

# MINUTES OF STATE EXPERT APPRAISAL COMMITTEE

141<sup>st</sup> MEETING 10<sup>th</sup> September 2013

The meeting conducted on 10<sup>th</sup> September 2013 was presided over by Shri S.C. Jain. Following members attended the meeting-

1. Shri K.P. Nyati, Member
2. Dr. MohiniSaxena, Member
3. Prof. V. Subramanian, Member and
4. Shri R.K. Jain, Member Secretary

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

**Consideration of the Projects – Following projects were taken up for deliberations one by one:-**

- 1. Case No. – 563/2010 M/s Khajuraho Minerals, Post Box No. 25, Toria House Tehsil & Distt. Chhatarpur-(M.P.) Pin – 471001** Stone quarry 11.00 ha at village Bodoar, Teh- & Distt- Chhatarpur-(M.P. ) Capacity 6 1,50,000 MTA. ToR issued vide letter no 536 dt. 20/07/10. **EIA Presentation** Env. Consultant : GRC I. (P) Ltd. Noida (U.P.)

This is a mining project comprising lease area of 11.00 Ha with proposed production capacity of 150000 MTA. The case was earlier scopped by the SEAC and TOR was issued for the project to carry out EIA and prepare EMP vide letter dated 20/07/2010. EIA was forwarded by SEIAA to SEAC for appraisal. The case was presented in the meeting by the PP and his consultant which reveals following:

#### Background of the Project

- É M/s. Khajuraho Minerals was sanctioned Quarry lease by State Govt., vide letter no. 4051/Khanij/Na.Kra./2002 dated 02-11-2002. The quarry lease deed was executed on 30.01.2003 and registered under rule 26 of MP Minor Mineral Rule on 05.02.20 03 for 10 years. The lessee has applied for renewal of quarry lease for further 10 years period.
- É Mining plan of this project was approved by Director DGM, Govt. of Madhya Pradesh.
- É The proposal is for the production of 1,50,000 TPA of stone.
- É The honorable MPSEAC has issued project TOR vide letter No: **536/PS-MS/MPPCB/SEAC/TOR (60)/2010** Bhopal, dated 20th July 2010. Committee has extended the TOR for one more year vide its letter no. 766/PS-MS/MPPCB/SEAC/TOR (102)/2012, Bhopal, dated 11<sup>th</sup> December 2012
- É Environmental Study: Oct. to Dec. 2012
- É Public Hearing for the project was completed on 11<sup>th</sup> July 2013.

#### Location & accessibility

Location of mining lease area	Village : Budore, Tehsil : Chhatarpur, District : Chhatarpur State : Madhya Pradesh
Geographical Co-ordinates	Latitude : 24°49'45.7" to 24°50'01.0"N Longitude : 79°32'58.6" to 79°33'01.8"E
Total Mining Lease area	11.0 ha
Type of lease area	Government Land (Barren waste land)
Nearest Habitation	Budore at 1.0 km in West
Nearest Railway Station	Khajuraho Raillyway Station at 40 kms in East
Road Connectivity	The lease area is approachable from district headquarter Chhatarpur via Bagota and Budore village on NH-86 upto Budore Tigaila which is 9 km from Chhatarpur and then 3 km on Budore fair weather road.

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Altitude of the Site	315-350 m AMSL
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## Air pollution control measures

### Mines

- É Wet drilling arrangements will be made.
- É Use of Personal Protection Equipments (PPE) like dust masks, ear plugs etc. by the mine workers.
- É Rock breaker will be used for breaking over size boulders in order to reduce dust and noise generation, which otherwise would be generated due to secondary blasting.
- É Controlled blasting and optimization of use of explosive energy will help in reducing the above emissions.
- É Regular water sprinkling on haul roads & loading points will be carried out

### Haulage

- É All haul roads will be maintained regularly and will not be blocked or obstructed for any villager/passersby.
- É Avoiding over filling of tippers and consequent spillage on the road.
- É Ore carrying trucks will be effectively covered by tarpaulin.

## Noise pollution control measures

- É Proper maintenance, oiling and greasing of machines at regular intervals will be done to reduce the generation of noise.
- É Adequate silencers will be provided in all the diesel engines.
- É Blast holes will not be overcharged.
- É Plantation along the sides of approach roads and mine area will be done to minimize the propagation of noise.
- É Personal Protective Equipments (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.
- É Periodical noise level monitoring will be done.

## Water Environment (Impact Assessment)

The mining operations being opencast, adverse impacts are likely to arise if proper control measures are not implemented. The following are the areas where adverse impacts are envisaged in respect of surface water quality:

- É Wash-off from the dumps
- É Soil Erosion

## Water Pollution Control Measures

- ~ The soil will be used as blanket on the worked out area of the pits for taking up afforestation.
- ~ As such no wash off from the dumps or soil erosion is expected.
- ~ Bunds will be formed around the mine lease to restrict the water run off with pot holes.

## Post Land use Pattern

S N	Particulars	Present land use	End of the 5 <sup>th</sup> year	Conceptual land use pattern
1	Excavated pit	1.0	2.75	(9.95)
2	Green belt	0.50	1.05	1.05
3	Reclaimed & Rehabilitated by plantation	-	(1.0)	9.95
4	Rehabilitated by water reservoir	-	-	Nil
5	Road	0.25	0.25	-
6	Undisturbed area	9.25	6.95	-
		<b>11.0</b>	<b>11.0</b>	<b>11.0</b>

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## Details of minerals transportation and its impact

### During Mine operation

Total Capacity of mine	: 1, 50,000 TPA
No. of working days	: 295 days
Truck Capacity	: 10 tonnes approx.
No. of trucks deployed/day	: 51 trucks approx
No. of PCU added/day-both ways	: 100 x 2 x 4.5 = 459

Therefore 100 trucks will be deployed for Mineral Transportation.

## Five year stage-wise Conceptual plan

SN	Particulars	Present land use	End of the 5 <sup>th</sup> year	Conceptual land use pattern
1	Excavated pit	1.0	2.75	(9.95)
2	Green belt	0.50	1.05	1.05
3	Reclaimed & Rehabilitated by plantation	-	(1.0)	9.95
4	Rehabilitated by water reservoir	-	-	Nil
5	Road	0.25	0.25	-
6	Undisturbed area	9.25	6.95	-
<b>Total</b>		<b>11.0</b>	<b>11.0</b>	<b>11.0</b>

## Air Monitoring findings

- " Total predicted 24-h maximum GLC of PM<sub>10</sub> was 98.6 µg/m<sup>3</sup> occurred at 20 m south of the project site after superposition of base-line value 83.3 µg/m<sup>3</sup> over the incremental 15.3 µg/m<sup>3</sup> due to combined impact of blasting, loading and unloading and transportation over the haul road.
- " Meteorological data under worst case scenario providing 24-h maximum average GLC.

## Public Hearing and other issues

- No R & R is involved. No habitation exists within ML area so no compensation is required to be paid.
- No adverse comments were observed in the Public Hearing. PP has responded to various issues such safe blasting, maintenance of village roads etc. satisfactorily.

The CSR budget in view of the Public hearing issues as proposed by the PP is as following:

Scheme	Capital Cost (in Rs)	Recurring Cost (in Rs)
Drinking water facility	75,000	40,000
Rest shelter	50,000	20,000
Sanitation (Urinal and Toilet )	75,000	40,000
<b>Total</b>	<b>2,00,000</b>	<b>1,00,000</b>

PP was asked to submit activity wise budget break-up for the propose CSR plan, the same was submitted by the PP during the meeting itself.

The EIA, EMP 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:

- All mitigation measures to be installed in the crusher as may be suggested by the MPPCB.
- The village road shall be maintained by the PP for which PP has reserved a fund of Rs 1.0 Lac.
- All CSR activities shall be taken up in coordination with the Gram Sabha and the Local Administration.

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- Garland drain shall be constructed and connected to the settling tank to avoid run-offs and silt from the site into the nearby water body.
- No where in the Lease area the depth shall exceed 5-6 meters.
- At least 7-8 meters thick green belt shall be developed all around the lease area.
- Total area under green cover after the mine life shall be 11.0 Ha.

**2. Case No. – 1705/2013 Shri Raghuraj Singh Chourdiya S/o Shri Fateh Singh Chourdiya, R/o Rajmandir Complex, Neemuch M.P. 400 055 ToR.** Kandaka Limestone Mine at Survey No. 6 142/2, Village - Kandaka, Tehsil 6 Jawad, Distt- Neemuch (M.P. ) **Lease Area – 5.00 ha.** Capacity 6 5,00,000 MT/Annum. **Env. Consultant: Not disclosed.**

Neither the Project Proponent 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. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

**3. Case No. - 601/2010 M/s Smt. Renu Rathore 101, Sanjivani Nagar, Garha, Distt- Jabalpur- (M.P.) EIA Presentation.** Bagrai Dolomite Mine Lease Area - 10.31 Ha. Khasra No. - 291,292, 293, 294, 295, 296,302,303,303,304,305, 306,336, at Village Bagrai, Teh-Patan, Distt. 6 Jabalpur - (M.P.) **Env. Consultant: Creative Enviro Services Bpl. (M.P.)** ToR issued vide letter no.65 dt. 11/02/11.

This is a mining project in an area of 10.31 Ha. The minerals proposed for mining is Dolomite with production capacity of 5000 TPA . The project falls under category B-1 of the schedule of EIA Notification and requires prior EC under the provisions of said notification. The application of the PP was forwarded by the SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP for the project. The EIA / EMP were forwarded by SEIAA and the same was presented by the PP and his consultant. The salient features and the locational aspects were presented by the PP and his consultant before the committee in 141<sup>th</sup> meeting dated 10<sup>th</sup> September, 2013.

#### Location and Approach

É Site	:	Village - Bagrai
É Tehsil	:	Patan
É District	:	Jabalpur
É Location	:	Toposheet No. 64A/3
É Land Use	:	Forest land
É Khasra No	:	291, 292, 293, 294, 295, 296, 302, 303, 304, 305, 306, 336
É Latitude	:	23 <sup>00</sup> 07'10.4" to 23 <sup>00</sup> 07'24.5" N
É Longitude	:	79 <sup>00</sup> 45'40" to 79 <sup>00</sup> 45'58" E
É Road Connectivity:	:	Bheraghat- Lalpur-Bagrai Road

#### Public Hearing Details

- ❖ Public hearing was conducted on 03.09.2011, the Parisar of Gram Panchayat Office at village Bagrai by ADM, Jabalpur
- ❖ 77 peoples have attended the hearing and observed that people of nearby areas are in favour of mining project as they will get employment from it. Ten of them registered their opinion in writing.
- ❖ It was treported that the issues raised were duly addressed and clarified
- ❖ No adverse comments have been observed / received during the Public Hearing.

Sr no	Name & Address	Comments	Submission of PP
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1	Kallu Barman, Village Bagrai	My agricultural land is situated adjoining to this mine. Mine owner will be responsible for any damage caused to my irrigation borewell	Mining will be done at 0.50km away from the said Borewell. There is no chance of any damage to borewell. However we shall compensate the damage if any, which is not envisaged.
2	Munna Shripal village- Bagrai	The villagers of Bagrai village should not face problems due to mining activity	The labourers of the village will get employment in mine and for transportation purpose the existing road towards Lalpur village will be used in place of road passing through Bagrai village. Also under CSR the mine management will carry out all the public interest works regularly. In this way we assure that no problem will arise due to mining activity.
4	Gowrdhan Rai, Sarpanch, Gram Panchayat, Bagrai	<p>1. Which transportation rout will be used by mine? We have information that the existing rout towards Lalpur village will be used</p> <p>2. What benefit will gram Panchayat get due to mining in Panchayat area?</p> <p>3. The mining will be carried out as per rules within sanctioned mine area</p> <p>4. Mine should pay tax to gram Panchayat for carrying out business within Panchayat area. So gram Panchayat could benefit.</p>	<p>Yes. The existing road towards Lalpur village will be used for transportation purpose.</p> <p>For public beneficiation mine owner will arrange a weekly doctor visit to the village, six monthly health camp, active participation and support during religious acts and development of wrestling facilities in the village.</p> <p>The mining will be carried out as per direction of the entire department and we will comply all the provision of deferent Acts applicable with us.</p> <p>The question in not answerable to us</p>

### Reported Mineral Reserve

#### Geological reserves as per UNFC classification

Classification	Code	Quantity Mt	Grade
1	2	3	4
Total mineral reserve		<b>152559</b>	Pesticide & detergent industry
Total resource		<b>174502</b>	Pesticide & detergent industry
<b>A. Mineral reserve</b>			
(1) probable mineral reserves	121	91573	
(2) probable mineral reserves	122	60986	
<b>B. Remaining resources</b>			Pesticide & detergent industry
• prefeasibility mineral resources	221	8348	
• prefeasibility mineral resources	222	5565	

#### Production schedule –

- Mining capacity ó 5,000 TPA.

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➤ **Year wise development/production during the first five years**

Year	Overburden in m3		Saleable Dolomite in T	Ore to overburden ratio
	Soil	Waste		
1 <sup>st</sup>	120	84	4229	1:0.05
2 <sup>nd</sup>	120	84	4229	1:0.05
3 <sup>rd</sup>	120	84	4229	1:0.05
4 <sup>th</sup>	120	84	4229	1:0.05
5 <sup>th</sup>	120	84	4229	1:0.05
<b>Total</b>	<b>600</b>	<b>420</b>	<b>21145</b>	<b>1:0.05</b>

**Mining Method**

Opencast Mining Method	<p>“ Proposed mining operations such as development, drilling, winging of ore, loading and transport etc. will be carried out by opencast semi mechanized method with deployment of hand tools i.e. spades, hammer, crowbar, chisel and JCB etc with drilling.</p> <p>“ The mining operations are proposed at the eastern side from top RL 370 to bottom 367 RL with one development cum production bench and the height of the bench will be kept 3.0 m for 1<sup>st</sup> to 5<sup>th</sup> year</p> <p>“ The recovery of Dolomite will be 95%. During the ensuing the five-year 3000 m<sup>2</sup> area (average) will be developed with RL of 367m (avg) i.e. average 3.0 m deep with a rectangular shape</p>						
Water Consumption (Avg.)	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Domestic use</td> <td style="text-align: right;">6 02kld</td> </tr> <tr> <td>Dust suppression</td> <td style="text-align: right;">6 04kld</td> </tr> <tr> <td>Green belt development</td> <td style="text-align: right;">- 2kld</td> </tr> </table>	Domestic use	6 02kld	Dust suppression	6 04kld	Green belt development	- 2kld
Domestic use	6 02kld						
Dust suppression	6 04kld						
Green belt development	- 2kld						

**Details of Existing Pits**

Presently no mining activity has been carried out. During the prospecting period only 0.0251ha area has been excavated. Details of existing pits are given as below;

Pit/Working pit	Size in sq. m	Avg. depth in m
Quarry-1	115	2
Quarry-2	136	1.5

**Salient features of the project:**

S. No.	Particulars	Details
1	Type of Mine	Open Cast
2	Mining Lease Area	10.31Ha
3.	Mineable Area	1.8 Ha
4.	Existing Pits & Quarries	0.0251Ha
5.	Existing Dumps	Nil
6.	Road	0.0140ha
7.	Mineral Storage	Nil
8.	Plantation	Nil
9.	Recoverable Reserve	152559tonnes
10.	Method of mining	Semi- mechanised
11.	Ultimate Depth of Mining	5m bgl (357mRL)
12.	Ultimate Pit Slope	45°
13.	Expected Life of Mines	31years
14.	Lease Period	30 year
15.	Thickness of soil	

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	Minimum	0.5 m
	Maximum	1.0 m
16	Stripping Ratio	1:0.05
17	Mode to transportation	Road
18	Dumps area in lease period	0.1449ha
19	pit in lease period	1.725 ha
20	Reclaimed area in lease period	Nil
21	Plantation in lease period	3.5ha
22	Water reservoir	0.5ha
23	Average mRL	386-362AMSL
24	Ground water table	
	Monsoon period	40m bgl (322mRL)
	Dry month	55m bgl (307mRL)

**Conceptual plan of the project**

Items	Existing	Conceptual period
<b>Total lease area</b>	<b>10.31ha</b>	
Ultimate depth of mining	2m	5m bgl (357 AMSL)
Ultimate pit slope	45 degree	45 degree
Area under dumps	Nil	0.1449 ha
Area under pits	0.0251 ha	1.725 ha
Area to be reclaimed	Nil	Nil
Infrastructure & Road	0.014 ha	Nil
Mineral storage	Nil	Nil
Plantation	Nil	3.5ha
Water body	Nil	1.5 ha

**Environmental setting of the project**

S. No.	Particulars	Details
1.	Locations	
	Village	Bagrai
	Tehsil	Patan
	District	Jabalpur
	State	MP
2.	Latitude	23 <sup>0</sup> 07'10.4" to 23 <sup>0</sup> 07'24.5" N
	Longitude	79 <sup>0</sup> 45'40" to 79 <sup>0</sup> 45'58" E
3.	Altitude	386-362 m AMSL
4.	Nearest National/state Highway	NH-12 - 5.60km - N
5.	Nearest Railway Station	Bheraghat - 6.5 km - NE
6.	Nearest Airport	Jabalpur - 30.0 km
7.	Nearest Tourist Place within 10km radius.	Bheraghat - 5.0km - NE
8.	Archaeological Important Place within 10km radius.	None
9.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	<b>None</b>
10.	Reserved / Protected Forest within 10km radius (Boundary to boundary distance)	Semra RF - 10.0km - S
11.	Nearest major city with 100000 population within 10km radius	Nil
12.	Nearest Town / City within 10km radius	Bheraghat - 5.0km - NE
13.	Nearest Village	Bagrai - 1.0 km - W

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14.	Nearest River	Narmada River	- 0.6km ó NNW
15.	Nearest Nalla/water reservoir	Canal	- 4.25km - S
		Seasonal Nalla	- 0.15km -NE
		Seasonal Nalla	- 0.7km - E
16.	Nearest Hill Ranges	No	
17.	Other mines within 2km radius	4no.	
18.	Industry within 10km radius	None	

## Environment Management Plan:

### Air pollution control measures

Following air pollution control measures will be taken to minimize negative impact due to mining activity.

1. Dust suppression over the roads by carrying out water sprinkling.
2. Haulage of ROM to the proposed siding will be done by dumper. After excavation, mineral will be transported to the end users by hired dumper (10t capacity). The approach road from lease area to PWD road is about 1.5km, which is kuchha road and no habitations have been observed along the said kuchha road. Dust generation due to transportation will be for limited period and extent to small area. During the vehicular movement water spraying has already been carried out regularly by tanker fitted tractor by other mines owners. Same road will be used by lessee.
3. Green belt development along the roads, lease periphery and benches.
4. Double layer Green belt development will also be proposed in Narmada River direction
5. Proper maintenance of haulage roads, which shall be used for transportation of material;
6. The mineral reject is advised to use for maintenance of road, which will prevent the fugitive emission.

### Water Pollution Control Measures

Following measures will be taken to avoid contamination and siltation problem.

- " Narmada River and two seasonal nalla observed in NNW, NE and E direction at a distance of 900m, 150m and 700m respectively. The nalla is seasonal only.
- " No surface water course has been observed in lease area.
- " The base line quality of ground and surface water are found within the acceptable norms.
- " It is proposed to provide garland drain at the foot of the small hillock in north western direction to prevent the flow of silt towards the Narmada River direction. Length & depth of garland drain will be approx 600m and 0.5m.
- " The exhausted portion of mined out area i.e. 1.5 ha at core zone is proposed to be rehabilitated by creation of water body. The same will be useful for nearby villagers for agricultural purposes.
- " Mine drainage system is governed by garland drains around mining pit and dumps which joins the settling tank.

### Noise Pollution Control Measures

1. Acoustic treatment for rotating equipments
2. Compulsory use of personnel protective equipment (PPE) such as ear plugs for the workers
3. Installation of noise generating machinery, strictly in compliance with the recommendations of the manufacturers. This would ensure an installation free from vibration and exhaust leaks which are also major contributors to increased noise levels
4. Provision of insulating caps and aids at the exit of noise source on the machinery.
5. Shock absorbing techniques to reduce impact
6. Use of physical barriers and green belt development around the mine to restrict the noise from going outside the proposed mine boundary during operation

### Solid Waste Management

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- " During the first five years, 600 cubic meter soil and 420 cubic meter intercalated waste will be generated and soil will be duped in eastern barrier zone area.
- " Generated mine waste will be used for construction of retaining wall and haul road.
- " During the conceptual period, 17250 cubic meter soil and 2878 cubic meter intercalated mine waste will be generated, which will be dumped in eastern part of lease area, which will cover about 0.1449ha area, which will be stabilized by grasses & trees.
- " During the lease period no backfilling is proposed.
- " Retaining wall and garland drain is proposed around the dump and towards the River Narmada to retain the bolder/ loose particle.

Year	Overburden in m <sup>3</sup>	
	Soil	Waste
1 <sup>st</sup>	120	84
2 <sup>nd</sup>	120	84
3 <sup>rd</sup>	120	84
4 <sup>th</sup>	120	84
5 <sup>th</sup>	120	84
<b>Total</b>	<b>600</b>	<b>420</b>
6 <sup>th</sup> to mine life	17250	2878

### Budget for Environmental Protection

S. No.	Head	Approximate Capital cost (Rs. In lacs)	Basis	Approximate recurring cost per annum (Rs. in lacs)	Basis
1	Air pollution monitoring	3.0	Cost has been include water spray arrangement	1.0	Expected cost includes regular monitoring by approved third party
2	Water pollution monitoring	2.0	Cost has been include cost of septic tank, garland drain, (Civil , mechanical and piping work)	0.6	Expected cost includes regular monitoring by approved third party
3	Noise pollution monitoring	Nil	Only Ambient air noise monitoring will be done	0.2	Expected cost includes regular monitoring by approved third party
4	Solid and hazardous waste management	1.0	Capital cost will include cost of providing garland drain, settling tank & dump management	0.2	
5	Environmental Monitoring and management	-	-	2.5	Recurring cost would incur on hiring of consultants for environmental management and

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S. No.	Head	Approximate Capital cost (Rs. In lacs)	Basis	Approximate recurring cost per annum (Rs. in lacs)	Basis
					payment of various statutory fees to Regulatory agencies
6	Plantation at Site	1.0	Plantation in and around site	0.50	Maintenance of plantation

## Proposed CSR Budget

Sr. No.	Activity	Amount in Rs
1.	Provision of carpus fund for social /developmental activities like provision of infrastructure facility at school, fund for sports, religious activities etc as proposed by Village Panchayat	Rs. 100,000/- per year
2.	Free medical camp	Rs. 25000/- per year
3.	Scholarship in school going girls of Bagrai, Lalpur, Dharampura village for higher education (Two no.)	Rs. 10000/- per year

The EIA, EMP 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:

- Check dams shall be provided to avoid siltation of the near by water bodies.
- Lalpur road shall never be used for transportation by the PP in accordance to their commitment in the Public Hearing.
- PP shall compensate the damages (if any) caused to the Tube Wells of nearby residents due to mining activities of the PP.
- All CSR activities shall be taken up in coordination with the Gram Sabha and the Local Administration.
- Garland drain shall be constructed and connected to the settling tank to avoid run-offs and silt from the site into the nearby water body.
- Appropriate settling tank shall be developed towards Southern corner of the Lease Area.
- At least 7-8 meters thick green belt shall be developed all around the lease area.

**4. Case No. – 1676/2013 Shri Suraj Chhabaria, Executive Director, RC Fertilizer Pvt Limited, 181, A2, Maker Tower, Cuffe Parade, Mumbai-400005** for SSP/GSSP & Allied Blended Fertilizer Products, BRP & LABSA Plants at Khasra No.- 59-F, 61-A, 61-B, 61-C, 185 to 188, Village ó Meghnagar, Tehsil ó Meghnagar, Distt. ó Jhabua (M.P.) Proposed Production Capacity ó SSP/GSSP : 198000 MT/Y, Benification of Low Grade Rock Phosphate : 92000 MT/Y, Allied Blended Fertilizer Products : 49500 MT/Y, LABSA: 19800, Area ó 7.24 Ha., Env. Consultant: M/s Kadam Environmental Consultants, Vadodara (Guj.). **ToR**

This is a proposed fertilizer and Rock Phosphate benification plant. The integrated activity proposed in the project is covered under the provisions of EIA notification and mentioned as item 2 (b) [Mineral benification] and as item 5(a) [Chemical fertilizers] in the schedule of the notification, hence requires prior EC before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA

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and prepare EMP for the project. Case was presented by the PP and his consultant which reveals following:

- M/s. R C Fertilisers Pvt. Ltd. proposes manufacturing of Single Super Phosphate (SSP), Granulated Single Super Phosphate (GSSP) , Allied Blended fertilizer products, Beneficiation Rock Phosphate (BRP) and Linear Alkyl Benzene Sulphonic Acid (LABSA) at Meghnagar Industrial center, Jhabua, M.P.
- Proposed Fertilizer Project requires EC from SEAC (M.P.) falls under Schedule 5 (a) Category B and Schedule 5 (f) Category B as per the EIA Notification dated Sept. 14, 2006, amended till date.
- The plant is now to be set up on 7.24 ha of land in Industrial Growth Centre, Meghnagar.
- It does not attract general conditions.
- It will be a Zero Liquid Discharge Unit.

S N	Item	Details
1	Location	Plot No. : 185 to 188, 59-F, 61-A, 61-B, 61-C, Village : Meghnagar, Tehsil : Meghnagar, District : Jhabua,
2	Latitude & Longitude	22°54'54.80"N 74°33'45.68"E
3	Plot Area	7.24 Ha
4	Proposed Product	Single Super Phosphate(SSP) ,Granulated Single Super Phosphate (GSSP) , Allied Blended Fertilizer Products, Beneficiation Rock Phosphate (BRP) and Linear Alkyl Benzene Sulphonic Acid(LABSA)
5	Project Cost (INR)	60 Crores

S N	Road, Rail and Air	Distance in kms	Direction from Project site
1	Road: Ratlam - Jhabua SH-39A	0.45	N
2	Rail: Meghnagar Railway Station	2.51	WSW
3	Air: Devi Ahilya Bai Holkar Airport, Indore	130	ESE

## Product capacity

S No.	Name of product	Unit	Proposed Capacity
1	Single Super Phosphate (SSP)/Granulated Single Super Phosphate(GSSP)	MT/Y	1,98,000
2	Beneficiation Rock Phosphate (BRP)	MT/Y	92,000
3	Allied Blended Fertilizer Products	MT/Y	49,500
4	Linear Alkyl Benzene Sulphonic Acid (LABSA)	MT/Y	19,800

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After deliberations committee has approved the proposed TOR with inclusion of following points to carry out EIA study and prepare an effective EMP for the project:

- Copy of Notification for the Industrial Area where the unit is proposed.
- Separate water balance for each of the proposed products to be furnished in the EIA report.
- The project is proposed in two plots; how the transport and other activities shall be managed ó complete plan to be furnished.
- Ultimate disposal of rejects from the RP beneficiation plant giving mass balance of Raw RP viv-a-vis BRP & rejects to be provided.
- Uranium concentration in the raw material to reported along with the projected mass expected in the finished and intermideate products.
- Env. Data for the summer season has already been collected and the same can be used in the EIA report.

**5. Case No. – 1718/2013 M/s GMV Ltd. through Director Jaydeep Singh, 1st Floor, Vrindavan, 4, Malviya Nagar, Bhopal (M.P.) – 462003.** ò Ollanö of M/s GMV Pvt. Ltd., at Khasra No. ó 94, 106/1, 106/2, 107, 108, 109, 110 & 125 Village ó Katara, Tehsil ó Huzur, Distt. ó Bhopal (M.P.) Total Plot Area ó 47400 Sq. Mt. ( 4.74 ha. ) , Built up Area ó 46998.26 Sq. Mt. ( 3 blocks/Towers (G=10) having 440 nos unit for residential & 142 units for EWS (G+5). Env. Consultant: In Situ Enviro Care Bhopal. **Building Construction.**

This is a building construction project comprising plot area of 47400 m2 and total built-up area of 46998.26 m2. The project is covered under the provisions of EIA notification and mentioned as item 8(a) in the schedule of the notification. The case was presented by the PP and his consultant before the committee which reveals following:

#### Land details

Land used for òOLLANö project					
SNo	Khasra No.	Land Area (Hect.)	Land Area (In Revised layout)	Land Area (In developed layout)	Owner of the khasra By Jaydeep Singh (Director)
1	94	1.54	1.01	0.53	GMV Pvt. Ltd
2	106/1	0.91	0.91	0	GMV Pvt. Ltd
3	106/2	0.23	0.16	0.07	GMV Pvt. Ltd
4	107	0.4	0.4	0	GMV Pvt. Ltd
5	108	0.85	0.27	0.58	Global Co
6	109	0.43	0.43	0	GMV Pvt. Ltd
7	110	0.27	0.27	0	GMV Pvt. Ltd
8	125	1.47	1.29	0.18	GMV Pvt. Ltd
Total		6.1 Hect	4.74 Hect	1.36 Hect	

Name of the Applicant : òOllanö of M/s. GMV Pvt. Ltd.  
Name of the Proponent : Mr. Jaydeep Singh  
Designation : Director  
Total Area Of The Plot : 47400.0 Sq.mt  
Proposed BuiltóUp Area : 46998.26 Sq.mt  
Land Use : Residential  
Building Height : 30 m

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ROW : 24 m Wide Road

Total Net Fresh Water Demand : 251 KL  
Municipal Water Supply : 251 KLD  
STP Capacity : 350 KLD  
Solid Waste Generation : 1.21 TPD  
Power Demand : 3024 KVA  
Back Up Source : 380 KVA (D.G. Set ó 1 x 380 KVA)  
Total Unit : 582 nos.  
Type of Unit (Residential) : Number of 2 BHK - 22 Nos.  
Number of 3 BHK - 418 Nos.  
Number of EWS - 142 Nos.  
Railway Station : Habibganj Railway Station ó 8.5 Km away from site  
Air Port : Bhopal Airportó 26.5 Km away from site

## Statutory approvals obtained /Submitted

- T & CP approval-bhopal- SN 1296/LP130/19(3)/NGRANI/GKA/2011-13 DATED 19/07/2013
- Copy of registration colonizer- dated 26/04/2013
- Copy of colony development permission dated 01/03/2006
- Copy of fire fighting noc dated 27/07/2013
- Copy of nearest fire distance noc- dated 04/07/2013
- Copy of msw disposal consent from BMC ó S/N295/H.D/13 DATED 05/07/2013
- Copy of municipal water supply consent from bmc ódated 26/06/2013
- Copy of disposal of extra treated water consent from BMC - s/n293/h.d/13 dated 05/07/2013
- Copy of joint venture agreement letter
- Copy of memorandum and articles of associations
- Corpus fund letter along with an affidavit for creation of funds
- Tanker water supply agreement for construction phase

## Area statement

AREA STATEMENT			
1.	Total Land Area	47400.0 sq.m.	
2.	Area under 24 mt wide road	8048.1 sq.m.	
3.	Plot area for future development	10866.59	
4.	Net planning area	28485.31	100%
a.	Ground coverage area	5933.93 sq.m.	20.84%
b.	Green area	4890.80	17.2%
c.	M.O.S. and circulation	17660.58 sq.m.	62 %

Parking details- residential

Proposed built up area = 46998.26 sq.m.

Parking:- @ 1 ECS/100 Sq.m BUA = 46998.26/100

= 469.98~Say 470 Ecs.

Parking space:- @ 30 sqmt/Ecs in Covered area = 9936.48/30 = 331 ECS.

@25 sqm/Ecs in open area = 5083.15/25 sqm = 203 ECS.

Total Proposed ECS = 331 ECS + 203 ECS = 534 ECS

Required parking = 470 ECS

**Provided parking = 534 ECS**

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### Source of water supply

1. In construction phase we will take water supply form the private tanker suppliers .
2. The Main source of water supply in operation phase will be Municipal Water Supply. It will cater the domestic requirement whereas additional water requirement will be fulfilled by treated water from STP.

S. No.	Item Description	Residential
1.	Domestic Water Requirement	251 KLD
2.	Flushing Water Requirement	125 KLD
3	Landscaping & other uses	55 KLD
4.	Total Water Demand	431 KLD
5.	STP Capacity	350 KLD
6.	Available Treated Water through STP	315 KLD
7.	Used Treated Water	180.3
8.	Net Fresh Water	251 KLD

### Water balance details

S. N	Item Description	Number of Persons / Seats	Water Requirement / head (liters)	Total water Requirement (liters)
<b>A</b>	<b>Fresh Water Requirement</b>			
1	Apartments/Flats	2,200	90	198000
2	EWS	576	90	51840
3	Maintenance Staff	15	20	300
	<b>Sub Total of A</b>			<b>250140</b>
<b>B</b>	<b>Flushing Water</b>			
1	Apartments/Flats	2,200	45	99000
2	EWS	576	45	25920
3	Maintenance Staff	15	25	375
	<b>Sub Total of B</b>			<b>125295</b>
<b>C</b>	<b>Treated Effluent Water Requirement – Misc. Uses</b>			
1	Landscaping			25000
2	Misc. Other Uses			30,000
	<b>Sub Total of C</b>			<b>55,000</b>
	<b>Total water requirement (A+B+C)</b>			<b>430,435 Or says 431 KLD</b>

### Waste water balance details

S. No.	Item Description	Total water Requirement (liters)	Percentage of water to STP @ 85 % For Domestic and @ 100% for Flushing	Total water Requirement (liters)
	WASTE WATER TO STP			

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<i>A</i>	<i>Domestic water</i>			
1	Apartments/Flats	198000	0.85	168300
2	EWS	51,840	0.85	44064
3	Maintenance Staff	300	0.85	255
	<i>Sub Total of A</i>			<i>212619</i>
<i>B</i>	<i>Flushing Water</i>			
1	Apartments/Flats	99000	1	99000
2	EWS	25,920	1	25920
3	Maintenance Staff	375	1	375
	<i>Sub Total of B</i>			<i>125295</i>
	<i>Total waste water (A+B)</i>			<i>337914</i>
		SAY CAPACITY OF STP		350 KLD

### Fire protection

Precautions and Safety Measures are proposed against Fire Hazards

- Overhead static storage on each tower
- Down comer with hose reels and landing valves at each floor.
- Portable fire extinguishers on all levels
- Gas based Automatic Fire Extinguishing System for LT Panels.
- Ceiling Mounted Modular ABC Powder based Extinguishers for HT and Transformer Rooms
- Manually Fire alarm system
- Lightning protection system

### Quantification of Solid Waste

Facilities Provided	Waste Generation Norms		Basis of Assumption	Unit		Total Waste Generated (TPD)
Residential	0.4	Kg/capita/day	CPCB	2776	Persons	1.1104
Garden & Open Space	0.003	Kg/Sq m/day	Discussion with Horticulturist	3742	Sq.m	0.0112272
STP Sludge	250	Kg/MLD of wastewater treated	Manual for Sewerage and sewage treatment by CPHEEO	0.35	MLD	0.0875
Waste Oil	100	Liters/MW/year	Assuming one maintenance per year	3.024	MW	302.4 Liter
Total Waste Generated (TPD)						1.21
Total Biodegradable 55 % of total (TPD)						0.67
Total Biodegradable 45 % of total (TPD)						0.54

### SOLID WASTE

- Total solid waste generated will be around 1.21 TPD
- Biodegradable & Non-Biodegradable waste will be segregated at source in accordance with MSW (M&H) Rules, 2000.
- 100% Door to Door Collection system will be done by the maintenance staff.
- Hand driven carts shall deliver the MSW from residential blocks to storage bins and from storage bins to main waste collection point.

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- Each set will have bins of three colors with green bin for biodegradable waste, white for recyclable waste and black for other type of waste.
- The MSW collection centre will be at the gate of the campus where three covered bins of green, white and black color will be placed for collection from the campus and for final transportation for disposal.

## **Environmental Management Plan-air**

### **Construction Phase**

- Dust control plan
- Regular Maintenance of vehicles
- Proper ventilation system shall be provided to all part of the work areas of site.
- All dust producing construction materials will be transported with proper cover as tarpaulin.
- Regular sprinkling of water shall be done at site for dust suppression.
- Green belt development along road side to attenuate the effect of air pollution will begins from construction phase
- Large leaf plants will be use in tree plantation all around the project site and road side reduces the impact of the air pollution.
- Use of Ready mixed cement
- Reduce on site activities by Off-site fabrication of structural components

### **Operational Phase**

- Green belt along road side in different tiers to attenuate the effect of air pollution
- Provision of signage's for easy circulation of traffic.
- Provision for adequate parking space
- Use of low sulphur diesel for DG set.
- Provision of sufficient stack height for DG set.
- Use of back-up DG sets (acoustic enclosed) during power failure only.
- The green belt will be developed especially around dust generating areas.

## **Environmental Management Plan-noise**

### **Construction Phase**

- . Regular maintenance of construction equipments
- . Proper road network has been designed as per the prevailing guidelines for smooth operation of traffic; impact in noise level due to the operational traffic will be negligible.
- . Barricading of the construction area with high barrier
- . Job Rotation and Hearing Protection for workers

### **Operational Phase**

- . The landscape design along the periphery of the plot has been developed to achieve attenuation factor conforming to noise standards.
- . The open spaces inside the plot is suitably landscaped and covered with vegetation to reduce the impact of noise.
- . Provision of adequate parking space
- . Acoustic enclosure for D.G. Set
- . Use of D. G. set as alternate power supply in case of power failure which is a rare occurrence in this area.

## **Environmental Management Plan-water**

### **Construction Phase**

- . Leak proof containers for storage and transportation of oil/ grease.
- . RMC shall be used.
- . Impervious oil/grease handling area.
- . Provision of Drinking Water and temporary sanitation facilities for workers.

### **Operational Phase**

- . Treatment of sewage on site in STP.
- . Use of treated sewage water for Flushing & Landscaping.

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- . RWH and SWM scheme
  - " Rainwater from Roof top and terraces will be used for ground water recharging.
  - " SWM will be done with the help of well planned storm water drainage network as per BMC remarks.
- . Minimizing Water Consumption
  - " Use dual flush system, Auto flushing sensors for urinals
  - " Efficient Plumbing Fixtures

## Environmental Management Plan - Land

### " Construction Phase

- . Segregation of waste at source
- . Construction of temporary soak pits/ septic tank on site
- . Reuse of construction debris at the site itself for land leveling
- . Effective measures for prevention of leakage of oil

### " Operational Phase

- . Segregation of waste at source
- . Waste storage in well-designed containers/ bins
- . The sewage sludge from sewage treatment plant will be converted into an odorless soil conditioner and used as manure for gardening purposes.
- . Waste storage bins will be provided for wet and dry garbage. The same shall be segregated and stored in bins
- . Biodegradable and Non-biodegradable solid waste will be collected separately.
- . Non-biodegradable and Biodegradable solid waste would be handed over to authorized agency.
- . Recyclable inorganic wastes will be sold to authorized vendors for its proper recycling and reuse.
- . The collection, transportation, treatment and disposal of MSW Rules.

## Cost of Environmental Management Plan

Description	Capital cost (lakhs)	Running cost (lakhs/year)
Air		
Construction Phase	1.0	
Operation Phase		0.4
Noise		
Construction Phase	0.5	
Operation Phase		0.2
Water and Land		
Construction Phase	1.0	
Operation Phase		0.4
Sewage Treatment Plant	35	9.0
Rainwater Harvesting & Storm Water Management	2.0	0.4
Solid Waste Management	2.0	0.6
Energy		

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Lighting	10	0.8
Biological		
Landscaping	4.0	0.6
Total	Rs. 55.5 Lakhs	Rs. 12.4 Lakhs / Year

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

1. Fresh water requiremen in the project shall not exceed 251 KLD.
2. About 135 KLD treated sewage is expected to be left for disposal after recycling of the same, it is proposed to be disposed of in the nearby nalla for which permission from MC has been sought. PP shall take up Pest Control Palm in the region for disinfection of nearby water body.
3. SAFF based STP shall be installed for treatment of sewage.
4. STP sludge shall be dried using filter-press and the de-waterd sludge shall be disposed off along with the MSW.
5. MSW shall not be stored for more than 48 hours within the premises; PP shall make all the arrangement for disposal of the MSW up to the MC designated site.
6. Provision for play ground for the children shall be made in the project.
7. Solar panels shall be placed for street lights and other public utilities.

**6. Case No. – 1719/2013 M/s Essarjee Construction Pvt. Ltd. through Mr. Sunil Kumar Gupta, Z-10, Zone-1, M. P. Nagar, Bhopal (M.P.) – 462011. ESSARJEE SAMPADA By M/s Essarjee Construction Pvt Ltd., at Khasra No. ó 816, 824/1, 825/2, 828/1/2, 825/1/k, 825/1/kha, 828/1/1/kha, 827/1, 827/2, Village ó Khajuri Kala, Tehsil ó Huzur, Distt. ó Bhopal (M.P.) Total Land Area ó 8.842 ha., Total Built up Area – 76139.06 Sq.Mt. for Multi Stories, Duplexes and Commercial Space. Env. Consultant: Creative Enviro Case Services Bhopal Building Construction.**

This is a building construction project comprising total plot area of 8.842 ha and total built-up area of 76139.06 sq mt for residential/commercial development.

The project falls under category 8 (A) of the Schedule of EIA Notification, hence requires prior EC before commencement of any activity on site. The case was presented before the committee by the PP and his consultant. The submissions and the presentation revealed following aspects of the project:

Colonizer License has been granted vide no. 19 dated 18.09.1998 in the name of Sunil Gupta, MD , Essarji Construction Pvt Limited, Bhopal (MP)

The salient features of the project include: Affordable multi stores, school , , Sufficient green area, , Community centre, and Apartments for Economic Weaker Section. The case was presented by the PP and his consultant before the committee which reveals following:

### Project Details

Project Requirement	Details
Plot Area	8.842 ha
Proposed Built-up Area	Total Built Up Area = 76139.06 sq mt for Multi stories, Duplexes and Commercial Space
Units	783 Nos. , Commercial ( shop): 156 No, Club House & School 600 sq mt

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Total Population	3913+50+312 Nos.
Total Water requirement	535 m <sup>3</sup> /day
Total Fresh Water requirement	356 m <sup>3</sup> /day
Total waste Water Generation	482 m <sup>3</sup> /day
Solid waste generated	2238 kg/day
No. of Parking proposed	Stilt 2806.94 + Open 775 sq mt
Total Power requirement	30 KW
Height of Building	Stilt + 18 mt
Internal Road	9.0 mt and 7.5 mt
DG Sets	1 X 20 KVA
Nearest Fire Station	7.50 km

**Details of approvals obtained / applied for**

- T & CP Approval- 595 dated 26.03.2013
- NOC from water supply from corporation vide letter no. 1149 dated 27.08..2013
- Permission from municipal corporation for solid waste disposal vide letter : 371 dated 19.08.2013
- Permission from fire department : 41/Fire bdie/13 dated 12.08.2013

**Statement of area**

Statement of Areas		Development					
S.No.	Particulars	Permissible			Proposed		
01.	Organized Open Area	8481.50 (10% of Scheme Area)			8481.50 Sqmt.		
02.	Services Area				1295.11 Sqmt.		
03.	Maximum Far	1:1.25			1:1.25 + Additional FAR due to road		
04.	Road & Circulation Area				20725.75 Sqmt.		
05.	Maximum Ground Coverage	For Duplex – 60% For Multi Unit – 30%			For Duplex – 60% For Multi Unit – 30%		
06.	MOS						
	Type	Front	Rear	Side	Front	Rear	Side
	Duplex	3.00 Mtr	1.50Mtr	-	3.00 Mt	1.50 Mt	-
	Multi Storied Block	7.50 Mtr	6.00 Mtr	6.00 Mtr	7.50 Mt	6.00 Mt	6.00Mt
	Maximum Distance Between Two Block	As per layout					
07.	Maximum Height for Duplex Maximum Height for Multi Unit	9.00 Mtr Stilt + 18.00 Mt.			9.00 Mtr Stilt + 18.00 Mt.		
08.	Total Area	84810.01			84810.01		
09.	Total Built up area including built-up area of facility after construction over plots	73332.12 + 2806.94 (Facilities)			73332.12 + 2806.94 (Facilities)		
		76139.06			76139.06		

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<b>PARKING AREA STATEMENT</b>						
<b>Stilt Parking</b>						
<b>Particular</b>	<b>Block A</b>	<b>Block B</b>	<b>Block C</b>	<b>MIG Block</b>	<b>LIG Block</b>	<b>No of cars/vehicles</b>
Area in Sqmts.	688.94	300.00	180.00	1188.00	577.00	78 Cars
<b>Open / Podium Parking</b>						
Area in Sqmts.	960.00	325.00	225.00	--	--	70 Cars

### Source of water supply

1. In construction phase we will take water supply from the private tanker suppliers.
2. The Main source of water supply in operation phase will be BMC water supply. It will cater the domestic requirement whereas additional water requirement will be fulfilled by treated water from STP.

### Water Balance

<b>Total Water Balance</b>												
S n	Description	Total Population	Water Requirement				Total Water	% flow to Sewer				
			Flushing		Domestic			Flushing		Domestic		Total waste water
			A		B		A+B					
			LPCD	KLD	LPCD	KLD	KLD	%	KLD	%	KLD	LPD
1.	Flats = 783	3913	45	176	90	352	528	100	176	85	299	475
2.	Visitors for club	50	07	0.35	08	0.40	0.750	100	0.35	85	0.34	0.69
	Shops = 156	312	07	2	08	3	5	100	2	85	2.5	4.5
	<b>Total</b>	<b>4275</b>		<b>179</b>		<b>356</b>	<b>535</b>		<b>179</b>		<b>303</b>	<b>482</b>

Total Water Requirement = 535 KLD  
 Total Waste Water generation = 482 KLD  
 Total Flushing Water Requirement = 179 KLD  
 Net Fresh domestic water requirement = 356 KLD  
 Water requirement for horticulture purposes = 42 KLD  
 Car washing and over roads = 15 KLD  
 Excess treated water available = 434 - 179 - 42 - 15 = 198 KLD

### Environment Management Plan

#### STP Details

Capacity of STP = 500 KLD

- The waste water after passing through screen chamber will be collected in collection cum equalization tank. Air shall be provided in this tank to keep the suspended solids in suspension and to avoid any potential odor problem.
- From equalization tank effluent will be pumped to SAFF tank for biological treatment. The SAFF tank consist of PVC fill media, which shall facilitate the attached fixed film growth of microorganism. The aerobic environment in the aeration tank shall be achieved by the use of fine bubble diffused aeration, which also served to maintain the liquor in completely mixed regime.
- The mixed liquor from the SAFF tank overflows into a hopper bottom clarifier, where the sludge settles down and clear water overflows into clarified water tank (CWT)
- The sludge settled in the clarifier will be stored in aerobic sludge holding tank. From here the sludge shall be disposed off through filter press in the form of cakes.

[S.C. Jain, Chairman]

[V.Subramanian, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

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- Some amount of thin sludge from sludge holding tank (SHT) is re-circulated through recirculation pumps into SAFF tank to achieve better efficiency and less wastages.
- Effluent from CWT will be pumped to MGF for removal of suspended solids and turbidity. This filter shall be provided with sand and anthracite as filtering media. After MGF, the effluent will be passed through the ACF for further polishing. After UV treatment, the treated water shall be stored in treated water tank (TWT). After TWT, the treated water shall be fit for flushing/irrigation purposes.

## Storm Water Management & Rain Water Harvesting

- “ Separate and independent rain water drainage system shall be provided for collecting rain water from terrace, paved area, lawns and roads. Independent rain water down takes of appropriate size and number shall be provided in close coordination with architect.
- “ Perforated pipe drainage system shall be provided for open-to-sky courtyard/lawn. The storm water runoff from the ramp shall be separately collected and connected to sump.
- “ No storm water ingress shall be allowed into stilt portion. It shall be ensured to have electrical supply for all sump pump panel from electrical panel.
- “ Emergency supply shall also be made available to the sump pump electrical panel. It is also proposed to provide standby diesel engine pump for storm water drainage in inventory in case of extreme emergency.
- “ Provision of slit traps in storm water drains and regular inspection and cleaning of storm drains.

## Impact on Groundwater Regime

On the completion of rooftop rainwater harvesting, road runoff rainwater harvesting, open land area rainwater harvesting, the total recharge potential of the proposed project would be as under:

É	Rooftop rainwater harvesting =	<b>83823.61</b> m <sup>3</sup> /annum
É	Road and paved runoff rainwater harvesting =	<b>21020.63</b> m <sup>3</sup> /annum
É	Open land area rainwater harvesting =	<b>1463.05</b> m <sup>3</sup> /annum
	Total Recharge Potential =	106307.29 m <sup>3</sup> /annum
	Groundwater Recharge before the Project =	15252.45 m <sup>3</sup> /annum
	Groundwater Recharge after the Project =	06307.29 m <sup>3</sup> /annum

## SOLID WASTE MANAGEMENT

It is estimated that at about 2238 kg per day of waste will be generated from the facility during the operation

## CONSTRUCTION DEBRIS

- Construction debris is bulky and heavy and re utilization and recycling is an important strategy for management of such waste. As concrete and masonry constitute the majority of waste generated, recycling of this waste by conversion to aggregate can offer benefits of reduced landfill space and reduced extraction of raw material for new construction activity.
- Recycled aggregate will be used for filler application, and as a sub base for road construction. Mixed debris with high gypsum, plaster, shall not be used as fill, as they are highly susceptible to contamination, and will be given to recyclers.
- Construction contractors shall remove metal scrap from structural steel, piping, concrete reinforcement and sheet metal work from the site. A significant portion of wood scrap can be reused on site. Recyclable wastes such as plastics, glass fiber insulation, roofing etc shall be sold to recyclers.

## OPERATION PHASE

### Collection and transportation

[S.C. Jain, Chairman]

[V.Subramanian, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

[R.K. Jain, Member Secretary]

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- During the collection stage, the biodegradable and non- recyclable/ non biodegradable waste will be stored and collected separately.
- Coloured collection bins shall be provided in proper numbers
- To minimize littering and odours, waste will be stored in well designed containers/bins that will be located at strategic locations to minimize disturbance in traffic flow.
- The collection vehicles will be well maintained to minimize noise and emissions, and while transporting waste, these will be covered to avoid littering.

## **Disposal**

- With regard to the disposal/treatment of waste, the facility will disposed off the waste and STP sludge at trenching ground of Bhopal Municipal Corporation.

## **Environmental Management Plan-Air Environment**

### **Construction Phase**

- Transportation of Raw material during Non peak hours
- Idling of delivery trucks should not be permitted on roads
- Use of ready mix concrete carried in enclosed container
- Dust covers on trucks used for transportation of material
- Equipment shall be located away from sensitive receptor location
- Frequent water sprinkling to prevent fugitive dust emission
- Use of sharp teeth excavation machinery
- Covered fencing around the site will be provided.

### **Operational Phase**

- DG set will have appropriate stack height as prescribed by the Central Pollution Control Board
- Proper ventilation will be provided to all parts of the building
- Open burning of any waste shall not be allowed.

## **Environment Management For Noise Pollution**

### **Construction Phase**

- Time of operation - Noisy construction equipment should be permitted with suitable precautions.
- Job rotation and hearing protection ó Workers employed in high noise areas will be rotated. Earplugs / muffs or other hearing protective wear will be provided to those working very close to the noise generating machinery.

### **Operation Phase**

- Noise Emission Control Technologies: DG generator will have suitable acoustic enclosure which shall be designed for minimum 65 dB (A).
- Ambient Noise Monitoring shall be carried out as per direction of MPPCB

## **Energy Conservation Measures**

### **Electrical**

- Energy efficient CFL/T5 lamps for common areas. Use of low loss electronic ballasts
- Multiple circuit for lighting to switch off unwanted lights
- Use of low loss capacitors, APFC relays
- Group control for elevators
- Proper selection & sizing of cables consideration derating factors so as to minimize losses
- High efficiency motors conforming to IS 2615-2004
- Use of LED lightings which consume less energy

[S.C. Jain, Chairman]

[V.Subramanian, Member]

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- Use of day light which reduce 50-60% of lighting cost
- Use of insulated glass can save 10-13% of cooling and heating cost

## Plumbing

- Variable speed pumping system will be adopted for water distribution
- All public wash basins and urinals will have proximity sensors
- Recycle programme consider for water ( refer water balancing chart )

## Fire & Safety Measures

- Overhead Fire storage tanks as per NBC 2005
- Fire Hydrant System
- Automatic Fire Alarm System
- Hydrant pumps, Sprinkler pumps & Jockey pumps.
- Hand Held Fire Extinguishers
- Automatic Sprinklers System
- Wet risers, Fire Extinguishers, Hose Reel.

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

1. Fresh water requiremen in the project shall not exceed 356 KLD.
2. About 198 KLD treated sewage is expected to be left for disposal after recycling of the same, it is proposed to be disposed of in the nearby nalla for which permission from MC has been sought. PP shall take up Pest Control Palm in the region for disinfection of nearby water body.
3. SAFF based STP shall be installed for treatment of sewage.
4. STP sludge shall be dried using filter-press and the de-waterd sludge shall be disposed off along with the MSW.
5. MSW shall not be stored for more than 48 hours within the premises; PP shall make all the arrangement for disposal of the MSW up to the MC designated site.
6. Provision for play ground for the children shall be made in the project.
7. Solar panels shall be placed for street lights and other public utilities.

**7. Case No. - 730/2012 Shri Tarun Kathuria, Director, M/s A.R. Infrastructure Private Ltd. 15, UGF, Indra Prakash Building, 21 Barakhamba Road, New Delhi – 110001 - Proposed group housing project Cat. 8(b), at Talavali Chanda (Gram & Moja), Distt. Indore, (M.P.) Total Plot Area - 199222.618 m<sup>2</sup> , Built Up Area -206937.46 m<sup>2</sup> . Env. Consultant : GRC I. (P) Ltd. Noida (U.P.) ToR issued vide letter no 266 dt. 11/03/13. - Building Construction**

Neither the Project Proponent 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. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

**8. Case No. – 1661/2013 – M/s Arms Real Estate Developers Pvt. Ltd., Raj Bisen, Director Arms Manor, 9 FF, Scheme No.- 54, Vijay Nagar, Indore (M.P.) 452010. The Empress Residential Project, Plot No. ó 58/2 and 58/3/2, Opp. Ashirwad Villa, Village ó Nipania, Tehsil ó Indore, Distt. ó Indore (M.P.) Plot Area – 9470 M<sup>2</sup> , Built up Area – 21177.76 M<sup>2</sup> Ground Coverage – 2083.2 M<sup>2</sup> Env. Consultant : Kadam Env. Con. Delhi. Building Construction.**

[S.C. Jain, Chairman]

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[R.K. Jain, Member Secretary]

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Neither the Project Proponent 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. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

- 9. Case No. - 1720/2013** Shri Ramesh Joshi S/o Shri Ratanlal Joshi, Partner M/s Natural Resources (India) Pvt. Ltd., 39, Kali Krishna Tagore Street, Room No. – 510, Kolkata - 700007 Bahiyatikur Manganese Mining Quarry, Lease Area - 27.02 Ha., at Khasra no. -22/6k, 36/1, 2, 22/7gha, 33/1k, 32/2, 35/1, 45/1, 45/1,45/3, 45/2k, 45/2kha, 32/2k, 32/2gha, 32/2kha, 44/2, 44/3, , Village ó Bahiya Tikur, Tehsil ó Lalbarra, Distt. ó Balaghat (M.P.) Proposed Capacity ó 2996TPA.( Existing Capacity ó 885 TPA), Lease Area - 4.579 Ha., Env. Consultant: Not disclosed. **ToR**

Neither the Project Proponent 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. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

- 10. Case No. - 574/2010** - Shri Somendra Singh & Shri Amar Singh, Malti Mandir, Ghoghar, Ghoghar, P.O. & Distt. - Rewa (M.P.) – 486001. *Bigoudi Limestone Mine at Khasra No. - 86/2k, Village- Begoudi, Tehsil- Amarpatan, Distt. – Satna (M.P.) Capacity: 20000 MTA Limestone & 10000 TPA Reject Stone, Lease Area - 8.09 Ha.*, 1. ToR issued vide letter no. 574 dt. 27/09/10. 2. Revised ToR issued vide letter no. 540 dt. 29/06/13. Env. Consultant: GRC I. (P) Ltd. Noida (U.P.) **EIA Presentation.**

This is a mining project comprising lease area of 8.09 Ha. The project was admitted from grant of prior EC. The EIA report submitted by PP was forwarded to SEAC by SEIAA for appraisal and necessary recommendation. The case was presented by the Pp and his consultant before the committee which reveals following:

**Project History:**

- É Mining lease has been sanctioned to Shri Somendra Singh and Shri Amar Singh for 30 years period with effect from 14.9.2010 to 13.09.2040
- É Mining plan has been approved by the Indian Bureau of Mines vide letter No. MP/Satna/Limestone/MPLN/G-02/10-11 Dated 30.06.10
- É The proposal is for the production of 30,000 TPA(20,000 TPA Limestone and 10,000 TPA of Reject Stone.)
- É The honorable MPSEAC has issued project TOR vide letter No: **818/PS-MS/MPPCB/SEAC/TOR (64)/2010** Bhopal dated 27th September 2010 (Case no. 574/2010) and extended for further one year period vide letter No. **540/PS-MS/MPPCB/SEAC/Rev.TOR(add 126)/2013** dated 29/06/2013
- É Environmental Study: **Dec 2011 to Feb 2012**
- É Public Hearing for the project was completed on **29/07/2012.**

**Location & Accessibility**

Location of mining lease area	Village : Begoudi Tehsil : Amarpatan District : Satna State : Madhya Pradesh
Geographical Co-ordinates	Latitude : 24 <sup>o</sup> 23'22" to 24 <sup>o</sup> 23'37" N Longitude : 81 <sup>o</sup> 10'10" to 81 <sup>o</sup> 10'23" E

[S.C. Jain, Chairman]

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Total Mining Lease area	8.094 ha
Type of lease area	Government Land (waste land)
Nearest Habitation	Begoudi at 0.8 km in NE direction
Nearest Railway Station	Rewa at 19 kms in NNE direction
Road Connectivity	ML area is accessible from Satna via Ahirgaon and Amarpatan by Amarpatan-Rewa N.H.- 7 upto Ahirgaon which is about 15 km from Amarpatan towards east direction and then turning right upto the lease area on Ahirgaon - Begoudi approach road (13 kms.) via Pondi Kala.
Altitude of the Site	320m to 323.50m AMSL

## Air Pollution Control Measures

### Mines

- É Wet drilling arrangements will be made.
- É Use of Personal Protection Equipments (PPE) like dust masks, ear plugs etc. by the mine workers.
- É Manual mining with occasional controlled blasting and optimization of use of explosive energy will help in reducing the above emissions.
- É Regular water sprinkling on haul roads & loading points will be carried out

### Haulage

- É All haul roads will be maintained regularly and will not be blocked or obstructed for any villager/passersby.
- É Avoiding over filling of tippers and consequent spillage on the road.
- É Ore carrying trucks will be effectively covered by tarpaulin.

### Noise Pollution Control Measures

- É Proper maintenance, oiling and greasing of machines at regular intervals will be done to reduce the generation of noise.
- É Adequate silencers will be provided in all the diesel engines.
- É If blasting is required then blast holes will not be overcharged.
- É Plantation along the sides of approach roads and mine area will be done to minimize the propagation of noise. Shelter belt plantation of 15m strip will be done towards habitation area in east.
- É Personal Protective Equipments (PPE) like earmuffs/earplugs will be provided to all operators and employees working near mining machineries or at higher noise zone.
- É Periodical noise level monitoring will be done.

### Water environment (impact assessment)

The mining operations being opencast, adverse impacts are likely to arise if proper control measures are not implemented. The following are the areas where adverse impacts are envisaged in respect of surface water quality:

- É Wash-off from the dumps
- É Soil Erosion

### Water Pollution Control Measures

- “ Soil will be used as blanket on the worked out area of the pits for taking up afforestation.
- “ As such no wash off from the dumps or soil erosion is expected.
- “ Bunds will be formed around the mine lease to restrict the water run off with pot holes

### Reclamation Plan

- “ No reclamation and rehabilitation has been proposed during proposal period .

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- " At Conceptual Stage reclamation will be carried out simultaneously from 11th year onwards. About 730 sqm. area will be reclaimed per year up to final closure of mine.
- " The quantity of OB and waste to be utilized per year will be about 4000 cum. Rehabilitation by way of afforestation will be carried out in 730 sqm area per year upto mine life end and balance during FMCP period of 1- 2 years. Area reclaimed by water harvesting will be 4.38 hec.

## Post mine land use

S. No.	Particulars	Post mining Land use (ha)
1	Total area excavated	(5.764)
2	Reclaimed & rehabilitation by afforestation (out of 1)	1.384
3	Area under Reservoir	4.38
4	Area under green belt	2.13
5	Area under site services and road	0.20
<b>Total</b>		<b>8.094</b>

## Environmental data

Prediction of Ground Level Concentrations (GLC $\phi$ ) of pollutants emitting from the mining activities like, 1. Drilling and Blasting operations, 2. Excavation and Loading of ore and 3. Transportation on the haul road has been carried out using Gaussian Dispersion Model  $\delta$ ISCST-3 $\phi$ .

**Public Hearing Issues:** The public hearing proceedings were dealt in detail. In general Public Hearing was in favour of the project and no adverse comments were observed.

- Sh. Ram Shuseel Tiwari of Vill: Begaudi  $\phi$  demanded road through adiwasi basti. The project proponent is willing to assist authorities if suggested route is accepted. The PP will assist if the Panchayat or Government will make the road and Rs. 50,000 will be contributed for it.
- Sh. Budha Sen Patel Sarpanch of Vill: Begaudi demanded that Blasting should be done with latest technique so that minimum loss occur to people and environment, employment should be given to local people. PP submitted that Controlled blasting will be done if required through qualified blaster
- Sh. Mohammad Rehman Khan of Vill: Begaudi demanded that Running of mine should be done by latest technology so that there is no loss to agriculture and people. Local people should be employed in mine. Mine management should do plantation in mine as well as near village also they should assist in development of village. PP responded that Mine will be worked through scientific methodology which will minimize adverse effect on environment. Mostly local people will be employed. Plantation will be done as per proposed plan.

## Recurring Expenses

Activity	Area of	Method of calculation	Basics	Expenses (in Rs.)
a.	Corporate Social Responsibility	Total production X Revenue per ton X 2%		50,000
c.	Income Generation Activities	Rs. 500 per head X unemployed population of nearest village	No. of unemployed population : 50	25,000
d.	Community Health checkup	Rs. 0.25 lakh per village X Affected village due to this mining	Anticipated No. of Village : 1	25,000
<b>Total</b>				<b>1,00,000</b>

[S.C. Jain, Chairman]

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The EIA, EMP 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:

- Village road from the Tribal Tola up to the Main road shall be constructed by the PP through Gram Panchayat as per the commitment made by the PP in the Public Hearing.
- In view of nearby village (reported to be 800 meters) only safe blasting shall be conducted in presence of an expert.
- The Blasting operations shall be carried out according to a preplanned schedule after due announcement.
- Drinking water for the villagers shall be provided.
- Check dams shall be provided to avoid siltation of the near by water bodies.
- All CSR activities shall be taken up in coordination with the Gram Sabha and the Local Administration.
- Garland drain shall be constructed and connected to the settling tank to avoid run-offs and silt from the site into the nearby water body.
- At least 7-8 meters thick green belt shall be developed all around the lease area from the day one.

**11. Case No. - 1324/2013 Shri Milan Kumar Maheswari, 279, MG Road – Alirajpur, Distt. – Alirajpur (M.P.) 457887 ToR.** *Kund Dolomite Mine (New) at Khasra No. – 611, Village –Kund, Tehsil – Alirajpur, Distt. – Alirajpur (M.P.) Lease Area – 4.00Ha.. Capacity – 10,000 MTPA.,* Case No. - 1365/2013 **Shri Madan Maheswari, HPA, 279, MG Road – Alirajpur, Distt. – Alirajpur (M.P.) 457887** Env. Consultant: Creative Enviro Services Bpl. (M.P.) **ToR.**

Neither the Project Proponent 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. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

**12. Case No. - 1365/2013 Shri Madan Maheswari, HPA, 279, MG Road – Alirajpur, Distt. – Alirajpur (M.P.) 457887** *Ambua Marble Mine (New) at Khasra No. – 46, 66, 1289, 1290, 1291,1292, 1331, 1332 & 1352 Village – Aambua, Tehsil –Alirajpur, Distt. – Alirajpur (M.P.) Lease Area – 8.090 Ha. Capacity – 35,000 MTPA, Env. Consultant: Creative Enviro Services Bpl. (M.P.). TOR.*

This is a mining project with lease area of 8.0990 Ha and production capacity of 35000 MTPA. The project falls under the provisions of EIA notification and mentioned as item 1 (a). Hence requires prior Ec before commencement of activity at site. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and EMP for the project. The case was presented by the PP and his consultant before the committee. After deliberations Committee has approved the proposed TOR with inclusion of following points for carrying out EIA study and preparing EMP:

- Composite EIA and cumulative EMP shall be prepared considering the mining activities in the vicinity.
- The mine is reported to be already worked out mine with huge amount of accumulated water in the working pits, the pits are proposed to be de-watered before commencement of excavation; hence detailed de-watering plan has to be furnished in the EIA including safe & useful disposal of the accumulated water.
- Geo-hydrology to be furnished in the EIA report.
- Other standard TORs shall be applicable.

[S.C. Jain, Chairman]

[V.Subramanian, Member]

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**13. Case No. – 1724/2013** Shri A.N. Sarkar, Chief Executive Officer, Madhya Pradesh Plastic Park Development Corporation Limited ( A subsidiary of MPAKVN (B) Ltd.) 1<sup>st</sup> Floor, Tawa Complex, Bittan Market, E-5, Arera Colony, Bhopal (M.P.) – 462016- Tamot Plastic Park at Khasra No. 6726, Village - Tamot, Tehsil Goharganj, Distt.- Raisen (M.P.)

This is a project pertaining to Plastic Park Development. The case was presented by Shri A.N. Sarkar, Chief Executive Officer, Madhya Pradesh Plastic Park Development Corporation Limited and Shri Sunil Asapu, representative of ILFS. The submissions and the presentation reveals following:

- The Plastic Park is proposed to be located near Tamot Village in Goharganj Tehsil of Raisen District in Madhya Pradesh State.
- MPAKVN-Bhopal has received in-principle approval for establishment of a Plastic Park (13-April-2012)
  - i. Scheme for Plastic Parks, Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilisers, Govt. of India
  - ii. Grant-in-Aid of 50% of project cost (ceiling of Rs. 40 crore)
- Total Project Cost of Rs. 108 crore
- Employment Generation
  - i. Direct - 5,080
  - ii. Indirect - 15,000
- Plot Configuration for individual units
  - i. Micro Units: 600 smt
  - ii. Small Scale Units : 1,200 smt
  - iii. Medium Scale Units : 2,500 to 5,000 smt
  - iv. Large Scale Units : > 10,000 smt
- The types of Industries proposed to be set in the Park are only Plastic Product manufacturing Industries (108 Nos. units) and a Training & Testing Centre to assess technical and skill development aspects
- During the project feasibility stages, proposed Plastic Park area was earmarked on 138 Acres of Land in Revenue Survey (Khasra) No. 726 available with MPAKVN-Bhopal
  - After incorporation of Madhya Pradesh Plastic Park Development Corporation Limited (MP-PPDC Ltd.) subsidiary of MP-AKVN, 138 Acres (55.84 Ha) of land has been allocated to MP-PPDC Ltd. vide MPAKVN order dated 03/04/2013
- After detailed technical field surveys, the total Development area is arrived at 121.90 Acre (49.33 Hac.) as per the Master plan
  - MP-PPDC undertakes to return the un-utilised land (6.52 Ha) to MPAKVN after approval from State Govt. since there are no future expansion plans
- Built-up Areas for Common Facilities : Total 14,478 sqmt
  - Administration Complex with all facilities including Advanced Plastics Product Simulation & Evaluation Centre (APPSEC), Ware housing facility/ Raw material depot/ Packaging Unit, Workers' Dormitories

Scrutiny of the case as submitted and presented by the PP reveals that:

- A. Plot-area is less than 500 Ha and housing of any industry of category A or B is not proposed in the project this project hence the project is not covered under the activity mentioned as Item 7 (c) (i.e. Development of Industrial estates/ parks/ complexes/ areas, export processing Zones (EPZs), Special Economic Zones (SEZs), Biotech Parks, Leather Complexes) of the Schedule of EIA Notification.
- B. Also it is observed that total built-up area proposed in the project is only **14,478 m<sup>2</sup>** and the plot area proposed to be developed is **49.33 Hac**, the project is not either covered under the activity mentioned as Item 8 (b) of the EIA Notification.

[S.C. Jain, Chairman]

[V.Subramanian, Member]

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Thus in light of above facts Committee is of the opinion that the project do not attract the provisions of the EIA notification hence the proposed project do not require prior Environmental Clearance with the present components of the proposed conceptual plan.

- 14. Case No. – 1725/2013** Shri Dinesh S/o Shri Devendra Lal Agrawal, Vijay Nagar, Balaghat Road, Gondia (M.S.) – 441601 Sonogaon Manganese Ore Mine at Khasra No. 6 274, Village - Sonogaon, Tehsil 6 Tirodi, Distt- Balaghat (M.P. ) Lease Area – 4.998ha. Capacity 6 12495 TPA. **ToR.**

Neither the Project Proponent 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. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

- 15. Case No. – 1709/2013** Shri Nannulal Patidar, Land Owner, 1<sup>st</sup> Floor, Virndavan, 4, Malviya Nagar, Bhopal (M.P.) – 462003 **Building Construction.** “Ananta” of Nannulal Patidar ( Land Owner) Athorized Developer M/s GMV Pvt. Ltd., at Khasra No. – 61, Village- Bagali, Tehsil -Huzur, Distt. – Bhopal (M.P.) **Total Plot Area – 40470.00 sq.mt. (4.047 ha.) Total Built Up Area – 24872.32 sq.mt. ( Case was differed 139<sup>th</sup> SEAC Meeting date 29/08/1).**

This is a building construction project comprising plot area of 40470.00 m<sup>2</sup> and total built-up area of 24872.32 m<sup>2</sup>. The project is covered under the provisions of EIA notification and mentioned as item 8(a) in the schedule of the notification. The case was presented by the PP and his consultant before the committee which reveals following:

#### Land details

Khasra No.	Land Area (Hect.)	Land Owner
61	4.970 hect.out of this 4.047 hect. land area is developed for Ananta project	Land Owner-Shri Nannulal Patidar Developer- GMV Pvt. Ltd. Joint-Venture between Land Owner & M/s. GMV Pvt. Ltd.

#### Salient feature of the project

Name of the Applicant	: Ananta of M/s. Nannulal Patidar (Land Owner)
Name of the Proponent	: Shri Nannulal Patidar
Designation	: Land Owner
Registered Address	: Shri Nannulal Patidar 1 <sup>st</sup> Floor, Vrindavan, 4 Malviya Nagar, Bhopal (M.P.) Pin code 6 462003
Total Area Of The Plot	: 40470.00 Sq.mt
Proposed Built Up Area	: 24872.32 Sq.mt
Land Use	: Residential
Building Height	: 12.0 m (max. for EWS block)
ROW	: 12.0 m Wide Road
Total Net Fresh Water Demand	: 107 KLD
Municipal Water Supply	: 107 KLD
STP Capacity	: 160 KLD
Solid Waste Generation	: 0.529 TPD
Power Demand	: 1660 KVA
Back Up Source	: 100 KVA (D.G. Set 6 1 x 100 KVA)
No. of Duplexes	: 211 No.
No. EWS Units	: 33 No.
Railway Station	: Habibganj Railway Station 6 9.5 Km away from site

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[V.Subramanian, Member]

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Air Port : Bhopal Airport 27.5 Km away from site

## Statutory approvals obtained

1. T & CP approval-Bhopal - SN/2938/LP272/29/NGRANI/GKA/2010 DATED 12/07/2013.
2. Colony development permission S/N/317/B-121/2012-13 DATED 02/04/2013.
3. Copy of Memorandum and Articles of Association.
4. Coloniser Registration - SN/254/B 6 21/2011-12 DATED 22/02/2013.
5. Copy Of Municipal Solid Waste Disposal Consent from BMC S/N/294/H.D./13 Dt,05/07/2013.
6. Copy of Water Supply Permission Consent from BMC.
7. Corpus fund letter along with an affidavit for creation of funds.
8. Tanker water supply agreement for construction phase

## Area statement

Statement of area	
Total area	40470.00 SQM.
Area under 24.0m. Wide road	3866.36 SQM.
Area under 18.0 m. Wide road	1630.10 SQM.
Net area for residential development area	34973.54 SQM.

Information sector	SQ.M.
Net planning area	34913.04
Area req. For informal sector 15%	5236.96
Built up area required (5236.96x0.6x0.25)	785.54
Plot area required with g+3 building	654.62
B/up area of each unit	24.00
Total no. Of units	33.00 NOS

Breakup of area for plottable development		
Net. Planning area	34973.54 SQ.M.	
	SQ.M.	%
Plotted area	19269.42	55.10
Open area	4658.45	13.32
Open for services	349.73	1.00
Road circulation area	10041.54	28.70
Informal sector area	655.00	1.88
Total area	34973.54	100.00

## SOURCE OF WATER SUPPLY

The Main source of water supply will be Municipal water supply. It will cater the domestic requirement whereas additional water requirement will be fulfilled by treated water from STP. In construction phase we will take water supply form the private tanker suppliers.

S. No.	Item Description	Residential
1.	Domestic Water Requirement	107 KLD
2.	Flushing Water Requirement	53.6 KLD
3.	Landscaping & other uses	78.5 KLD
4.	Total Water Demand	240 KLD or Says 240 KLD
5.	Available Treated Water through STP	132.5 KLD

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6.	Net Fresh Water	107 KLD
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### Water Balance Details For Residential

S. N	Item Description	Number of Persons / Seats	Water Requirement / head (liters)	Total water Requirement (liters)
<b>A Fresh Water Requirement</b>				
1	Apartments/Flats	1,055	90	94950
2	EWS	132	90	11880
3	Maintenance Staff	10	20	200
	Sub Total of A			107030
<b>B Flushing Water</b>				
1	Apartments/Flats	1,055	45	47475
2	EWS	132	45	5940
3	Maintenance Staff	10	25	250
	Sub Total of B			53665
<b>C Treated Effluent Water Requirement &amp; Misc. Uses</b>				
1	Landscaping			49000
2	Misc. & Other Uses			29,500
	Sub Total of C			78,500
	Total water requirement (A+B+C)			239,195
				Or says 240 KLD

### Waste water balance details for residential

S N	Item Description	Total water Requirement (liters)	Percentage of water to STP @ 85 % For Domestic and @ 100% for Flushing	Total water Requirement (liters)
<b>A Domestic water</b>				
1	Apartments/Flats	94950	0.85	80707.5
2	EWS	11,880	0.85	10098
3	Maintenance Staff	200	0.85	170
	Sub Total of A			90975.5
<b>B Flushing Water</b>				
1	Apartments/Flats	47475	1	47475
2	EWS	5,940	1	5940
3	Maintenance Staff	250	1	250
	Sub Total of B			53665
	Total waste water (A+B)			144640.5
				Say capacity of STP ~ 160 KLD

### Solid Waste

- Total solid waste generated will be around 0.529 TPD
- Biodegradable & Non-Biodegradable waste will be segregated at source in accordance with MSW (M&H) Rules, 2000.
- 100% Door to Door Collection system will be done by the maintenance staff.
- Hand driven carts shall deliver the MSW from residential blocks to storage bins and from storage bins to main waste collection point.

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- Each set will have bins of three colors with green bin for biodegradable waste, white for recyclable waste and black for other type of waste.
- The MSW collection centre will be at the gate of the campus where three covered bins of green, white and black color will be placed for collection from the campus and for final transportation for disposal.

## **Environmental Management Plan-Air**

### **Construction Phase**

- . Dust control plan
- . Regular Maintenance of vehicles
- . Proper ventilation system shall be provided to all part of the work areas of site.
- . All dust producing construction materials will be transported with proper cover as tarpaulin.
- . Regular sprinkling of water shall be done at site for dust suppression.
- . Green belt development along road side to attenuate the effect of air pollution will begins from construction phase.
- . Large leaf plants will be use in tree plantation all around the project site and road side reduces the impact of the air pollution.
- . Use of Ready mixed cement
- . Reduce on site activities by Off-site fabrication of structural components

### **Operational Phase**

- . Green belt along road side in different tiers to attenuate the effect of air pollution
- . Provision of signage's for easy circulation of traffic.
- . Provision for adequate parking space.
- . Use of low sulphur diesel for DG set.
- . Provision of sufficient stack height for DG set.
- . Use of back-up DG set (acoustic enclosed) during power failure only.
- . The green belt will be developed especially around dust generating areas.

## **Environmental Management Plan-noise**

### **Construction Phase**

- . Regular maintenance of construction equipments
- . Proper road network has been designed as per the prevailing guidelines for smooth operation of traffic; impact in noise level due to the operational traffic will be negligible.
- . Barricading of the construction area with high barrier
- . Job Rotation and Hearing Protection for workers

### **Operational Phase**

- . The landscape design along the periphery of the plot has been developed to achieve attenuation factor conforming to noise standards.
- . The open spaces inside the plot is suitably landscaped and covered with vegetation to reduce the impact of noise.
- . Provision of adequate parking space
- . Acoustic enclosure for D.G. Set
- . Use of D. G. set as alternate power supply in case of power failure which is a rare occurrence in this area.

## **Environmental Management Plan-water**

### **Construction Phase**

- . Leak proof containers for storage and transportation of oil/ grease.
- . RMC shall be used.
- . Impervious oil/grease handling area.
- . Provision of Drinking Water and temporary sanitation facilities for workers.

### **Operational Phase**

- . Treatment of sewage on site in STP.
- . Use of treated sewage water for Flushing & Landscaping.

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- . RWH and SWM scheme
  - " Rainwater from Roof top and terraces will be used for ground water recharging.
  - " SWM will be done with the help of well planned storm water drainage network as per BMC remarks.
- . Minimizing Water Consumption
  - " Use dual flush system, Auto flushing sensors for urinals
  - " Efficient Plumbing Fixtures

## Environmental Management Plan - Land

### " Construction Phase

- . Segregation of waste at source
- . Construction of temporary soak pits/ septic tank on site
- . Reuse of construction debris at the site itself for land leveling
- . Effective measures for prevention of leakage of oil

### " Operational Phase

- . Segregation of waste at source
- . Waste storage in well-designed containers/ bins
- . The sewage sludge from sewage treatment plant will be converted into an odorless soil conditioner and used as manure for gardening purposes.
- . Waste storage bins will be provided for wet and dry garbage. The same shall be segregated and stored in bins
- . Biodegradable and Non-biodegradable solid waste will be collected separately.
- . Non-biodegradable and Biodegradable solid waste would be handed over to authorized agency.
- . Recyclable inorganic wastes will be sold to authorized vendors for its proper recycling and reuse.
- . The collection, transportation, treatment and disposal of MSW Rules.

## Cost of Environmental Management Plan

Description	Capital cost (lakhs)	Running cost (lakhs/year)
Air		
Construction Phase	1.0	
Operation Phase		0.4
Noise		
Construction Phase	0.5	
Operation Phase		0.2
Water and Land		
Construction Phase	3.0	
Operation Phase		0.3
Sewage Treatment Plant	20.0	4.1
Rainwater Harvesting & Storm Water Management	2.0	0.4
Solid Waste Management	1.5	0.4
Energy		

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Lighting	08	0.6
Biological		
Landscaping	4.0	0.8
Total	Rs. 40 Lakhs	Rs. 7.2 Lakhs / Year

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

1. Fresh water requiremen in the project shall not exceed 107 KLD.
2. The excess treated sewage expected to be left for disposal after recycling of the same, is proposed to be disposed of in the nearby nalla for which permission from MC has to be taken. PP shall take up Pest Control Paln in the region for disinfection of nearby water body.
3. SAFF based STP shall be installed for ttreatment of sewage.
4. STP sludge shall be dried using filter-press and the de-waterd sludge shall be disposed off along with the MSW.
5. MSW shall not stored for more than 48 hours within the premises, PP shall make all the arrangement for disposal of the MSW up to the MC designated site.
6. Solar panels shall be placed for street lights and other public utilities.

Meeting ended with thanks to the Chairman and the Members.

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[S.C. Jain, Chairman]

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