energy saving and recycled materials for construction- Following low-energy/ recycled material based finishes/ products will be used in the exteriors (paving etc.) and interiors (flooring, doors/ windows, frames, interior wood finishes, panelling, false ceiling etc.), which use low-energy materials and products and industrial waste/ recycled products and minimize the use of wood as a natural resource.

- ❖ Use of ready mix concrete containing fly ash or PPC which contains fly ash
- ❖ Use of PPC (which contains minimum 10% of fly ash) in mortar and plaster
- ❖ Use of PPC or fly ash based paving blocks/ tiles and pre-cast elements
- ❖ Fibrous gypsum punning made from industrial wastes..

Green Belt

- ❖ Total area for landscaping : 4928.98 m²

Type of trees for plantation in project site is following: Neem, Peepal, Kachanar, Kadam, Mango, Palm, Ashok, Gauva, etc. besides ornamental and flowering plants

Environmental Monitoring Budget

S.N.	Head	Approximate recurring cost per annum (Rs. in lacs)	Approximate Capital cost (Rs. In lacs)	Basis for cost estimates
1.	Air	1.0	10.0	Stack and DG room
2.	Water Pollution Control	6	60.0	STP and dual plumbing cost
3.	Solid and hazardous waste management	2.0	3.0	Provide a bins at each door and transportation cost

4.	Environment monitoring	3.0	-	The recurring cost would be incurred on hiring of consultants and payment of various statutory fees to regulatory agencies.
5.	Rain water	0.5	10.0	Recycling and recharging
6.	Green belt	2.0	20.0	Drip irrigation, sprinkler and plantation
Total		14.5	103.0	-

After deliberations committee found the submissions satisfactory and acceptable hence the was recommended for grant of prior EC subject to the following special conditions:

1. Mobile toilets / latrines shall be provided for the site-workers during construction phase.
2. Common toilets / latrines shall be provided for general visitors / service providers during operation.
3. Separate facilities shall be provided for the two segments of the project.
4. Parking space shall be provided such that no vehicles are parked on road sides and free movement of fire-tenders is ensured in case of fire emergency.
5. Grit-chamber has to be provided essentially in the STP.
6. Fresh water requirement for the project shall not exceed 263.2 KLD.
7. No ground water shall be used as proposed.
8. Use of Photovoltaic cells (Solar energy) in common areas to be taken up.
9. Press-filter dried STP sludge and the MSW shall not be stored at site for more than 48 hours; accordingly space of appropriate size shall be developed at suitable location within the project premises.
10. Appropriate play spaces shall be developed in the project.
11. Clearances / Pre- Clearances shall be obtained as applicable.
12. All the directions issued by Hon'ble Supreme Court of India/National Green Tribunal/Ministry of Environment, Forest & Climate Change, New Delhi from time to time shall be applicable.

30. Case No. 1765/2014 – Shri Kanhiya Lal, Executive Engineer , Central Academy of Police Training CAPT Project Division, CPWD, Kanhasiyya, Tehsil – Huzur, Distt. – Bhopal (M.P.). *Central Academy for Police Training of Bureau of Police Research and Development Ministry of Home Affairs, Government of India. Total Land Area- 106.15 Ha., at Khasra No. 197, 198, 204, 261, Village- Kanhasiyya, Tehsil – Huzur, Distt. – Bhopal (M.P.) Institutional Campus development with Proposed Built Up Area – 59383.84 Sqm. ToR issued vide letter no. 240 dated 17/11/2014* **Building Construction. Env. Consultant: Creative Enviro Services, Bhopal (M.P.)**

This is a Central Sector scheme of MHA fully funded through budgetary support from Government of India. The state government of Madhya Pradesh has provided about 401 acres land spread in three Plots- A, B & C of approx. area 118, 267 & 16 acres respectively near village Kanhasaiya , Tehsil Huzoor, Distt. Bhopal for setting up the central academy. In view of above the project was included as additional item with due permission of the Chairman.

The main academy is proposed in Plot- B comprises of Khasra nos 204, 197, 198, 199 and 261 having an area of 106.15 hectares. By virtue of the size of plot area (more than 50 hectares) the

project is covered under the provisions of EIA notification and is mentioned as item 8 (b) in the schedule of the said notification the project falls under category B-1 and requires prior EC from SEIAA. TOR was approved by SEAC in the 151st meeting and issued vide letter no. 240 dated 17/11/2014. EIA report submitted by the PP was forwarded to SECA by the SEIAA for appraisal and necessary recommendation. PP and his consultant presented the report with proposed EMP before the committee.

It was submitted that water will be primarily sourced through Ghodapachhad reservoir as well as from reuse of treated effluent. It is estimated that 264.74 KLD water is required per day for the domestic and other activities, out of which 121.35 KLD of treated water will be used for flushing, horticulture purposes etc. Detention pond water shall be used to supplement the horticulture need. The presentation and submission made by the PP reveals following:

Project Details

Total Area	106.15 ha.
Total Built up Area	59383.84 sq mt
Activity area	547192.115
Cost of project	~188.87 Crore
Promoters of the Project	Bureau of Police Research and Development (Ministry of Home Affairs, Government of India) CAPT Project Circle, CPWD, Bhopal
Location of Project	Village ó Kanhasaiya, Tehsil- Huzur, Bhopal (MP)
Khasra No.	204, 197, 198 and 261
Occupancy	Land has been allotted to the PP by the State Govt
Geological Location	Latitude 23°18'38" N and Longitude 77°31'44" E
Altitude	489 m AMSL
Nearby Features of the site	North : Forest land South : Agricultural land, forest land and road East : Godha Pachhad River West : Agricultural land
Nearest Highway	NH-86 ext. ó 10 km
Railway Station	Bhopal -18 Km, Habibganj ó 12 km
Airport	Raja Bhoj ó 25 km
Topography	Plain

Facility	Training Institute
Location	Village- Kanasaiya, Tehsil- Huzur, Bhopal (MP)
Promoter of the Project	Bureau of Police Research and Development (Ministry of Home Affairs, Government of India), CAPT Project Circle, CPWD, Bhopal
Total Land area	106.15 ha.

Proposed Built-up Area	59383.84 sq mt
Activity Area	547192.115 sq mt
Cost of project	~188.87 Crore
Net fresh Water Requirement	160 KLD
Power Requirement	5200 KW
Back up Power facility	2 DG Sets 750 KVA each
Solar lighting panel	20 KW for street lighting
Solid Waste	~607 kg per day
Height of buildings	G + 2 maximum
Front MOS	12.00 m
Rear/Side MOS	6.00 m
Width of main access	24 m wide road
Distance of fire station	Bhopal 18 kms
Parking area	Open 14075 sqm
Number of vehicle to be parked	537 PCU
Area under organized green	30631.53 sq mt
Area under landscape	90434.38 sq mt
Area under Roads	65928.43 sq mt

Environment Setting of Project

Particulars	Details
Locations	
A. Village	Kanhasaiya
B. Tehsil	Huzur
C. District	Bhopal
Coordinate	23°18'38" N - 77°31'44" E
General ground level	489 above MSL
Elevation range	Highest- 500 above MSL lowest- 486 above MSL
Nearest National/ State Highway	NH-86 Ext. (By-pass) ó 2.0 km - W
Nearest Railway Station	Shukhi Sewaniya - 5.50km - NW Bhopal - 13.0km - SW
Nearest Airport	Raja Bhoj Airport, Bhopal - 20.0 km
Archaeological Important Place	None within 10km radius
Ecological Sensitive Areas (Wild Life Sanctuaries)	None within 10km radius
Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Reserve Forest ó 100 mt

Nearest major city with 100000 population within 10km radius	Bhopal
Nearest Town / City within 10km radius	Bhopal
Surrounding village within 1 km area of the project.	Kanhasaiya - Adjoining - E
Nearest River	Ghoda Pachar N - 0.10km - E Ajnar N - 5.0km - SSW
Nearest Lake/ Ponds/Nalla	Ghoda Pachar water Reservoir ó 1.75km ó S Hataikheda Water Reservoir - 5.0km - SW
Nearest Hill Ranges	None within 10km radius

Statement of Area

01	Total Land Area	106.15 Hectares (1061500 SQ.M)
02	Permissible ground floor coverage	30%
03	F.A.R Permissible	1:1
04	Max. Height permissible	18.0 M Proposed Max. 10 M
05	M.O.S Front Rear Sides	12.0 M 6.0 M 6.0 M 6.0 M
06	Proposed ground coverage	38145.16 SQ.M (3.59%)
07	Area under Roads	65928.43 SQM (6.21%)
08	Area under organised green	30631.53 SQM (2.88%)
09	Area under open parking	14075 SQM (1.33%)
10	Area under activity	547192.11 SQM (51.54%)
11	Area under landscape	90434.38 SQM (8.52%)
12	Total Built up Area	59383.84 SQ.M
Rest of 25.93% i.e 275246.95 SQM is under forestation and patrolling road along boundary.		

Source Of Water Supply - Water supply shall be made by GhodaPachar reservoir . Letter in this regard has been given by the irrigation department

A.	Total water demand	in m3/day
1)	Domestic Water Demand	
(i)	Total Potable Water Demand	159.68
(ii)	Total Flushing Water Demand	47.94
	Total Fresh Domestic Water Demand	111.74
2)	Total Horticulture Water Demand (for organised green)	92.00
	Grand Total of Water Demands	203.74
B.	Total Available Treated Effluent for Recycling	
1)	Total Sewerage Generated (Total Domestic Demand X 0.8)	127.74
2)	Total Treated Effluent Water Available from STP for Recycling (90%)	121.35
	Total of Available Water for Re-use	121.35
C.	Total Utilized Treated Effluent	
1)	Total Amount Re-Used for Flushing Water Purpose	47.94
2)	Total Amount available for Horticulture	92.00

Environment Management Plan

Water Environment

The construction activities of Training Institute will be carried out in a phased manner. The following measures will be implemented to mitigate the impacts of construction activities on the surrounding facility

- É The construction activities shall be carried out in the dry season
- É Prevention will be made to spread of contaminated water by installing temporary barriers of G.I sheets.
- É Check dams will be provided to prevent construction runoff from the site
- É Wastewater generated from temporary labor tents will be treated in mobile toilets.
- É To prevent surface and ground water contamination by oil/grease, leak proof containers will be used for storage and transportation of oil/grease. The floors of oil/grease handling area will be kept effectively impervious.
- É The vehicle maintenance area shall be located in such a manner so as to prevent contamination of ground water by accidental spillage of oil. Unauthorized dumping of waste oil shall be prohibited.
- É Fire hydrants needed shall be provided at places vulnerable to fire and explosion.
- É Sites of deposition of building material wastes shall be cordoned. The open drains carrying waste water shall be covered with concrete slabs to prevent the dust fall due to wind erosion and shall be collected in cemented trenches for reutilization to a greater extent.

During Operation

Storm Water Management:

The quantity of storm water generated from the campus will constitute runoff from buildings, roads and paved areas. Contamination of storm water is possible from the following sources:

- É Diesel and oil spills in the diesel power generator.
- É Oil spills and leaks in vehicle parking lots.
- É Leachate generated from the waste.

This will be prevented by

- É Regular inspection and cleaning of storm drains.
- É Covering of waste storage areas.
- É Secondary containment and dykes in fuel/oil storage facilities.
- É Conducting routine inspections to ensure cleanliness.
- É Preparation of spill response plans, particularly for fuel and oil storage areas.
- É Good housekeeping in the above areas.
- É Regular inspection of storm water drainage system , which are proposed to be connected with the existing and proposed water retaining structures.
- É Water Requirement

The water requirements for the project will be met through Ghoda Pachad Water Reservoir. The wastage of water shall be minimized by a combination of water saving devices and other domestic water conservation measures. Some of the measures as proposed are given below:

Wastewater Management

- É To reduce the total water requirement, reduce the dependability on municipal and ground water sources, it is proposed to adopt recycling of the treated effluent from Sewage Treatment Plant for the purpose of irrigation, street washing, flushing, HVAC , and any other low end uses.
- É Sewage Treatment System based on conventional has been proposed and located strategically.
- É It is estimated that 251.68 KLD water is required per day for the domestic and other activities, out of which 121.35 KLD of treated water will be used for flushing, horticulture purposes etc. Detention lake/pond water for shall be used to supplement the horticulture need.
- É Use of water efficient plumbing fixtures (ultra flow toilets & urinals, low flow sinks, water efficient dish washers and washing machines).
- É Leak detection and repair techniques.
- É Awareness Campaign for reduced water use by residents.

- É Metered water consumption.
- É Use of drip irrigation system.
- É Grouping of plants with similar water requirement.
- É Use of low volume and low angle sprinklers for greens.
- É Provide controllers with adjustable watering schedules.
- É Rain Water Harvesting
- É The rainwater shall be diverted from the rooftop using rain water pipes to the surface/underground drainage network. The entire area shall be sub divided for recharging structures. It has been proposed to provide de-silting tanks and recharge wells for the desired purpose. The rainwater will be diverted into the de-silting tank to remove impurities and the outflow of the de-silting tank will be taken into the recharge well.

STP Details

Capacity of Sewage Treatment Plant

Average water supply per day 160 klpd

Average sewage generated per day 85% of water supply 136 klpd

ST Plant capacity provided 150 klpd

Average sewage generated per hour $136/24 = 5.67$ cum/hr

Peak factor = 3

Design flow capacity (maximum)= $5.67 \times 3 = 17.00$ cum

Treatment Scheme

The STP is of modular construction and the treatment process will consists of four stages: Stage 1: Primary Treatment, Screen Chamber, Oil & Grit Trap, and sewage collection tank.

Stage 2: Secondary or biological treatment, Aeration Tank, Secondary Clarifier.

Stage 3: Tertiary treatment - Filter Feed Tank, Pressure sand Filter, Hypo Dosing System.

Stage 4: Sludge Treatment Sludge Dewatering System Treatment Scheme:

The Sewage Treatment Plant will be designed to treat a sewage quantity of 150 cu.mt./day having characteristics as mentioned above.

Solid Waste And Hazardous Waste Management - The solid waste generated due to the proposed project will be managed systematically. Sets of Twin bins of 200 l capacity each will be provided at the strategically locations at hostel, academic building, canteen, staff quarters etc. The waste collection frequency will be daily.

Details of solid waste generation

Maximum quantity of solid waste generation from the project will be 607.3 kg/day. (Source: As per manual on Norms and standards for large construction projects, by MoEF, Chapter 5)

- É Segregation at Source: The contractor shall be responsible for segregating waste generated into the biodegradable (organic) and non-biodegradable (inorganic) waste.
- É Door to Door collections System: Segregated solid waste shall be transported from each door to the depots/bins provided at suitable distances within the campus as stated above. Organic and inorganic wastes shall be collected separately.
- É Transportation up to Final Disposal Site: Transportation by tipper up to final disposal site shall be ensured day-to-day by the contractor appointed for the same.
- “ Details of Hazardous waste

Hazardous waste from campus will consist of waste oil from DG sets, resin from WTP. The entire volume of the hazardous waste shall be disposed off at TSDF, Pithampur by the environment cell.

Details of Hazardous Waste Generation				
SN	Waste Category No.	Description of Haz. Waste	Quantity Per Year	Treatment Disposal
1	5.1	Used Oil	5000 lit	Given to re-processor authorized by MPPCB/MoEF

2	34.2	Resin	500 kg	Given to approved TSDF
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Environmental Management Plan-Air Environment

During Construction Phase

- The main source of air emissions during this phase is anticipated is dust emissions from material loading and unloading, site development activities and vehicular movement. However the dust generated during the construction phase will be considerably reduced by localized meteorological conditions. The impacts of other pollutants such as SO₂, NO_x and CO due to operation of mechanical equipments are expected to be negligible and thus no major control measures are required. The following procedural changes to construction activities are suggested to reduce vehicular emissions:
- Idling Time Reduction - Construction equipment is commonly left idling while the operators are on break or waiting for the completion of another task. Emissions from idling equipment tend to be high, since catalytic converters cool down, thus reducing the efficiency of hydrocarbon and carbon monoxide oxidation. Existing idling control technologies, which automatically shut the engine off after a preset time can reduce emissions, without intervention from the operators.
- Improved Maintenance - Recognizing that significant emission reductions can be achieved through regular equipment maintenance, contractors will be asked to provide maintenance records for their fleet as part of the contract bid and at regular intervals throughout the life of the contract.

During Operation Phase

- To mitigate the impact of pollutants from diesel generator sets and vehicular traffic during the operational phase of the site the following measures are recommended for implementation:
- Diesel generator set emission control measures;
- Greenbelt development.
- Diesel Generator Set Emission Control Measures: Adequate stack height of 30 mt will be provided to each stack of DG set to keep the air pollutants well within the prescribed limits; hence no additional emission control measures have been suggested.

Greenbelt Development: Increasing vegetation in the form of greenbelt is one of the preferred methods to mitigate air pollution. Plants serve as a sink for pollutants, act as a barrier to break the wind speed as well as allow the dust and other particulates to settle out there. It also helps to reduce the noise level to some extent. Dense plantations will be developed along the terminal stations.

Water spraying through sprinkling system may be planned for the filed activities . It may be planned before movement of officers to the fields . It may also be planned before the schedule of horse riding.

(C) Traffic Movement

For vehicles adequate space for smooth movement and parking shall be provided at the proposed site to avoid any congestion and idling state emissions.

- ~ Proposed project will provide ample parking as per norms in the stilts and open.
- ~ Access through the 30 meter wide ROW from two number of entry points to site will be provided. Training building and residential area will have 9 mt and 7.5 mt MOS as per requirement of MPBVR 2012.
- ~ The internal zone within the plots will be paved and pedestrian friendly design.
- ~ Separate entries and exits for smooth movement of traffic through adequate traffic signage.
- ~ Plantation shall be provided at roadsides and open spaces with the specific species to attenuate dust and cyclonic winds.
- ~ The ambient air quality shall be monitored regularly to ensure that the activities at the site are not polluting the ambient environment.

Environment Management For Biological Environment

É Ornamental trees with spreading branches, shade giving with colorful flowers for visitors/residents to relax and suitable patches of lawns, rockery with cactus and other small flowering xerophytic plants shall be planted. Out of the proposed development area around 12.10 ha areas

shall be used for parks and green spaces with various character in the Training academic, Hostel and Residential area. The campus will have plazas and pedestrian spine interspersed with maintained greens. The Hostel will have local level sports fields and activity greens apart from visual greens. The residential area including the faculty housing and the studio apartments will house recreation greens, parks for all age groups and tot-lots for children. These would be positioned according to the activities surrounding the areas within the campus. Rows of trees are proposed around vigilance path around the boundary wall.

Energy Conservation

It was reported that energy conservation program will be implemented through measures taken both on energy demand and supply sides. Energy conservation will be one of the focuses during the project planning and operation stages.

Parking Management

Total Parking Required - 537 P.C.U ,
P.C.U. Provided - 563 P.C.U

Fire & Safety Measures

- Fire hydrants shall be provided all around the buildings.
- Walls enclosing lift shafts shall be fire resistant for 4 hour.
- Landing doors \ will be fire/ smoke resistant.
- Electrical meter room shall be on the ground floor and it will be adequately ventilated. It will also have a fire resistant door.
- The lighting of the escape route will be on independent circuit with power backup.
- Fire fighting and fire alarm provided in the building.

During construction phase:

- Fire protection equipments like sand buckets and extinguishers will be installed at suitable place.

During operation phase:

- Static tank (underground) and overhead tank for fire.
- Landing valves with hose reels within the complex.
- External hydrant all around the building & yard.
- Automatic sprinkle system will be provided in building (1 sprinkler/12 m)
- Pumping arrangement system- riser system with pressure pump, auto operation with pressure switch.
- Staircases/lifts pressurization/ smoke extraction system.

S. N	Head	Capital cost (approx.) (in lacs)	Recurring cost (approx.) per annum (in lacs)
1	Air pollution monitoring	Nil	0.75
2	Water pollution monitoring	0.75	0.90
3	Noise pollution monitoring	Nil	0.15
4	Environmental management	2.50	1.0
6	Plantation at Site	5.0	0.50

After deliberations committee found the submissions satisfactory and acceptable hence the was recommended for grant of prior EC subject to the following special conditions:

1. Mobile toilets / latrines shall be provided for the site-workers during construction phase.
2. Common toilets / latrines shall be provided for general visitors / service providers during operation.
3. Separate facilities shall be provided for the two segments of the project.
4. Adequate Parking space shall be provided such that no vehicles are parked on road sides and free movement of fire-tenders is ensured in case of fire emergency.
5. Grit-chamber has to be provided essentially in the STP.
6. Fresh water requirement for the project shall not exceed 111.74 KLD.
7. No ground water shall be used as proposed.
8. Use of Photovoltaic cells (Solar energy) in common areas to be taken up.

9. Press-filter dried STP sludge and the MSW shall not be stored at site for more than 48 hours; accordingly space of appropriate size shall be developed at suitable location within the project premises.
10. Appropriate green area including peripheral plantation around the the project boundary shall be taken up along with other activities.
11. Appropriate play spaces shall be developed in the project.
12. Clearances / Pre- Clearances shall be obtained as applicable.
13. All the directions issued by Honøble Supreme Court of India/National Green Tribunal/Ministry of Environment, Forest & Climate Change, New Delhi from time to time shall be applicable.

Meeting ended with thanks to the Chair and the Members.

[R.B. Lal, Chairman]

[A.P. Srivastava, Member]

[Dr. Mohini Saxena, Member]

[K.P. Nyati Member]

[Manoj Pradhan, Member]

[Dr. Alok Mittal, Member]

[Dr. U.R. Singh, Member]

[Dr. Alok Mittal, Member]

[Rameshwar Maheshwari, Member]

[Manohar K. Joshi, Member]

[A.A. Mishra, Secretary]

[Dr. Srinivasan Krishnan Iyer,
Member]