The meeting conducted on 30<sup>th</sup>July 2013was 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.** – **1707/2013**- M/s Madhya Bharat Agro Products Limited (Unit-I) Through Manager ShriManoharRaghuwanshi, 127, Rachnanagar, Bhopal(M.P.)–452001 - <u>For ToR</u>

This is an operating SSP plant. PP has applied for EC in view of proposed change in product form from Powder-SSP to Granulated-SSP without change in production capacity (i.e. 60,000 MT/Year) at Khasra No. 6 28, 120, 37, 121 & 36, Village ó Rajoua, Tehsil ó Sagar, Distt. ó Sagar Plot Area- 1.36 ha. It was reported by the PP that the plant is producing powder-SSP since prior to 2006 when EIA notification was not in existence however now as change in product form from P-SSP to G-SSP is proposed with slight change in techology. Application has been filed for prior EC. The application was forwarded by SEIAA for scoping and appraisal of the project. The case was presented by the PP which reveals following features of the project:

#### **Project Background**

- □ M/s Madhya Bharat Agro Products Limited (Unit-I) is a public Limited company engaged in the business of manufacturing & sale of Single Super Phosphate Fertilizers.
- □ We have a unit for production of SSP of Capacity 60,000 TPA in Rajoua Dist. Sagar having valid water & air consents.
- □ As per policy of Central Govt. we are bound to sale Granulated S.S.P.(GSSP) instead of Powder SSP (PSPP) in the market.
- □ As per the Policy we are going to convert the PSSP in to GSSP in same premises without additional land, by installing the GSSP Plant & Machineries.
- □ The Capacity of GSSP will be same i.e. 60,000 TPA. Powder SSP is proposed to be converted in Granulated SSP form.

#### Location of The Site

Geological location	23 <sup>0</sup> 48ø6ö N & 78 <sup>0</sup> 42ø20ö E
Nearest habitation	Rajua Village
Nearest City	Sagar
Nearest Railway Station	Sagar 5 km
National Park/ Heritage site	None in 10 km radius

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Ecological Sensitive Zone	None in 10 km radius
Reserve Forest	None in 10 km radius
Nearest NH	NH 86
District Headquarter	Sagar

#### Area Required for SSP/GSSP Plant

SN	Particulars	Area (sqm)
1	Total Land available	13650
3	Area for SSP/GSSP Plant	2500
4	Area for Raw Material storage	1750
4	Finished good storage	1000
7	Existing Green belt area	1000
8	Proposed Green belt area	2500
9	Open area	4500
10	Admin building + Lab+ Stores	400

#### **Raw Material Requirement**

SN	Name	Quantity /Ton GSSP	Source
1.	SSP in Powder form	1.000 MT	Own production
2.	Water	0.160 KL	Own Source (Bore well)

#### Air pollution control equipment For SSP Plant.

A. Ventury Scrubber - 01 Nos.

B. Three stage Cyclonic Scrubber for Fluorine scrubbingalongwith Scrubbing pumps with spiral nozzle - 03 sets

C. Scrubber ID Fan - 1 Nos.

D. MSRL Chimney - 1 Nos.

(750 MM Dia X 45 Mtrs. Height)

#### Proposed Air pollution control equipments For GSSP Plant.

1. Twin cyclone ó 2 Nos.

2. Stack 35 m high X 750 mm dia- 1 Nos.

3. Dry dust collection chamber 3 stage for dryer before exhausting to atmosphere.

4. I D Fan for Dryer.

#### Health and Safety

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- The Health and Safety of the employees is being taken care during the plant operation.
- Provision of rest shelters for workers & with amenities like drinking water, fans etches already been made within factory premises.
- Training to employees for tackling chemical and fire hazards.
- PPEs are being provided to all the employees.
- First aid facility kept in factory.
- Ambulance is available at plant for any emergency.
- Periodical medical checkup camps are being organized for worker /staff & villagers.

It was submitted by the PP that the industry has been operating with all compliances of the terms and conditions of consents provided by the MPPCB. It was also submitted that the industry is operating with its EMP plan in place and baseline data is being collected periodically. Thus, committee decided to issue TOR to carry prepare an effective EMP with necessary budgetary provisions including the following points in the study:

- 1. Compliances of the terms and conditions of the consents / Authorization have to be detailed out in the report as a separate chapter. PP shall also submit a certified report from MPPCB for compliances along with recommendations of the MPPCB.
- 2. Location of the industry with all the features within 5 Km around the industry have to be detailed out on a map.
- 3. Transportation route for transport of materials from & to the industry to be detailed out mentioning the impacts and the mitigations adopted or proposed.
- 4. Existing EMP and present status of the implementation of the same to be detailed out along with the real time photographs.
- 5. Baseline data with activity wise expected impacts from the proposed change in product form to be dealt in detail along with the proposed mitigations.
- 6. Proposed EMP in totality to be presented with budgetary provisions.
- 7. CSR activities already taken up, their implementation status and the proposed CSR with budgetary provisions to be detailed out in the report.

#### 2. Case No. – 1708/2013 M/s Madhya Bharat Agro Products Limited (Unit-III) Through Manager ShriManoharRaghuwanshi, 127, Rachna Nagar, Bhopal (M.P.) – 452001- Manufacturing unit for SSP, GSSP, TSP, BRP, Sulphuric Acid (& its derivates), Phosphoric Acid and Associated Inorganic Salt at Saurai Industrial Area, Dist. Sagar, Madhya Pradesh. For ToR [Env. Consultant-: M/s Asian Consulting Engineers Pvt. Ltd]

This is a proposed industry of SSP, GSSP, TSP, BRP etc. The activity is covered under the EIA Notification as Item 5, hence requires prior EC before commencement of activity at site. The industry has applied for prior EC the application along with the enclosures was forwarded by SEIAA for scoping so as to determine TOR to carry out EIA and prepare effective EMP for the project. The case was presented by the PP and his consultant before the committee which reveals following: **Project Details** 

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<b>S.</b> N	Particular	Detail	
1.	Name of the Proponent	M/s Madhya Bharat Agro Products Ltd. (Unit-III)	
2.	Name of Consultant	M/s Asian Consulting Engineers Pvt. Ltd. Certificate No. NABET/EIA/1013/012	
2.	Location of the Unit	Saurai Industrial Area, Dist. Sagar , Madhya Pradesh.	
3.	Project	Manufacturing unit for SSP, GSSP, TSP, BRP, Sulphuric Acid (&itsderivates), Phosphoric Acid and Associated Inorganic Salt.	
4.	Total Area	23.370 ha	
5.	Estimated cost of the project	INR 167.84 Cr.	
6.	Industries with 1 km radius.	M/s Madhya Bharat Agro Products Ltd. (Unit ó II)	

#### Proposed Project Products and their Capacities

SN	Products	Capacity (MTPA)	SN	Products	Capacity (MTPA)
1	Single Super Phosphate	1,80,000	11	Sodium Silica Fluoride	1,320
2	Granular SSP	1,80,000	12	SulphurBentonite- Powder and Granular	10,000
3	Triple Super Phosphate	66,000	13	Oleum 23 %	990
4	Synthetic Gypsum	1,65,000	14	Oleum 65 %	990
5	Dicalcium Phosphate	3,300	15	Sulphuric Acid	66,000
6	Phosphoric acid	19,800	16	Sulphonic Acid	9,900
7	BRP (Through Put)	99,000	17	Liquid SO <sub>3</sub>	9,900
8	Alum ferric/ Non Ferric	33,000	18	ChloroSulphonic Acid	9,900
9	Zinc Sulphate	6,000			
10	Ferrous Sulphate	6,600			

#### **Project Setting**

Location	Saurai Industrial Area, Dist. Sagar, Madhya Pradesh	
Latitude	24° 2ø14.30ö N	
Longitude	78 ° 57ø22.51ö E	
Nearest Highway	NH- 86 (Approx. 800 m; South)	
Nearest Railway Station	Makroria (Approx. 18 km; South West)	
Nearest Village	Saurai (Approx. 1.5 km; West), Dilakhedi (Approx. 2 km; NE)	

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Nearest Town	Banda (Approx. 3.0 km; North East)
Ecological Sensitive Area	Nil
Nearest River	Bewas River (4.2 km; East)

#### **Total Land Area Distribution**

SN	Particulars	Area (m <sup>2</sup> )
1.	Total plant area	58,238
2.	Raw material storage area	13,535
3.	Finished good storage shed	2,420
4.	Thickener area	1,365
5.	Tailing pond	7,740
6.	Green belt area	80,000 <b>(34.2%)</b>
7.	Office Building	200
8.	Open Area	70,202
	Total Plot Area	2,33,704

Water Consumption-

- □ Construction Phase: 20kld; Operation Phase: 1820 kld
- □ Source: Bore well (1500 kld)

#### Power Requirement-

- Construction Phase : 500 KWH
- ❑ Operation Phase : 1
   ❑ Source : MPSEB 12,000 KWH
- Wastewater Management

SN	Wastewater	Management
1.	Hydrofluoro silicic acid	Stored in RCC FRP lined lagoon, silica will be
2.	Scrubber liquid	(100%) along with concentrated sulphuric acid for acidulation of rock phosphate.
3.	Effluent from Sulphuric Acid Plant	Treated in ETP and the treated effluent will be reused in the SSP process.
4.	Sewage (8 m /day)	Treated Sewage treatment plant with vermiculture technology.

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			Sewage slu developmen	dge and treated effluent ó green belt t.
Solid	Waste Management			
SN	Solid Waste	Quanti	ty(MTPA)	Management
1.	MS scrap	15		Collected and sold off to vendors or
2.	Corrugated box	2		authorized recyclers.
3.	Wooden scrap	3		
4.	MS drums	1.5		
5.	Polyethylene/ plastic scrap	0.5		
6.	Silica	1.5		Used as filler for packing SSP.
7.	Sludge from tailing pond	8		Used for brick preparation.

Hazardous Waste Management

SN	Hazardous Waste	Management		
1.	Hydrofluoro Silicic Acid	Reused in the SSP manufacturing process & for production of SSF.		
2.	Used Oil	Stored and sold off to recyclers.		
3.	Vanadium pentoxide catalyst waste	Stored and sold off to Government authorized disposal facility. (TSDF)		
4.	Sulphur Sludge	Used in SSP production for Sulphur enrichment.		
5.	ETP sludge	TSDF		

CSR Activity

SN	CSR Activity	Fund allocated (Annually)
1	SchoolEducation	2,00,000/-
2	Infrastructure & village development	4,00,000/-
3	Medical Facilities	2,00,000/-
4	Religious purpose	1,00,000/-
	Total	14,00,000/-

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After deliberations committee has approved the proposed TOR with inclusion of following points for carrying out EIA study and preparing EMP for the proposed project:

- 1. Public Hearing shall be conducted as per the provisions of EIA notification.
- 2. On-site emergency plan to be furnished.
- 3. List of the end products users especially the SSF, Alum etc.
- 4. Applicability of the MSICH Rules to be checked for storing various chemicals which might be covered under the said rules.
- 5. Necessary permission from CPCB to furnished for importing the Zinc dust and other similar hazardous wastes.
- 6. Compliances with regard to disposal solid wastes practices to be detailed out.
- 7. Details of land acquired and / or proposed to be acquired to be furnished along with the ownership status and supporting documents thereby.

**3. Case No. – 700/2011** Shri M. G. Choubey, Engineer-in-Chief, Deptt. of Water Resources, Tulsi Nagar, Bhopal - 462003 (M.P) <u>Datuni Tank Project Catchment Area- 181.61</u> Sq.km., Gross Storage Capacity – 51.02 MCM, Live Storage Capacity – 49.14 MCM Gross Command Area – 10206 ha. Cultivable Command Area 9073 ha., at Village – Sukhliya, Tehsil – Kannod, Distt. – Dewas (M.P.) EIA Presentation WAPCOS limited, New Delhi

This is medium irrigation project in with storage capacity of 51.02MCM. The project is coverd under EIA notification hence is required to obtain prior EC from SEIAA. The case was forwarded by SEIAA to SEAC for appraisal. The TOR was issued vide letter no. 300 dt. 20/06/12. The EIA and EMP were presented by the PP and his consultant before the committee, which reveals following:

**Project Components** 

Location		
Tehsil and District	-	Kannod/Dewas
River	-	Datuni River
<u>Dam</u>		
Туре		- Earthen dam
Total length of earthen portion	-	1290 m
Height above ground level	-	33.48 m
Top width of earthen dam	-	7.5 m
MDDL	-	343.0 m
Maximum Water level	-	362.65 m
Reservoir Data		
Gross Storage capacity	-	51.015 Mcum
Live Storage Capacity	-	49.135 mcum
Irrigation		
Gross Command Area	-	10206.16 ha
Culturable Command Area -	9073 ł	na
Proposed irrigation	-	8800 ha

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	Rabi Kharif		- -	7600 I 1200 I	na na	
Land H	Requirement					
S. N	Project Name	Forest land(ha)	R L	evenue and(ha)	Private Land(ha)	Total (ha)
1.	Dam & Reservoir	260.89	4	7.58	270.67	579.14
2.	Canal Network	7.5	-		191.4	198.9
	Total	268.39	4	7.58	462.07	778.04
Land use pattern: command areaType of landArea			Area	a (ha)	Percentage of command area	
Type of	fland		Area	a (ha)	Percentage of command area	
Dense	Vegetation		292		2.86	
Open V	regetation		2284		22.38	
Barren	area		4044		39.62	
Agricul	tural Land		3541		34.70	
River/	Water body		40 0.40			
Builtup	area/Settlements		5		0.05	
Total		1020	)6	100		
Socio e	conomic profile of	f command a	area		•	_
Parameter			Comman	nd Area villages		
Total Population			15294			
Male Population			7934			
Female	Population			7360		

12.5

33.98

42

Hydrology

Literacy rate (%)

- <sup>"</sup>No rain gauge station is present in the catchment area of the project
- There is an ORG establishment at tehsil office Kannod, Hence rain gauge data of Kannod is used
- " Aerial Distance of Kannod is about 9 km from Dam Site.
- " Rainfall data is available from 1960 to 2009
- <sup>"</sup> Surface water availability (75% dep. Yield): 46.81 Mm<sup>3</sup>

#### Impacts on various components:

Scheduled Caste Population (%)

Scheduled Tribe Population (%)

Land Acquisition for Various project appurtenances

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SN	Project Name	Forest land(ha)	Revenue Land(ha)	Private Land(ha)	Total (ha)
1.	Dam & Reservoir	260.89	47.58	270.67	579.14
2.	Canal Network	7.5	-	191.4	198.9
	Total	268.39	47.58	462.07	778.04

#### Immigration of labour and technical staff:

Domestic water requirements : 0.34 mld
Sewage generation : 0.27 mld

- BOD load from labour camps/colonies : 112.5 kg/day

É Sewage generated from various labour camps will be treated prior to disposal

# Impacts on Water Resources and Quality- Operation Phase

- " Impacts on downstream water users
- " Impacts on water logging and soil salinity
- " Impacts due to effluents from project colony
- " Impacts on downstream water quality

#### **Construction Phase:**

- Increased human interference
- Tree felling and clearing by labour population for using fuel wood and timber requirement.

#### **Operation Phase:**

- <sup>"</sup> Acquisition of 47.58 ha of Revenue land
- <sup>"</sup> Acquisition of 462.07 ha of Private and 268.39 ha of Forest land
- " Tree density in submergence area ó 84 trees/ha
- " Tree density near dam site ó 100 trees/ha
- <sup>"</sup> Increased fodder availability would reduce the pressure on existing pasture and vegetal cover
- Overall improvement in vegetal cover due to increase in soil moisture.

## Impacts on Socio-Economic Environment

#### **Improvement in productivity**

Crop	Before irrigation	After irrigation
Kharif		
Soyabean	12	25
Groundnut	10	25
Rabi		
Wheat Hybrid	12	40
Ordinary Wheat	10	40
Gram	8	30

#### Crop production before and after the project

Crop	Area (ha)	Yield (qtl/ha)	Yield (t/ha)	Production (t)
Without – Proiect				

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Kharif				
Groundnut	500	10	1.0	6400
Soyabean	700	12	1.2	8400
Rabi				
Hybrid Wheat	1100	12.0	1.2	13200
Ordinary Wheat	1500	10.0	1.0	15000
Gram	1500	8.0	0.8	12000
Total	5300			55000
With –Project				
Kharif				
Ground Nut	500	25.0	2.5	12500
Soyabean	1350	18	1.8	2430
Rabi				
Wheat 1 MV	2500	40.0	4	100000
Wheat 2 MV	3500	40.0	4	140000
Wheat 2 MV (lift)	800	40.0	4	32000
Gram	800	30.0	3	24000
Total	8800			326000

**Environmental Management Plan** 

#### **Biodiversity Conservation and Management Plan**

- ✓ Total forest area to be acquired is 268.39 ha and the total land proposed to be afforested is 537 ha
- $\checkmark$  There is no wildlife sanctuary, national park, etc. within the study area.
- ✓ No rare, endangered and threatened species are reported in the project area.
- ✓ Measures proposed for conservation and improvement of biodiversity:
- Forest Protection Plan
- > Public awareness for the protection of wild life and prevention of forest fires
- Improvement of Wildlife habitats
- Patrolling and surveillance for anti-poaching

# Fisheries management plan

- Release of environmental flows
- ✓ River is practically dry from October to June, i.e. non-monsoon-non lean season and lean season.
- ✓ It is recommended to release 30% of discharge in monsoon season as Environmental Flow
  - Sustenance & enhancement of fisheries potential through supplementary stocking of reservoir
    - Stocking density @ 300 fingerlings/ha
    - ➢ Fish seed requirement shall be 9.05 lakh
    - ➢ Nursery Pond : 9.6 ha

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- ▶ Rearing Pond : 0.6 ha
- Submergence area 579 ha
- $\blacktriangleright$  Fish production potential will be 50 kg/ha/yr in the reservoir.

# **Greenbelt Development Plan**

- " Green belt development 25 ha.
- <sup>"</sup> Inter-connecting/approach roads of various project components, working sites, etc. shall be covered with avenue plantation.
- <sup>"</sup> Available space will be brought under Greenbelt for plantation of fruit, ornamental and shade trees along with shrubs, climbers etc.
- <sup>"</sup> Along the road sides, 2 to 3 rows of ornamental trees shall be planted.
- " Saplings for Greenbelt shall be procured from nearby nurseries of the Forest Department.
- Width of greenbelt along reservoir periphery shall be about 4 ó 6 m.

#### **Control of Water Pollution**

Construction phase

- ó Provision of settling tank for treatment of effluent from construction site.
- ó Provision of STP for treatment of sewage generated from labour camp

Operation phase

ó Provision of STP for treatment of sewage generated from project colony

#### Control of Air Pollution

- É Construction equipment and vehicles will be turned off when not used for extended periods of time.
- É Contractor shall ensure that there is effective traffic management at site. The number of trucks/vehicles to move at various construction sites should be fixed
- É Road damage caused by sub-project activities will be promptly attended to with proper road repair and maintenance work.
- É Excessive soil on paved areas will be sprayed (wet) and/or swept and unpaved areas will be sprayed and/or mulched.
- É Contractors will be required to cover stockpiled soils and trucks hauling soil, sand, and other loose materials (or require trucks to maintain at least two feet of freeboard.

# Resettlement and Rehabilitation Plan

#### Details of project affected families

SN	Name of Village	No. of families losing homestead	No. of families losing land
1	Sukhaliya	127	104
2	Thikriya	162	104
	Total	289	208

#### **Measures for Resettlement**

- " Provision of land for house construction to the extent of actual loss of area of the acquired house but not more 250 sqm
- " House Building assistance of Rs. 150,000.
- <sup>"</sup> Financial assistance for construction of cattle shed -Rs. 15,000.
- <sup>"</sup> Land or house allotted to the affected families under this policy shall be free from all encumbrances.

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- <sup>"</sup> Land or house allotted to the affected families under this policy may be in the joint names of wife and husband of the affected family.
- Provision of land for house construction to the extent of actual loss of area of the acquired house but not more 250 sqm
- " House Building assistance of Rs. 150,000.
- <sup>"</sup> Financial assistance for construction of cattle shed -Rs. 15,000.
- <sup>"</sup> Land or house allotted to the affected families under this policy shall be free from all encumbrances
- <sup>"</sup> Land or house allotted to the affected families under this policy may be in the joint names of wife and husband of the affected family.

#### **Measures for Rehabilitation**

- <sup>"</sup> Compensation for land as decided by the District Administration
- <sup>"</sup> Each PAF shall be entitled to a rehabilitation grant equivalent to 750 days minimum agricultural wages
- <sup>"</sup> A provision of Rs. 10,000 per PAF is being kept for a one-time financial assistance to each khatedar in the affected family for loss of agricultural production
- <sup>"</sup> A provision of Rs. 500/month for 6 months for one person per PAF shall be given for training
- <sup>"</sup> One person from each affected family shall be offered necessary training facilities for development of entrepreneurship, technical and professional skills for self-employment
- <sup>"</sup> Scholarship @ Rs. 500 per month to atleast 1 child per PAF for a period of 1 year.
- <sup>"</sup> Preference to willing landless labourers and unemployed affected persons while engaging labour in the project during construction phase.

#### Budget for R&R plan

<b>S.</b> N	Components of R&R	Cost (Rs. million)
Α	Resettlement Plan	
1.	Land required for providing Housing plots @ 250 sqm to 289 house losers = 10.85 ha (including land for civic amenities and infrastructure facilities)	27.13
2.	House building assistance	43.35
3.	Financial assistance for construction of cattle-shed	4.34
4.	Financial assistance for shifting of the family, building materials, belongings and cattle	2.89
5.	Financial assistance for construction of working shed or shop	7.23
6.	Subsistence allowance	13.01
7.	Civic amenities and Infrastructure facilities at Resettlement colony	88.6
	Sub-Total [A]	186.55
В	Rehabilitation Plan	
1.	Land required under $\delta$ option = 2500 ha irrigated land in the command area	

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2.	Land development cost in case wasteland or degraded land is allotted	3.12
3.	Financial assistance for agricultural production	2.08
4.	Training to take on suitable jobs	0.63
5.	Scholarships	1.25
6.	Other Skill Development	0.63
7.	Training facilities for development of entrepreneurship, technical and professional skills for self-employment	1.25
8.	Rehabilitation Grant - in case õland for landö or õjobs in projectö are not given	23.4
9.	Additional Grant to ST families	3.75
	Sub-Total [B]	36.11
С	Project Monitoring & Evaluation [C]	2.00
	Total [A+B+C]	224.66

Local Area Development Plan

- A budget of 0.5% of the project cost has been earmarked for implementation of Local Area Development Plan (LADP).
- <sup>"</sup> It is suggested to up-gradation of school fixtures, equipment, etc., and to improve drinking water and sanitation facilities in 4 primary schools in the study area.
- " Up-gradation of school infrastructure, equipment
- " Improvement of drinking water and sanitation facilities
- <sup>"</sup> Up-gradation of 2 existing PHC as part of the LADP of the area
- " Furniture, Beds and other items
- " Up-gradation of Pathological laboratory.
- " Up-gradation of operation theater.

#### **Catchment Area Treatment Plan**

- É Catchment area Treatment Plan has been prepared using SYI method.
- É Delineation of subwatersheds in the catchment area.
- É Landuse pattern using satellite data, slope map using Survey of India toposheets, etc. has been prepared
- É Mapping of critically degraded areas based on Integration of Remote Sensing technique, GIS methodology and Silt Yield Index method.

É Prepared Catchment Area Treatment (CAT) Plan for sub-watersheds with high erosion intensity.

#### Area under different erosion categories

Category	Area (ha)	Percentage
Very low	-	-
Low	-	-

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Medium	10636	58.56
High	7525	41.44
Very High	-	-
Total	18161	100.00

# Cost for implementing Environmental Management Plan

S. N	Item	Cost (Rs. million)
1.	Bio-diversity conservation Plan	60.51
2.	Fisheries Management	20.50
3.	Environmental Management in labour camp	34.76
4.	Public health delivery system	16.96
5.	Restoration and Landscaping of construction sites	16.60
6.	Greenbelt development	1.50
7.	Air Pollution Control	2.86
8.	Water Pollution Control	1.50
9.	Energy Conservation measures	5.00
10.	Public Awareness Programmes	5.00
11.	Resettlement and Rehabilitation Plan	224.66#
12.	Local Area Development Plan	9.20
13.	Catchment Area Treatment Plan	54.52
14.	Disaster Management Plan	15.00
15.	Environmental Monitoring during construction phase	4.77
16.	Purchase of noise meter	0.15
17.	Purchase of meteorological instruments	0.70
	Total	474.19, say Rs. 474.2 million

# Issues raised in public hearing

SN	Suggestion/Complaint	Response of WRD
	One of the participants said that my	The said respondent is not among that PAFs, hence, his name
	house is not included in survey and	was excluded.
	names of my daughter and sonøs are	
	not included.	
	One of the participants said that the	Compensation will be allotted to the affected families as per
	land of Gram Thikriya is coming	the norms of National Rehabilitation and Resettlement Policy
	under submergence and proper	2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya
	compensation should be given	Pradesh PariyojanaKe Karan VisthapitVyakti (Punhsthapan)
		Adhiniyam, 1985 (MPPKKVVAó1985)

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1.	One of the participants said that construction of Project will affect agriculture and reserve forest land, so dam should not be constructed.	In the Datuni Medium Irrigation Project 260.87 ha Forest land comes under the submergence of head works and 7.50 ha of forest land comes in construction of canal i.e. 268.39 ha. Forest land affected in this project. For compensatory afforestation, 165.81 ha. revenue land in district Shajapur and 1.05 ha revenue land in district Ratlam has been allotted by Collector Shajapur and Ratlam to the concerned D.F.O. for the compensatory afforestation. The remaining land for compensatory afforestation is under the process of identification.
2.	Participants requested for the increasing in all type of compensation and compensation given as per guide line of 2013-14 gram Bagkheda Kilda	Compensation will be allotted to the affected families as per the norms of National Rehabilitation and Resettlement Policy 2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya Pradesh PariyojanaKe Karan VisthapitVyakti (Punhsthapan) Adhiniyam, 1985 (MPPKKVVAó1985)
3.	Participant requested that good compensation of well and pipe line, tree, and land etc.	Compensation will be allotted to the affected families as per the norms of National Rehabilitation and Resettlement Policy 2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya Pradesh PariyojanaKe Karan VisthapitVyakti (Punhsthapan) Adhiniyam, 1985 (MPPKKVVAó1985)
4.	Farmers insisted that the Government service should be provide to boys and girls of the affected/submergence area as per their ability.	Compensation will be allotted to the affected families as per the norms of National Rehabilitation and Resettlement Policy 2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya Pradesh PariyojanaKe Karan VisthapitVyakti (Punhsthapan) Adhiniyam, 1985 (MPPKKVVAó1985)
5.	Some of the participants raised their voice that the agriculture land, forest land and fruit tree are coming under submergence of dam and affect the environment and requested that the compensation should be given as per Bagankheda guide lines and constructed small dams.	Compensation will be allotted to the affected families as per the norms of National Rehabilitation and Resettlement Policy 2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya Pradesh PariyojanaKe Karan VisthapitVyakti (Punhsthapan) Adhiniyam, 1985 (MPPKKVVAó1985)
6.	Participants requested for the construction of dam earlier at the earliest so that they get the irrigation and will overcome the drought problem	Construction will start after completion of tender formalities.
7.	Participants requested to provide compensation as per the raised	Compensation will be allotted to the affected families as per the norms of National Rehabilitation and Resettlement Policy

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dearness for the land coming under	2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya
submergence and trees.	Pradesh PariyojanaKe Karan VisthapitVyakti (Punhsthapan)
	Adhiniyam, 1985 (MPPKKVVAó1985)

In general the PH was in favour of the project. The responses for various issues raised in the PH were satisfactory and acceptable.

After deliberations committee decided to recommend the case for grant of prior EC subject to the following special conditions:

- 1. Gross discharge in River Narbada to be studied and contribution of various macro- / micro- drainages to be evaluated whenever future projects are planned on this river.
- 2. Quality of all types of waters to be periodically monitored to optimize various parameters in future.
- 3. Regular Fluorideø monitoring to be done in the reservoir.
- 4. Salinity of the command area has to be periodically monitored so as to regulate the quality of dam water with respect to the TDS.
- Case No. 1714/2013 M/s Unichem Laboratories Ltd., Plot No. 197, Sector-1, Industrial Area
   Pithampur, Distt. Dhar (M.P.) ó 474775- Expansion/Modification of Drug Intermediate Plant of UNICHEM Laboratories Ltd. at Pithampur Industrial Area, Distt. ó Dhar( M.P.) Proposed Capacity: 400 MT/Year of different API'S, Existing Capacity: 155 TPA, Area ó 79819 m2 For TOR

This is a bulk drug industryoperating before the EIA Notification. The PP proposes to enhance the production quantity wise as well as number of products wise.

#### **Project Details**

SN	Particular	Detail
1.	Name of the Proponent	UNICHEM Laboratories Ltd.
2.	Name of Consultant	M/s Asian Consulting Engineers Pvt. Ltd. Certificate No. NABET/EIA/1013/012
3.	Location of the Unit	Plot No.197, 197B, 197A-197B, 196 & 196B, Sector- 1, Pithampur, Distt. Dhar
4.	Existing Mfg. capacity	155 TPA (No of products- 07)
5.	Proposed Mfg. capacity	400 TPA (No of products- 25)
6.	Total Area	Area : 79819 m <sup>2</sup>
7.	Estimated cost of the project	Approx. Rs. 40 cr.
8.	Power consumption	1100 kVA from MPSEB and DG Sets 2 No. (500 kVA)
9.	Fuel Requirement	FO ó 65 MT/month

**Existing Product Consent capacity** 

S.N.	Existing Consented Product Details	T/Year
------	------------------------------------	--------

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1	Settriline Hydrochloride	
2	LosartanPotassium/Telmisartan/EprosartanMesyalate	
3	Phenylephrine/Beryl Alcohol	
4	Phthaloyl Amlodipine / Amlodipine Bisilate	
5	Tamsulosin Hydrochloride/ Atomoxetine Hydrochloride/ Netiglinide	15
6	Leuflonomide/Venalafaxine Hydrochloride 10	
7	Lamotrigine/Alfozosin Hydrochloride/Zolpidom Titrate   2	
	Total	155

List of Proposed Products for Environment Clearance

S.N.	Product	Cap. MT/Y
1	Phenylephrine Hydrochloride	30
2	Alfuzosin Hydrochloride 4.0	
3	Memamtine Hydrochloride	10.0
4	Buspirone Hydrochloride	6.0
5	Setraline Hydrochloride	3.0
6	Atomoxetine Hydrochloride	2.0
7	Irbesartan	2.0
8	Olmesartan	4.0
9	Valsartan	2.0
10	Losartan Potassium	7.0
11	Telmisartan	8.0
12	EprosartanMesilate	40
13	Amlodipine Bisilate	15
14	Nateglinide	20
15	Lamotrigine	60
16	Zolpidem Titrate	6.0
17	Quetiapine	45
18	Ranolazine	30
19	Candesartan	2.0
20	Dronadarone	2.0
21	Cinacalcet	2.0
22	Cetrazine	15.0
	Cat II (Bulk Drugs Intermediates)	
23	Diamine	2.0
24	Taxol	3.0

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25	PthaloylAmlodipine 60	
Cateo	jory — lii	
26	R &D/Validation/Pilot plant product	20
	Grand Total	400

# **Project** Setting

SN	Particulars	Details
1.	Latitude and Longitude	Lat: 22° 37' 20" N, Long: 75° 41' 59" E
2.	Nearest city	Indore ó 36.0 km
3.	Nearest Railway station	Indore ó 40.0 km
5.	Nearest Airport	Indore ó 40.0 km
6.	Ecological Sensitive Area	No

# **Total Land Area Distribution**

SN	Particulars	Area
1.	Plant Building	20000 sqm (Total Area of factory 79819 sqm)
2.	Plantation Area	24000 sqm
3.	Roads	1000 sqm

#### Raw water consumption details

SN	Description	Existing Fresh Water	Proposed kl/day
		Requirement, kl /day	
1.	Cooling Tower	12	25
2.	Boiler	12	25
3.	Process including washing, cleaning solution preparation and in wet alkali based scrubber where by waste water generated and are non-biodegradable	15	40
4.	Domestic Purpose	4	15
Tota	1	50	105

Wastewater Generation

SN	Product / Stream	Existing Effluent Generation	ProposedEffluent generation CU.MT./DAY	COD- AVG. mg/liter	Pollution load- avg. Kg/day
1.	Cooling Tower	2	5	2000	10
2.	Boiler	2	5	1000	2.0

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3.	Process	15	50	15000	750
4.	Domestic	3	12	170	2.55
TOTAL		22	72	4542	340

**Hazardous Waste** 

Particulars	Category	Existing Qty.in Ton	Proposed Qty .in Ton
Used oil	5.1	0.500	3.0
Distillation residue	20.3	6.0	25.0
Spent Catalyst/ Activated carbon	28.2	5.0	20
Date Expired, Discarded & off specification drugs,/Medicine	28.4	1.0	5.0
Spent organic	28.5	70	500
Discarded containers	33.3	1.8	5.0
Chemical sludge	34.3	8.0	50.0

After deliberations committee has approved the proposed TOR with inclusion of following points in the TOR to carry out EIA and prepare EMP:

- 1. Worst scenario w.r.t. water and Air pollution from the proposed activities have to be detailed out and accordingly the suggested mitigations to be furnished in the report.
- 2. Mass balance of all the solvents proposed to be used has to be given clearly mentioning the loss of various solvents in the process.
- **3.** Product wise raw material, their mass balances, processes and water balance to be furnished in the report.
- 4. Treatability study of all the components of the ETP to be detailed out reporting in-let and out-let characteristics of effluent of each of the ETP components.
- 5. Details of the proposed up-graded ETP with justifications to be provided.
- 6. Details of packaging and mode of transport of materials to be furnished.
- 7. Consent of AKVN for supply of required water to be furnished.
- 8. Expected TDS in the RO reject to be reported along with the disposal options for the same.
- **9.** Compliances of the terms and conditions of the consents / Authorization have to be detailed out in the report as a separate chapter. PP shall also submit a certified report from MPPCB for compliances along with recommendations of the MPPCB.
- **10.** Collection of post-monsoon data is reported to be started from 15<sup>th</sup>September, the same can be used in the report.
- 5. Case No. 1127/2013 Smt. Kamlesh Singh, W/o Shri LakhanPratap Singh, Village Itour, P.O. – Rajrwar, Tehsil – Kotar, Distt. – Satna, (M.P.) – 462032 Chitgarh Ochre, Laterite, White

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Clay Mine ó 20000 TPA to 80,000 TPA,atKhasra No. 62/1 k, Teh. ó Kotar, Distt. ó Satna (M.P.) Lease Area ó (12.10 Acre) 4.89 Ha. Lease Period ó 20 Year (Up to 08/11/2019). **EIA Presentation.** 

#### Project background

The lease was sanctioned over an area of 4.89 Hect (or 12.10 Acre) of Khasra 62/1 to Smt. Kamlesh Singh W/oShriLakhanPratap Singh vide State Govt. Order no. 3-33/05/12/1, Bhopal dated 22/09/09 for 20 Years, near village Chitgarh, Tehsil RampurBaghelan& District Satna (Madhya Pradesh).

□ The lease has signed agreement with State Government on 09-11-2009 and registered on 18-11-2009 for period of 20 Years that is valid upto 8-11-2029.

□BhuPravesh has been carried out and permission to start the quarry in the lease area has been authorised by The Collector, Satna (M.P.) vide consent letter no. 114Aa67/2009-2010, Dated 17.05.2010.

□ Mine was open on 20-05-2010.

□Modified Mining Plan has been Approved vide letter No. MP/Satna/Laterite/MPLN-Modi-19/11-12, Dated 27.8.12

□ T.O.R. for grant of mining lease and Enhancement in targeted production was obtained vide letter No. 464/PS-MS/MPPCB/SEAC/TOR(120)/2013, Bhopal dated 25.04.2013.

□ Public Hearing held on 07.07.2013 near mine site.

#### **Project Details**

v			
Type of land	Govt waste land		
Khasra No.	Part 62/1 Ka		
Existing & Proposed capacity	Production of Laterite from 20,000 MTA to 80,000 MTA		
Mining method	Opencast semi-mechanized method.		
Dimension of benches	3 mts. in Overburden bench and 6 mts. height in mineral benches.		
Stripping ratio (Mine. in MT & OB in cu. Mts.)	1:0.027		
Life of mine	5 years (based on reserve established and targeted production).		
Present working depth	320 mRL		
Ultimate Pit Limit	314 mRL to 295 mRL		
3,00,031 MT			
Colour: Brownish RedForm: Pisulitic Hardness : 3-5Sp. Gravity : 2.70 T/Cu mts.			
Silica as SiO2: 14.11% to 17.15%			

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Ferric Oxides as Fe2O3 : 56.80% to 49.71% Alumina as Al2O3 : 12.02 % to 14.60%

#### Location

011	
Village	Chitgarh
Tehsil	RampuraBaghelan
District	Satna
Latitude	24°45ø31.1ö to 24°45ø45.2ö N
Longitude	81°03ø5ö to 80°03ø59.7ö E
Topography	Undulating small hilly
Distance from nearest town	Satna, 12 kms.
Nearest Railway Station	Jaitwara - 8 kms.
Nearest major water bodies	AsrawalNala 3.5 Km. East, SimrawaiNadi 7.5 Km.

### Phase Wise Conceptual Plan of the Core Zone

SN	Particulars	Existing land	After Proposal of	At the end of Mine life
		use pattern	2 years	
1.	Mining Pits	0.8734	1.4408	2.2422
2.	Overburden	-	-	-
3.	Infrastructure	-	-	-
4.	Roads	0.0236	0.0236	0.0200
5.	Green Belt **	-	1.00	1.1000
6.	Plantation inside lease area **	0.12	0.12	0.1200
7.	Plantation on waste dump**	-	-	-
8.	Others	-	0.0025	-
9.	Reclamation ** (Backfilled)	-	0.0630	0.4000
10.	Rain water collection pond **	0.20	0.50	1.8422
11.	Total Used Area	0.8970	1.4669	2.2622
12.	Total Unused Area	3.9930	3.4231	2.6278
	Total	4.8900	4.8900	4.8900

#### Sources of Pollution & Emission Factor

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SN	Source	Activity	
1.	Exposed Area	Overburden	
		Pit surface	
2.	Mineral	Loading	
		Unloading	
3.	Overburden	Loading	
		Unloading	
4.	Stock yard	Mineral storage	
5.	Road	Transport	
		Haul road	

#### Increase in Air Pollution and Expected SPM

Receptor location	X coordinate (m)	Y coordinate (m)	Predicted increase in GLC $(\mu g/m^3)$
Paruhar	10260	15400	0.000
Nimoha	9380	11900	0.000
Rakhonda	10600	9400	4.013
Tihai	3300	7000	0.024

**Proposed C.S.R. Activities** 

SN	Detail	Expenditure
Pro	posed Medical & Health	
1.	Proposed health camps two	50,000
2.	Helping to villagers in case of serious illness and health awareness programmes	50,000
Pro	posed Educational	
3.	Educating the workers on First Aid & Mate classes and other educational needs	50,000
4.	Contribution in School	50,000

After deliberations committee found the EIA / EMP and other submissions satisfactory and acceptable <u>hence</u> the case was recommended for grant of prior EC subject to the following special conditions:

1. The CSR budget shall be Rs 2.5 Lac per year as committed by the PP during the presentation. The CSR shall be executed through Gram Sabha and / or Local Administration.

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- 2. Production capacity shall not exceed 80000 TPA.
- 3. At the end of mine life 0.4 Ha shall be back-filled and under plantation as per the scheme submitted and 1.8422 Ha shall developed into a planned water reservoir. The reservoir shall be appropriately fenced and gently slopped, to avoid accident.
- 4. The water shall be supplied to the villagers if demanded.

# 6. Case No. – 1522/2013 M/s Fortune Builders, Partner Shri Ajay Mohagaonkar and Shri Sameer Gupta, Fortune House, 157, Zone-I, M.P. Nagar, Bhopal – (M.P.) - 462018 Building Construction.

"Fortune Signatureö at Survey No. ó 147/7/1ka, 147/7/1kha, 147/5/3, 95/1/kha/2, 147/7/3, 147/7/4, 147/7/5, 147/9/kh, 147/9/kha, 147/9/jha, 147/9/1/1/1, 147/9/1/1/2, 147/9/1/1/8, 147/7/2, Village- BawadiaKalan, Tehsil - Huzur, Distt. ó Bhopal (M.P.)Total Land Area – 30713.0 sq.mt., Total Built Up Area – 45383.72 sq.mt.

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.

7. Case No. - 1524/2013 M/s Fortune Builders, Partner Shri Ajay Mohagaonkar and Shri Sameer Gupta, Fortune House, 157, Zone-I, M.P. Nagar, Bhopal - (M.P.) - 462018 For- Building Construction. Proposed Township Project "Fortune Kasturi" at Khasra No. - 8/1/13K, 8/2/1/1, 11/1/2, Village- Jatkhedi, Tehsil - Huzur, Distt. - Bhopal (M.P.) Total Plot Area - 18285.73 sq.mt., Proposed Built Up Area - 29654.033 sq.mt.

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. - 1306/2013 M/s Highway Infrastructure Pvt. Ltd., 57-FA, Scheme No. - 94, Pipliyahana Junction, Ring Road, Indore (M.P.) Building Construction." New York City " of M/s Highway Infrastructure Pvt. Ltd.at Khasra No. - 969/1/3, 970/2, 970/3, 971/2, 972/1/2, 973/2/1, 975/3/1,973/1/3, 975/1, 974/1/2, 975/2 Village- Nihalpur Mundi, Tehsil - Indore, Distt. - Indore (M.P.)Total Land Area - 52500.00 sq.mt. (5.25 Ha.) Total Built Up Area - 45357.98 sq.mt.

This is a building construction project comprising total land area of 52500 m2 (5.25 Ha) and total built-up area of 45357.98 m2. The project falls under the purview of EIA Notification hence requires prior EC before commencement of activity at site. The application along with the documents was forwarded by SEIAA to SEAC for appraisal and recommendations. The case was presented by the PP and his consultant before the committee. The presentation and the submissions made by the PP reveals following:

[S.C. Jain, Chairman]

[V.Subramanian, Member]

[K.P. Nyati, Member]

[Ms Mohini Saxena, Member]

#### Salient Features of The Project

Area details:-

1 11 0	<u>a ucturist</u>			
SN	Description	Area	Percentage	
		Sq.M.		
1	Total land area	52500.00		
2	Area under 60.0m road	(-)363.13		
3	Area under 45.0m wide control area	(-)1760.50		
4	Net plannig area	50376.37	100	
	Break up of net plannig area			
5	Area under shopping mall/entertainment building plot	5000.4	9.93	
6	Area under hotel building plot	1007.00	2	
7	Area under row housing scheme	22028.01	43.73	
8	Area under multi-unit residential development scheme	20811.00	41.31	
9	Area under informal sector	1437.00	2.85	
10	Area under community sector	92.96	0.18	
		50376 37	100	

#### S.T.P Details

SN	Parameters	Unit	Raw Sewage	Treated Sewage
01.	Flow	cum/day	610	550
02.	pН		6.0 ó 7.0	6.5 ó 7.5
03.	C.O.D.	mg/l	350 ó 450	< 50
04.	B.O.D.	mg/l	250 ó 300	< 10
05.	Suspended Solids	mg/l	200 ó 300	< 10
06.	Oil & Grease	mg/l	10 ó 15	< 10

A complaint was also forwarded by SEIAA from some local resources of Indore, stating that a crusher is operating in the premises of the proposed project and that construction has been initiated at site. After deliberations committee has asked the PP to submit clarification and information on following issues along with the supporting documents:

- Complete details of the proposed STP to be furnished.
- Status of construction (if any) at the site, along with the notarized copies of necessary permissions obtained from Town & Country Planning Deptt and other concerned authorities to be furnished.
- Lay out showing green area proposed in the project along with the map.
- Commitment / Permission from the competent authority for supply of water for the project during construction as well as operation phase.
- MSW Management with details of collection, storage and disposal of the same. (complete scheme)
- Water balance showing the ultimate disposal of the excess treated sewage.

# **9. Case No. –1667/2013-** M/s Singh Developers Pvt. Ltd. Through ShriShashidutt Gangrani, Director, F-11, Darulhabib Complex, Roxy Road, Gwalior (M.P.) – 474001 For – Building

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**Construction.** - Residential Project M/s Singh Developers Pvt. Ltd., at Khasra No. – 327, 342, 343, 344, Village – Ohadpur, Tehsil – Gwalior, Distt. – Gwalior (M.P.) Plot Area – 12,550 M2, Built up Area – 45,125.85 M2. (CF 135 SEAC Meeting dt. 04/06/13)

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. - 1712/2013- Shri Sunny Gaur, MD M/s Jaiprakash Associates Ltd., Sector – 128, Noida (U.P.) - 201304 ToR Jaypee Bela Coal Beneficiation Plant Lease Area – 2.250 ha., Capacity – 0.95 MTPA (In the premises of existing Jaypee Bela Cement Plant at Bela) at Khasra No. – 637, 650, 653/2/1, 127 Village – Bela, Tehsil – Huzur, Distt. - Rewa(M.P.)

This is a case of Coal Washery within the existing Cement Plant for captive use. Capacity of the proposed washery is 0.95 MTPA. The project requires prior EC from the SEIAA as per the provisions of EIA Notification. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR for the project to carry out EIA and prepare EMP. The case was presented by the PP and his consultant, which reveals following:

#### **Project Background**

- Jaiprakash Associates Limited (JAL) proposes to set up a Coal beneficiation Plant at Jaypeepuram, Village-Bela, Tehsil-Huzur, DistrictóRewa (M.P.) of 0.95 MTPA capacity.
- > JAL has large Integrated Cement Complex of 7 MTPA capacity at one location, comprising of .
- JaypeeRewa Cement Plant :Clinkerisation unit, Cement grinding unit, Captive Power Plant & Captive Mines.
- Jaypee, Bela Cement Plant :Clinkerisation unit, Cement grinding unit, Captive Power Plant & Captive Mines.
- ➢ Above Cement plants have Coal linkage with SECL. However, the supply during the last few years from the linkages is of much inferior grade coal having ash content of 42-46%.

Coal beneficiation Plant is proposed in the existing premises of JaypeeBela Cement Plant (JBCP).

#### **Project proposal**

- JaypeeBela Coal Beneficiation plant has been proposed for processing of 0.95 million tonnes of raw coal per year to get optimum recovery of clean coal which would be used in cement plants at Rewa and Bela.
- > The remaining low calorific value coal shall be used in Captive Power Plant at Bela&Rewa.
- Proposed project falls in Category -Bø, project or activity (2a) as per EIA notification 2006
- ► Capital cost of the project is estimated as Rs. 30.0 Crores

#### Salient features of site

Sn	Particulars	Details
1	Elevation	307 m amsl
2	Nearest City / Town	Rewa 13 km

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[V.Subramanian, Member]

[K.P. Nyati, Member]



3	Nearest Highway	NH-7, approximately 4.5 kms	
4	Nearest Railway Station	Turki Rly. Stn 2 km	
5	Hills / Valleys	Nil in the proposed project site	
6	Archaeologically important places	None in the 10 km radius of the study area	
7	National Park / Wildlife Sanctuary	None in the 10 km radius of the study area	
8	Reserved/Protected Forests	None in the 10 km radius of the study area	
9	Industries	JaypeeRewa Cement Plant - 4 km JaypeeBela Cement Plant - adjacent	
10	Water bodies	Bansagar Canal ó 400 mtrs. NW Kariar River ó 900 mtrs. NW Bihar River ó 11.5 K.M. E	
11	Seismic Zone	Seismically this area is categorised under Zone- II as per IS 1893(Part -1)-2002	
12	Eco-sensitive zone	No eco-sensitive zone in vicinity, SoneGhariyalSanctuary is approx. 40 km and Panna Tiger Reserve is approx. 105 km	

#### Salient features of proposed coal beneficiation unit

SN	Feature	Details
1	Capacity	0.95 MTPA
2	Process	Heavy Media Cyclone Technology
3	Land Requirement	2.25 Ha is proposed to be used within the JaypeeBela Cement Plant premises (68.442 ha land already in possession of JAL). No additional land requirement
4	Power requirement	1.5 MVA , To be sourced from existing CPP
5	Water requirement	$275 \text{ m}^3/\text{day}$ , Water will be sourced from existing reservoirs No additional water allocation required
6	Coal requirement	0.95 MTPA, Source - Existing coal linkage of SECL
7	Man power	Construction - 60 persons, Operation - 40 persons

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#### Coal Analysis (CPP & Cement)

Test Parameters	Values
Moisture	8-14 %
Coal Ash	40-46 %
Volatile Matter	21-30%
Fixed Carbon	30-35%
GCV k.cal/kg	3065 ó 3900
Sulphur	0.40 %

# Land use of project site

- > Total land of Jaypee Cement Plant Premises is 68.442 ha.
- Land requirement for coal beneficiation unit 2. 25 ha. (already in possession) within the JBP premises

F ·		
S. N	Details	Area in hectares
1	Process Plant	1.2
2	Coal Stock pile	0.30
3	Green Belt	0.75
	Total	2.25

#### Water consumption

- Capacity of Rain water Reservoirs in JRP mined out area : 24,40,000 M3
- $\geq$ Water available in working mining pits at JBP mines : 2,00,000 M3

_	Total water available	: 26,40,000 M3	
SN	Particulars	Qty in m3 /Annum	Quantity (m <sup>3</sup> /day)
1	JaypeeRewa Cement Plant (JRP)	10,00,000	2740
2	Captive Power Plant at JRP (CPP-I & CPP-III)	7,00,000	1920
3	Captive Mines	65,000	180
4	JaypeeBela Cement Plant (JBP)	4,30,000	1180
5	Captive Power Plant at JBP (CPP-II)	75,000	200
6	Proposed coal washery	1,00,375	275
	Total	23,70,375	6495

Water Requirement in Coal Washery

Purpose	Water Required (in m3 /day)	
Process	240	
Dust Suppression	10	
Drinking & Office Use	5	
Green Belt	10	
Others	10	

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[Ms Mohini Saxena, Member]

#### 140<sup>th</sup> MEETING 30<sup>th</sup> August 2013

TOTAL	275

#### **Process description**

- Clean coal from TBS will be delivered to the TBS Product sump and then pumped to a TBS Product Classifying Cyclone.
- The clean coal products from the CC, D&R screen and TBS product sieve will be further dewatered in a basket type centrifuge prior to delivering to the clean product belt conveyor.
- Overflow from raw coal clarifying cyclone will be sent to the Thickener for recovery of clarifying water to be reused in the process.
- > The make-up water will be added to the clarified water tank.
- Thickener under flow will be pumped to Plate & Frame Pressure Filter (PNF) for recovery of slime and fine coal.
- > Water recovered from the filter will be put back to thickener for recycling.
- ▶ Raw coal of -50 mm size will be supplied @200 TPH.
- > Process water will be added to the deslime screen feed.
- > Deslime screen over product will be discharged to HM blend tank and pumped to HM cyclone.
- > The HM cyclone will separate the 50 mm $\times$ 1 mm clean coal and rejects.
- The clean coal will be delivered to a clean coal õDrain and Rinse (D&R)ö and sink material to a reject (D&R).
- Imm raw coal collected from desliming screenøs under flow will be pumped to Raw Coal Classifying Cyclones for separating 1- 0.25 mm coal.
- > The 1mm  $\times$  0.25 mm RC Cyclone underflow will be piped to a Teeter Bed Separator (TBS).
- > The TBS reject will be delivered to a sump and then pumped to a classifying cyclone where the underflow product will report to the reject D&R screen for dewatering.
- Clean coal from TBS will be delivered to the TBS Product sump and then pumped to a TBS Product Classifying Cyclone.
- The clean coal products from the CC, D&R screen and TBS product sieve will be further dewatered in a basket type centrifuge prior to delivering to the clean product belt conveyor.
- Overflow from raw coal clarifying cyclone will be sent to the Thickener for recovery of clarifying water to be reused in the process.
- > The make-up water will be added to the clarified water tank.
- Thickener under flow will be pumped to Plate & Frame Pressure Filter (PNF) for recovery of slime and fine coal.
- > Water recovered from the filter will be put back to thickener for recycling.

#### C S R

In this region JAL is actively involved in community development of surrounding 28 villages near Plants and Mines, through Comprehensive Rural Development Program (CRDP) by JaiprakashSewaSansthan õa Not for Profit Trustö.

- ✤ Health Care Centre
- School & Community Centers
- Road & Drainage, Sanitation

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- Drinking Water facilities
- Strengthening of civic infrastructure
- Financial assistance in exigency
- ✤ Self Help Group Scheme
- Women Empowerment
- ✤ Women & child Health care

Description	Amount (Rs lac)
One Time Capital expenditure	1752
Recurring Annual Expenditure since last 5 years	312

After deliberations committee has approved the standard TORsø for the project with inclusion of following points to carry out EIA and prepare EMP:

- MoEF Certified compliance report for the conditions of EC issued for the Cement Plant shall be submitted.
- Source of water with appropriate permission from the competent authority has to be furnished.
- Plant specific CSR already taken up and that proposed has to be dealt in detail.
- The base line data collection as reported to be under collection may be used in the report.
- Public Hearing has to be conducted.
- Sub-committee may plan to visit the site to verify the CSR and EMP implementation.
- Other standard TORsøshall be applicable.

#### 11. Case No. - 1713/2013 M/s Sharda Maa Enterprises Pvt. Ltd., Kanchenjunga Building, UGF 1 & 2, 18 Barakhamba Road, New Delhi - 110001 <u>TOR</u> Bijuri Coal Beneficiation Lease Area – 8.1 ha., Capacity – 0.9MTPA Coal Washery at Khasra No. – Village – Mantola, Tehsil – Kotma, Distt. -Anuppur(M.P.)

This is a case of Coal Washery within the existing Cement Plant for captive use. Capacity of the proposed washery is 0.90 MTPA. The project requires prior EC from the SEIAA as per the provisions of EIA Notification. The application was forwarded by SEIAA to SEAC for scoping so as to determine TOR for the project to carry out EIA and prepare EMP. The case was presented by the PP and his consultant, which reveals following:

#### **Project Details**

- Type of Project : Wet Washing of ROM Coal
- Source of Coal: From nearby mines located in Jamuna, Kotma area, Hasdeo area, Sohagpur and Chirimiri area.
- Transportation of ROM Coal, Clean Coal Rejects: 3000 TPD by Dumpers from Mines + 3000 TPD by Dumpers to Bijuri Railway Siding

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- Alternate Sites: 3 Sites Considered
- Kurja village close to Bijuri Railway Siding (Not considered further because it is located on coal bearing area)
- Kotma close to Kotma Railway Siding (Not considered further because it is located near populated area
- Mantola village (Considered because land is available and it is feasible to move coal from mines and to siding, besides the site meets the siting criteria guidelines wrt Highway, River, Densely Populated Area)
- Land: 19.102 acres (8.1 ha) non-forest land.
- Land Type : 2.5 acres agriculture, balance barren land
- Statement of ownership of land (Panchshala P-II) submitted
- Water Requirement & Source : 119.5 KLD, Ground water
- Power Requirement : 500 KVA from State Electricity Board
- Manpower : 75 people (Direct) 100 people (Indirect)
- Project Cost : 15.0 Crores
- District Head Quarter Anuppur : approx. 20 km.
- Nearest Town Kotma: approx 10 km.
- Bijuri Railway Siding : approx 7.5 km (aerial);15 km by road

#### Type of receptors within 10 km radius of the project site

- É National park, wildlife sanctuary, Biosphere Reserve ó None (Certified by Forest Dept)
- É Nearby Forests 1. NandLalPatera Reserve Forest (8.5 km. NE to SE)
  - 2. Mangla Reserve Forest (6.2 km East)
- É Chhattisgarh State Boundary : 15 km away (Certified by Local Administration- NayabTehsildar)
- É NOC from MantolaPanchayat : Obtained
- É Water bodies 1. Kewai River (0.8 km West of site),
  - 2. KarnalNala (1.5 km North of the Site)

Entrepreneur Memorandum obtained from District Trade & Industries Centre, Anuppur for 900000 tons coal Land Break-up

Sr. No.	Description	Area (Ha)
1	Land for Washery	2.00
2	Land for Reject Disposal Area	1.05
3	Land For Greenbelt Development	2.67
4	Land for Coal Storage Yard and Truck Tripling System Yards	1.10
5	Land for Raw Water Reservoir	0.40
6	Land for Fabrication/Construction Yard, etc.	0.50
7	Others	0.38
Total		8.10

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#### Analysis of ROM Coal

	Coal Quality Parameters	Value Range
1	Moisture % (Equilibrated Basis)	5.0 - 6.6
2	Ash % (Equilibrated Basis)	28.0 ó 42.2
3	Volatile Matter % (Equilibrated Basis)	24.4 ó 27.9
4	Fixed Carbon %	28.4 ó 39.3
5	Gross calorific Value (Kcal/kg)	3800 ó 5000
6	Useful Heat Value (Kcal/kg)	3628
7	Grade	E/F
9	Hard Grove Grindability Index	52
10	Ultimate Analysis (on dmmf basis)	
	Carbon %	79.8 ó 81.6
	Nitrogen %	1.4 ó 1.5
	Hydrogen %	5.0 - 5.1
	Sulphur %	0.4 ó 0.6
	Oxygen % (by difference)	11.9 ó 13.3

#### Washability Characteristics

Specific Gravity.	Fractional Test		Cumulative Test	
	Wt%	Ash%	Wt%	Ash%
- 1.40	14.48	14.80	14.48	14.80
1.40 ó 1.50	28.94	27.10	43.42	23.00
1.50 ó 1.60	26.32	35.70	69.74	27.79
1.60 ó 1.70	12.32	44.80	82.06	30.35
1.70 - 1.80	7.55	53.72	89.61	32.31
+ 1.80	10.39	73.69	100.00	36.61
Total	100.00	36.61		

After deliberations committee has approved the standard TORsø for the project with inclusion of following points to carry out EIA and prepare EMP:

- Source of water with appropriate permission from the competent authority has to be furnished.
- Proposal for -Zero Dischargeøhas to be elaborated.
- Plant specific proposed CSR has to be dealt in detail.
- Public Hearing has to be conducted.
- Other standard TORsøshall be applicable.
- 12. Case no. 720/2012 Smt. Manisha Nayak, M/s Sohini Agency Pvt. Ltd., Nayak House, 114 Manbhawan Nagar, Madaorao Sindhiya Chauraha, Indore (M.P.) - Bijaiyan Laterite & Quartz

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Deposit MineatKhasra No. - 59 Part, 88 Part, 90 Part, 91 Part, and 92 Village ó Bijaiyan, Tehsil ó Sihora, Distt. ó Jabalpur (M.P.) **Area- 16.87 ha.,** Capacity & Minerals: Laterite & Quartz mine ó 10,000 MTPA. **EIA Presentation.** 

This is a mining project in lease area of 16.87 Ha. Laterite and Quartz are proposed to be mined out with capacity to the tune of 10000 MTPA. The EIA report was forwarded by SEIA to SEAC for appraisal and recommendations. The case was presented by the PP and his consultant before the committee, which reveals following:

#### **Location and Approach**

É	Site	:		Village Bijaiyan
É	Tehsil	:		Sihora
É	District	:		Jabalpur
É	Location	:		Toposheet No. 64 A/3
É	Khasra No	:		59 part, 88 part, 90 part, 91 part & 92
É	Latitude	:		23 <sup>0</sup> 21 <sup>ø</sup> 13 <sup>°</sup> to 23 <sup>0</sup> 21 <sup>ø</sup> 37 <sup>°</sup> North
É	Longitude	:		80 <sup>0</sup> 11 <sup>0</sup> 03 <sup>o</sup> to 80 <sup>0</sup> 11 <sup>0</sup> 50 <sup>o</sup> East
É	Road Connectivity	:		Jablapur - Sihora (NH ó 7)
É	Project category		:	õBö less then 50 hectare

#### **Public Hearing Details**

- ◆ Public hearing has been conducted on 05.06.2013, at Mine site & Chaired by ADM, Jabalpur.
- 56 people have attended the hearing and observed that people of nearby areas are in favour of mining project and they are getting employment from it. Five of them registered their opinion in writing.
- $\boldsymbol{\bigstar}$  The issues raised were duly addressed and clarified.
- During public hearing people of the nearby area have told that socio economic condition in the vicinity will improved due to employment generation.

#### Statement of issues raised by the public during the Public Hearing

SN	Name & Address of the	Issues raised in brief	Comments of the applicants
	Person		
1.	Smt. Dropti Bai, Village Bijaiyan, Tehsil	I do not have any land hence Govt. should grant patta of land so that I can	No comments.
	Sihora, Distt. Jabalpur	take care of my bread & butter.	
2.	Shri Purshottam Lal Yadav Village Banjar Tehsil Sihora, Distt. Jabalpur	Employment will be increased and development of the village will be there due to opening of mine. Road should be provided in the villagers.	Preference will be given to local people in employment. necessary help will be given in development of road and village. Budget for Road ó 50,000/- per year
3.	Shri Hulker Singh	The whole village comes in the Khara	Only part of the Khasra No.
	Village Bijaiyan, Tehsil Sihora, Distt. Jabalpur	No. 59 of the mine lease. There should not be any problem to us due to opening	59 is in the mine lease which do not include village

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				of mine.		residential area. There will not be any problem due to opening of the mine.	
	4.	<ul> <li>4. Shri Shyam Lal Patel We do no opening of Sihora, Distt. Jabalpur work a con which will p mine and problems. T help shoul Preference people in er</li> <li>5. Shri Hemraj &amp; Other Village Bijaiyan, Tehsil Sihora, Distt. Jabalpur the village. pump and v in the land visit shoul preference people in er</li> </ul>		ot have any objection from the mine. Before start of the mmittee should be constituted point out the problem from the the company will solve the The area is less educated hence Id be given in education. should be given to local mployment.	The work will be done with the cooperation of all in the villagers. Necessary assessment will be given in the education. Preference will be given to local people in employment.		
	5.			There are GoudAdivasi residing in the village and there are approx. 75 houses in the village. There is eclectic line, hand pump and well. There is one 5 acre pond in the land which is demanded. Hence the lease should be cancelled.		The houses, road, Hand pump, well and pond are outside of the lease area. The lease has been sanctioned by the Government as per rule.	
Budg	get fo	or Im	plementation of wor	·k as comm	itted during public hearing		
	S	. N 🛛	Particulars	Amo	unt		
	1	]	Making Village Road	ls: Rs. cunst	50,000/- per annum for repiring of village roads in a latentiation with panchayat and locals.		
	2.	. ]	Education / School	Rs. 1 schoo Rs. when	10,000/- / year for distribution ol. 10,000/- / year for repairing on required.	of stationary in primary	
Deta	ils of	f Envi	ironmental Setting		•		
	S	. No.	Particulars		Details		
	1.		Locations				
			Village		Bijaiyan		
			Tehsil		Sihora,		
		District & State			Jabalpur (M.P.)		
			Khasra no.		59 part, 88 part, 90 part, 91 pa	rt & 92	
	2.		Lease area		16.87 ha		
	3.	3. Latitude Longitude			232113 to $232137$ North 801103 to $801150$ Fast		
	4.	•	Nearest City		Sihora ó 28 km		

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5.	Nearest Railway Station	Gosalpuró 14.0 km - SE
6.	Nearest Airport	Jabalpur - 50.0 km
7.	Nearest Tourist Place within 10km radius.	None
8.	Ecological Sensitive Areas (Wild Life Sanctuaries) within 10km radius.	None
9.	Nearest Village	Bijaiyan is 1.0 km
10	Nearest Highway	National Highway-7, 11 km
11	Other mines within 5 km radius	3 Nos.

#### **Reserves and Chemical Composition**

S. No.	Constituent	Laterite	Quartz
1.	LOI	13.40 %	0.90 %
2.	Silica	10.80 %	92.40 %
3.	Alumina	13.0 %	5.64 %
4.	Iron Oxide	58.60 %	0.40 %
5.	Titanium Oxide	3.80 %	-
6.	Undetermined	0.40 %	0.66 %

The total geological reserves ó 82320 tones

# **Details of Mining Lease Area**

S.No.	Description	Details
1.	Name of mine lease	M/s Sohini Agency Pvt. Ltd.
2.	Mining lease area	16.87ha
3.	Method of mining	Opencast manual method
4.	Capacity of mine	10,000 MTPA
5.	Expected life of mine	9 years
6.	Pit slope	30°
7.	Date of expiry of Mining Lease	18.05.41
8.	Total Reserves	82320 ton
9.	Average no. of working days per year	250
10.	Number of shift	1
11.	Working hours per shift	8 hours
12.	Striping Ratio	1:0.03
13.	Thickness of Overburden	0.5 m

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14.	Ultimate depth of mine	20 m
15.	Water Table	433 mRL
16.	Water requirement	10.0 kl
17.	Transport of minerals	Tractor/trucks

#### **Mining Method**

Open cast semi mechanized. No deep hole will be proposed. Only occasional drilling and blasting may be carried out of 32mm dia hole up to 1.5m depth.

#### Blasting

Broad blasting parameter

- Spacing 1m
- ➢ Burden 0.8m
- $\blacktriangleright \text{ Depth of hole } 0.5 \text{m}$
- Charge per hole 350gms
- Powder factor 9.6 t./kg
- Dia of hole 32mm

Single row blasting of maximum 10 hole of total charge of 3.5 kg, blasting is proposed for heaving purpose.

#### Land Use Pattern of Mining Lease Area

S.No.	Item	Barren land	Total
1.	Applied area	16.87	16.87
2.	Pit	0.05	0.05
3.	Dumps	-	-
4.	Road	0.20	0.20
5.	Hutments / infrastructure	0.50	0.50
6.	Undisturbed	16.12	16.12

#### Water Balance of Mining Project

Process	Total (Per Day)	
a) Mine site		
Dust Suppression	6.0 kld	
Green Belt	2.5 kld	
b) Domestic		
Drinking & Washing	1.5 kld	
Total (A+B)	10.0 kld	

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#### **Budget Allocation for Plantation**

A separate budget shall be made for plantation/ Green belt development Plan.

S. No.	Head	Qty	Rate (Rs.)	Amount (Rs.)
1 <sup>st</sup> Year	Saplings	500	50/-	25,000/-
	Soil/NPK		30/-	9,000/-
	(worker)	1 No.	@ 3500/- per month	42,000/-
			Total	76,000/-
$2^{nd}$ Year	Saplings	500	50/-	25,000/-
	Soil/NPK		30/-	9,000/-
	(worker)	1 No.	@ 3500/- per month	42,000/-
			Total	76,000/-
3 <sup>rd</sup> Year	Saplings	500	50/-	25,000/-
	Soil/NPK		30/-	9,000/-
	(worker)	1 No.	@ 3500/- per month	42,000/-
			Total	76,000/-
4 <sup>th</sup> Year	Saplings	500	50/-	25,000/-
	Soil/NPK		30/-	9,000/-
	(worker)	1 No.	@ 3500/- per month	42,000/-
			Total	76,000/-
5 <sup>th</sup> Year	Saplings	500	50/-	25,000/-
	Soil/NPK		30/-	9,000/-
	(worker)	1 No.	@ 3500/- per month	42,000/-
			Total	76,000/-
			Grant Total	3,80,000/-

#### **Budget for Environmental Protection**

S. No.	Particular	Capital cost (Rs.)	Recurring cost (Rs)
1.	Dust suppression	1,20,000/-	40,000.00
2	Environmental monitoring		30,000.00
4	Green belt development	76,000.00	76,000.00
5	Dump rehabilitation		18,000.00
6	Back filling		20,000.00
	Total	1,96,000.00	1,84,000.00

**Budget for CSR** 

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S. No.	Particulars	Frequency	Annual Budget
1	Health Check up Camps in nearby areas	twice in year	20,000/-
2.	Village Road Construction as per demand from Panchayat	Yearly	40,000/-
3.	Repairing of School Building in Bijaiyan Village	Yearly	20,000/-
4.	Arrangement for Drinking water facility in Bijaiyan	Yearly	25,000/-
5.	Environmental Day celebration	Yearly	10,000/-
7.	Campaign against plastic bags in Jabalpur City	Yearly	10,000/-
	Total		1,25,000/-

After deliberations committee has asked the PP to submit the following information along with the supporting documents:

- Plan for storage and transportation of Quartz.
- Revenue map showing the position of Reservoir.

13. Case No. - 1443/2013 – Shri Abhilash Kashyap M/s Integrated Alloys Ltd., Near Little Kingdom School, New Ram Nagar, Adhartal- Jabalpur (M.P.) - 482004 M/s Integrated Alloys Ltd., Stone Boulder Mine Lease Area ó 2.79 Ha. At Khasra No. ó 92, 94/1, 94/2, 94/3, 97 Vill. ó Banjar Budhari, Tehsil ó Sihora, Distt. ó Jabalpur (M.P.) Capacity ó 30,000 Cubic Meter Per Year, Lease Period - 02 Year.

This is a case of stone mine with lease area of 1.89 Ha. The ws forwarded by SEIAA to SEAC for appraisal as per the guidelines decided by SEIAA. The case was presented by the PP and his consultant, which reveals following:

Site	Village Banjar Budhari	
Tehsil	Sihora	
Dist.	Jabalpur	
Area	2.79 ha	
Latitude & Longitude	<sup>0</sup> 23 24ø40ö N & 80 14ø38ö E	
Land Status	Pvt. Land	
Khasra No.	92, 94/1, 94/2, 94/3, 97	

# Location Details

#### **Environmental setting of project**

Particulars	Details	
-------------	---------	--

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Nearest City	Jabalpur - 62 km from Mine
Nearest Railway Station	Sihora road ó 21 km from lease area.
Nearest Airport	Jabalpur - 62 km from the mines by road
Nearest Highway	-
Nearest Village	BanjarBudhari village - at 1.5 km
Topography	Hilly
Wildlife Sanctuary, National park, Biodiversity area	Non within 10 km radius. ( As per Parishishat ó 1) certified by DFO, Jabalpur

#### **Minerals & Capacity -** Proposed :- Stone ó 30,000 cum/year **Mining Method**

- $\succ$  The Method of manual/semi mechanize.
- The proposed mining will be carried out by open cast semi mechanized method using JCB machine for removing OB.

#### Water requirement

S. No.	Head	Quantity
1.	1. Dust suppression	
2.	Green belt	0.5 kld
3.	3. Domestic	
	Total	3.0 kld

#### **CSR** Activity:

Distribution of Stationary to primary School ó 5000/- Per Year in Banjarbudhari.

Medical checkup camp once in year at mine site ó 3000/-

50 Nos. of pressure cooker shall be distributed in village BanajrBudhari after one year of start of mining.

#### Post Land use of Mine Pit

After full exploration of stone the pit shall be partially backfilled by OB and remaining used as water reservoir, which will be used by animals for general purpose and use full for ground water recharging. Budget for Closer:

# **Budget for Closer:**

Our budget for closer of mine shall be 30,000/- .

#### **Budget for Environmental Protection**

SN	Particular	Capital cost (Rs.) Per Year
1.	Dust suppression	8000.0

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2.	Environmental monitoring	5000.0
3.	Green belt development	5,000.0
4.	Medical aids as per norms	2000.0
5.	Others	3000.00
	Total	23,000.0

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has <u>decided to **recommend** the case for grant of prior EC subject to the following special conditions:</u>

- 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.
- ➤ The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- > Transportation of material shall be done in covered vehicles.
- > Curtaining of site shall be done using appropriate media.
- Production of stone shall be restricted up to17500 m3 / Year and the average maximum depth of pits shall be more than 7.0 meters at the end of 10 years.
- > Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- > The validity of the prior EC & the lease shall be for a maximum period of ten years only.
- > Transportation shall not be carried out through forest area.
- > PP shall take CSR activities in the region through the -Gram Panchayatø
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.

# 14. Case No. - 1427/2013 M/s Shri Ram Traders, Prop. Shri Leelaram Gupta, Doli Road, Barhi, Distt. – Katni (M.P.) – 483770 Stone Mine Lease Area – 1.89 Ha. at Khasra No. – 1048/1, 1048/3, Village – Bichpura, Tehsil – Barahi, Distt. – Katni (M.P.) Capacity – 70,000 Cubic Meter/Year, Lease Period – 10 Year.

This is a case of stone mine with lease area of 1.89 Ha. The ws forwarded by SEIAA to SEAC for appraisal as per the guidelines decided by SEIAA. The case was presented by the PP and his consultant, which reveals following:

Introduction

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É	Site	:	Village Bichpura
É	Tehsil	:	Barhi
É	District	:	Katni
É	Area	:	1.89 Hectare
É	Khasra No.	:	1048/1, 1048/3
É	Location	:	Toposheet No. 64 A/10
É	Land Status	:	(Private land.)

Location of the mine

Toposheet No.	64 A/10
Geological location	<sup>0</sup> 23 52ø15ö N , 80 51ø5ö E
Nearest Town	Barhi ó 7 km
Nearest City	Katni ó 60 km
Nearest Village	Bichpura 2.8 km
Habitation in Core Zone	None
Nearest Railway Station	KhannaBanjari - 8 km
National Park/ Heritage site	None in 10 km radius
Ecological Sensitive Zone	None in 10 km radius
Nearest Forest	More than 250m ( as per Forest NOC)

#### Mining method

Mining Method	Mining will be carried out by opencast method by using hand tools such as spades, hammer, Crowbar, Chisel and jack hammer. Occasionally, drilling & blasting will also be carried out, as required.	
Blasting operation	Rarely to remove hard strata. Single row blasting.	

# Minerals & capacity

Minerals to be Mined	: Stone Mine	
Proposed Capacity	: 70,000 cum/year	
Water balance	-	
Process		Total

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a) Mine site		
Dust Suppression	1.0.0Kl	
Green Belt	1.0 KL	
b) Domestic		
Drinking & Washing 0.5 KL		
Total (A+B)	2.5 KL	

#### Mining Method / Machines to be used

- > The Method of manual.
- > The proposed mining will be carried out by open cast manual method using
- JCB machine for removing OB
- > Blasting shall be carried out for losing the stone below 6 ft from surface

#### **Budget for Environmental Management**

Particular	Capital cost (Rs.)
Dust suppression	2000.0
Environmental monitoring	2000.0
Green belt development	5,000.0
Medical aids as per norms	2000.0
Others	5000.00
Total	16,000.0

#### CSR Activity:

- > Distribution of Stationary to primary Schooló5000/- Per Year in Karaudikala.
- Medical checkup camp once in year at mine site ó 3000/-
- > 30 Nos. of pressure cooker shall be distributed in village Bichpura after one year of start of mining.

#### Post Land use of Mine Pit

After full exploration of stone the pit shall be partially backfilled by OB and remaining used as water reservoir, which will be used by animals for general purpose and use full for ground water recharging.

Budget for Closer: budget for closer of mine shall be 25,000/-

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and

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acceptable hence committee has <u>decided to **recommend** the case for grant of prior EC subject to the following special conditions:</u>

- > 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.
- > The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- > Transportation of material shall be done in covered vehicles.
- > Curtaining of site shall be done using appropriate media.
- Production of stone shall be restricted up to 12000 m3 / Year and the average maximum depth of pits shall be more than 7.0 meters at the end of 10 years.
- > Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- > The validity of the prior EC & the lease shall be for a maximum period of ten years only.
- > Transportation shall not be carried out through forest area.
- > PP shall take CSR activities in the region through the -Gram Panchayatø
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.
- 15. Case No. 1488/2013 Shri Leelaram Gupta, M/s Shri Ram Traders (Prop.) Doli Road, Barhi, Distt. – Katni (M.P.) – 483770 Shri Ram Traders Stone Mine Lease Area – 3.80 Ha.. at Khasra No. – 209/1, Village – Karaudikala, Tehsil – Barahi, Distt. – Katni (M.P.) Capacity – 90,000 Cubic Meter/Year, Lease Period – 10 Year.

This is a case of stone mine with lease area of 3.80 Ha. The ws forwarded by SEIAA to SEAC for appraisal as per the guidelines decided by SEIAA. The case was presented by the PP and his consultant, which reveals following:

#### Location of the mine

Toposheet No.	64 A/10
Geological location	<sup>0</sup> 23 50ø53ö N , 80 47ø43ö E
Nearest Town	Barhi ó 10 km
Nearest City	Katni ó 60 km
Nearest Village	Karaudikala- 3.0 km

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Habitation in Core Zone	None
Nearest Railway Station	KhannaBanjari - 6 km
National Park/ Heritage site	None in 10 km radius
Ecological Sensitive Zone	None in 10 km radius
Nearest Forest	More than 250m ( as per Forest NOC)

#### Mining method

Mining Method	Mining will be carried out by opencast method by using hand tools such as spades, hammer, Crowbar, Chisel and jack hammer. Occasionally, drilling & blasting will also be carried out, as required.
Blasting operation	Rarely to remove hard strata. Single row blasting.

#### **Minerals & capacity**

• Minerals to be Mined : Stone Mine

Proposed Capacity	: 90,000 cum/year
Lease area	3.80 ha
Mineral	Stone
Khasra No.	209/1
Pachayat / Tehsil	Karaudikala
Dist.	Katni

#### Mining Method / Machines to be used

- $\succ$  The Method of manual.
- The proposed mining will be carried out by open cast manual method using JCB machine for removing OB.
- Blasting shall be carried out for losing the stone below 6 ft from surface. CSR Activity:
- Distribution of Stationary to primary Schooló5000/- Per Year in Karaudikala.
- Campaign against use of plastic bags ó 2000/- year
- Medical checkup camp once in year at mine site ó 3000/-
- 50 Nos. of pressure cooker shall be distributed in village Karaudikala after one year of start of mining.

#### Post Land use of Mine Pit

After full exploration of stone the pit shall be partially backfilled by OB and remaining used as water reservoir, which will be used by animals for general purpose and use full for ground water recharging.

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**Budget for Closer:** budget for closer of mine shall be 25,000/- . **Budget for Environmental Protection** 

Particular	Capital cost (Rs.) Per Year
Dust suppression	8000.0
Environmental monitoring	5000.0
Green belt development	5,000.0
Medical aids as per norms	2000.0
Others	3000.00
Total	23,000.0

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has <u>decided to **recommend** the case for grant of prior EC subject to the following special conditions:</u>

- 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.
- > The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- > Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of stone shall be restricted up to 20000 m3 / Year and the average maximum depth of pits shall be more than 7.0 meters at the end of 10 years.
- > Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- > The validity of the prior EC & the lease shall be for a maximum period of ten years only.
- > Transportation shall not be carried out through forest area.
- > PP shall take CSR activities in the region through the -Gram Panchayatø
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.
- 16. Case No. 1173/2013 Shri Sanjay Pratap Singh, Ward No. 11, Shahdol, Distt. Shahdol (M.P.) Sanjeev Pratap Singh Sand Mine at Khasra No.- 731, Vill- Mau, Teh – Beohari, Distt. - Shahdol (M.P.) Lease Area – 3.14 Ha..( 8.0 Acre), Proposed Capacity – 30,000 Cubic Meter Per Year, Lease Period-02 Year.

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This is a case of mining of stone / boulder. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site is located at *Khasra No.- 731, Vill- Mau, Teh – Beohari, Distt. - Shahdol (M.P.)* in 3.14 Ha. The project requires prior EC before commencement of any activity at site. It was submitted by the PP that after the Project is completed the proposed land will be converted into pond which will be used for irrigation purpose. It is also reported by the PP that no mining is either operation or proposed within 250 meters from the boundary of the proposed mining site.

PP has submitted copies of requisite information in the prescribed formats duly verified from DFO and the Tehsildar. The submissions made by the PP and the EMS submitted are found to be satisfactory and acceptable hence committee has <u>decided to **recommend** the case for grant of prior</u> EC subject to the following special conditions:

- 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.
- The final EMS as proposed by the PP and the budgetary provisions for its implementation shall be approved by the Collector and shall be submitted to SEIAA.
- PP shall be responsible for any discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
- > Transportation of material shall be done in covered vehicles.
- Curtaining of site shall be done using appropriate media.
- Production of stone shall be 10000 m3 / Year.
- > Appropriate arrangement shall be made for storage of materials at site in terms of covered yard.
- Air Pollution Control measures for the crusher shall be installed as per the requirement of MPPCB.
- The proposed plantation should be carried out along with the mining and PP should take care that these plants attain full growth.
- > The validity of the prior EC & the lease shall be for a maximum period of ten years only.
- > Transportation shall not be carried out through forest area.
- > PP shall take CSR activities in the region through the -Gram Panchayatø
- The amount towards land reclamation shall be deposited with the Collector for further execution of the activities under EMP.
- 17. Case No. 1710/2013 M/s Abdul Razzak, 903, BadiOmti Jabalpur, Distt. Jabalpur (M.P.) 482001- Nimas Marble Mines Lease Area 2.67 ha. Capacity 8000 m3 at PatwariHalka No. 41/82, Khasra No. 435 & 436, Village Nimas, Tehsil Bahoriband, Distt. Katni (M.P.)-TOR

This is a mining Project. The application was forwarded by SEIAA to SEAC for scoping. It was informed by the PP that he intend to change the production capacity in the application form.

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Committee has asked the PP to submit the revised application to SEIAA with desired changes. The case was deferred till receipt of revised application from SEIAA.

18. Case No. - 1711/2013 Moh. Abbas, M/s Jabalpur Marbles, 903, – BadiOmti – Jabalpur, Distt. – Jabalpur (M.P.) – 482001 Ghutehi Marble Mines Lease Area – 4.57 ha. Capacity – 10,000 m3 atKhasra No. – 215,217, 218, 219 & 220 Village – Ghutehi, Tehsil – Sihora, Distt. -Katni (M.P.) ToR

This is a mining Project. The application was forwarded by SEIAA to SEAC for scoping. It was informed by the PP that he intend to change the production capacity in the application form. Committee has asked the PP to submit the revised application to SEIAA with desired changes. The case was deferred till receipt of revised application from SEIAA.

19. Case No. - 671/2012 - Shri Shankarlal Vishwakarma S/o Shri Puranlal Vishwakarma, Jalpadevi Ward, Gautam Mohalla – Katni, Distt. – Katni (M.P.). Enhancement in mining capacity of Tikariya Bauxite, Laterite and Fire Clay Mine of 27. 02 ha. at Khasra no. 423, 424, 425/1, 425/2, 426, 454/1, 454/2, 457, 458, 459, 422, 455, 460, 467, 468, 469, 498, 500, 509 Village – Tikariya, Tehsil ó Murwara, Distt. ó Katni (M.P.) Capacity ó 1.25 lac MTPA to 7. 0 lakhs MTPA. Prior EC issued vide letter no. 122/EPCO SEIAA/ 10 dated 26/05/10. EIA Presentation

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.

20. Case No. - 689/2012 Shri M.G. Chobey, Engineer- in Chief Department of Water Resources, Tulsi Nagar, Bhopal (M.P.) – 462003. Semri Medium Project Catchment Area- 92.75 Sq.km., Gross Storage Capacity - 33.13 MCM, Live Storage Capacity ó 29.85 MCM, Gross Command Area ó 6350 ha., Cultivable Command Area 5700 ha.., at Village ó Markheda Tappa, Tehsil ó Begamganj Distt. ó Raisen (M.P.) <u>EIA Presentation.</u> ToR issued vide letter no. 290 dt. 20/06/12. Env. Consultant- WAPCOS limited, New Delhi

This is a River Valley Project with CCA of 5700 Ha. The project requires prior EC under the provisions of EIA Notification. The application along with the documents was forwarded by SEIAA to SEAC for necessary action in the matter. After scoping TOR was issued for the project vide letter no. 290 dated 20/06/2012. EIA submitted by the PP was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was presented by the PP and his consultant before the committee, which reveals following:

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#### **Project Components**

Location			
Tehsil and District		-	Raisen
River		-	Semri River
Dam			
Туре	-	Earthen	dam
Total length of earthen portion	-	1775 m	
Height above ground level	-	18.7 m	
Top width of earthen dam	-	6.0 m	
Reservoir data			
Gross storage capacity	-	33.13 M	lcum
Live storage capacity	-	29.85 M	lcum
<u>Irrigation</u>			
Gross Command Area	-	6350 ha	
Culturable Command Area	-	5700 ha	
Proposed irrigation	-	5700 ha	

SN	Project Name	Revenue Land (ha)	Private Land (ha)	Forest Land (ha)	Total (ha)
1.	Dam & Reservoir & Spill channel	22.85	630.60	92.55	746.00
2.	Canal Network	1.963	195.312	-	197.275
	Total	24.813	825.912	92.55	943.275

#### Land use pattern: command area

	Type of land	Area (ha)	Percentage of command area
Dense	Vegetation	209	3.29
Open	Vegetation	1673	26.34
Barrer	n area	506	7.97
Agricu	ıltural Land	3935	61.96
River/	Water body	3	0.04
Builtu	p area/Settlements	25	0.40
Total		6350	100
Tree density observed in the study area			
	Sampling Location		Nos./ ha

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Dam site	68
Submergence area	52
Catchment Site-I	96
Catchment Site-II	76
Command area -I	116
Command area -II	84

#### Land Acquisition for Various project appurtenances

Project Name	Revenue Land (ha)	Private Land (ha)	Forest Land (ha)	Total (ha)
Dam & Reservoir & Spill channel	22.85	630.60	92.55	746.00
Canal Network	1.963	195.312	-	197.275
Total	24.813	825.912	92.55	943.275

#### Impact on water quality- construction phase:

Immigration of labour and technical staff:

- Domestic water requirements: 0.68 mld
  - Sewage generation : 0.54 mld
- É Sewage generated from various labour camps will be treated prior to disposal

#### Impacts on water resources and quality- operation phase

- <sup>\*</sup> Impacts on downstream water users
- " Impacts on water logging and soil salinity
- <sup>"</sup> Impacts due to effluents from project colony
- " Impacts on downstream water quality

# Impacts on terrestrial ecology

#### **Construction Phase:**

É

- <sup>"</sup> Increased human interference
- <sup>"</sup> Tree felling and clearing by labour population for using fuel wood and timber requirement.

#### **Operation Phase:**

- <sup>"</sup> Acquisition of 92.55 ha of forest land
- " Tree density in submergence area 652 trees/ha
- " Tree density near dam site ó 68 trees/ha
- " Increased fodder availability would reduce the pressure on existing pasture and vegetal cover
- " Overall improvement in vegetal cover due to increase in soil moisture.

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#### **Biodiversity conservation and management plan**

- $\checkmark$  Total forest area to be acquired is 92.55 ha and the total land proposed to be afforested is 537 ha
- ✓ There is no wildlife sanctuary, national park, etc. within the study area.
- ✓ No rare, endangered and threatened species are reported in the project area.
- ✓ Measures proposed for conservation and improvement of biodiversity:
- Forest Protection Plan
- > Public awareness for the protection of wild life and prevention of forest fires
- Improvement of Wildlife habitats
- Patrolling and surveillance for anti-poaching

#### Fisheries management plan

- Release of environmental flows
  - ✓ River is practically dry from October to June, i.e. non-monsoon-non lean season and lean season.
  - ✓ It is recommended to release 30% of discharge in monsoon season as Environmental Flow
- Sustenance & enhancement of fisheries potential through supplementary stocking of reservoir
- Stocking density @ 300 fingerlings/ha
- Fish production potential will be 50 kg/ha/yr in the reservoir.
- ➢ Fish seed requirement shall be 12 lakh
- Nursery Pond : 2.0 ha
- ➢ Rearing Pond : 4 ha

#### **Control of air pollution**

- É Construction equipment and vehicles will be turned off when not used for extended periods of time.
- É Contractor shall ensure that there is effective traffic management at site. The number of trucks/vehicles to move at various construction sites should be fixed
- É Road damage caused by sub-project activities will be promptly attended to with proper road repair and maintenance work.
- É Excessive soil on paved areas will be sprayed (wet) and/or swept and unpaved areas will be sprayed and/or mulched.
- É Contractors will be required to cover stockpiled soils and trucks hauling soil, sand, and other loose materials (or require trucks to maintain at least two feet of freeboard).

#### **Resettlement and Rehabilitation Plan**

#### Details of project affected families

- Total number of families losing lands is :1727
- " families losing land under reservoir submergence : 394
- <sup>"</sup> families losing land due to other project appurtenances :1333
- " No family is losing homestead

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#### Measures for rehabilitation

- <sup>"</sup> Compensation for land as decided by the District Administrative Each PAF shall be entitled to a rehabilitation grant equivalent to 750 days minimum agricultural wages
- <sup>"</sup> A provision of Rs. 10,000 per PAF is being kept for a one-time financial assistance to each khatedar in the affected family for loss of agricultural production
- " A provision of Rs. 500/month for 6 months for one person per PAF shall be given for training
- " One person from each affected family shall be offered necessary training facilities for development of entrepreneurship, technical and professional skills for self-employment
- Scholarship @ Rs. 500 per month to atleast 1 child per PAF for a period of 1 year. Preference to willing landless labourers and unemployed affected persons while engaging labour in the project during construction phase.

#### Budget for R&R Plan

SN	Components of R&R	Cost (Rs. millions)
А	Rehabilitation Plan	
1.	Land required under õland for landö option = 1727 ha irrigated land in the command area	
2.	Land development cost in case wasteland or degraded land is allotted	25.91
3.	Financial assistance for agricultural production	17.27
4.	Training to take on suitable jobs	5.18
5.	Scholarships	10.36
6.	Other Skill Development	5.18
7.	Training facilities for development of entrepreneurship, technical and professional skills for self-employment	10.36
8.	Rehabilitation Grant - in case õland for landö or õjobs in projectö are not given	194.29
	Sub-Total [A]	268.55
В	Project Monitoring & Evaluation [B]	3.0
	Total [A+B]	271.55

#### Local area development plan

A budget of 0.5% of the project cost has been earmarked for implementation of Local Area Development Plan (LADP).

#### Up-gradation of infrastructure in 5 primary schools in the study area.

- <sup>"</sup> Up-gradation of school infrastructure, equipment
- " Improvement of drinking water and sanitation facilities

Up-gradation of 1 existing PHC in the study Area

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- " Furniture, Beds and other items
- <sup>"</sup> Up-gradation of Pathological laboratory
- " Up-gradation of operation theater

#### List of schools to be upgraded as a part of Local Area Development Plan

S N	Village	Tehsil	District
1	Sultanpur	Gairatganj	Raisen
2	Gorkha	Gairatganj	Raisen
3	Fatehpur	Begamganj	Raisen
4	Kirangi	Begamganj	Raisen
5	Dholpur	Silwan	Raisen

#### List of Primary Health Sub-Center to be upgraded as a part of Local Area Development Plan

S. No.	Village	Tehsil	District
1	Sayeedpur	Gairatganj	Raisen

# Details of the cost required for up-gradation of existing primary schools

Particular	Amount (Rs.	Amount (Rs. million for
	million per school)	5 schools)
Furniture & fixtures and equipments	0.2	1.00
Improvement of drinking water & sanitation	0.2	1.0
facilities		
Total		2.0

#### **Budget for up-gradation of PHCs**

Item	Cost (Rs. million per PHSC)		
Furniture, Beds and other items	1.5		
Up-gradation of Pathological laboratory	1.5		
Up-gradation of operation theater (labor room)	2.5		
Total	5.5		

#### Implementation of local area development plan

Items	Budget (Rs. millions)
Construction/ Up-gradation schools in Study Area	2.0
Improvement of Public Health Facility	5.5
Total	7.5

#### **Catchment Area Treatment Plan**

É Catchment area Treatment Plan has been prepared using SYI method.

É Delineation of subwatersheds in the catchment area.

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- É Land-use pattern using satellite data, slope map using Survey of India toposheets, etc. has been prepared.
- É Mapping of critically degraded areas based on Integration of Remote Sensing technique, GIS methodology and Silt Yield Index method.
- É Prepared Catchment Area Treatment (CAT) Plan for sub- watersheds with high erosion intensity.

# Area under different erosion categories

Category	Area (ha)	Percentage	
Very low	-	-	
Low	-	-	
Medium	5272	56.84	
High	4004	43.16	
Very High	-	-	
Total	9276	100.00	

#### Cost for implementing Environmental Management Plan

S. No.	Item	Cost (Rs. millions)
1.	Compensatory Afforestation and Bio-diversity conservation	174.85
2.	Fisheries Management	49.40
3.	Environmental Management in labour camp	50.05
4.	Public health delivery system	32.10
5.	Restoration and Landscaping of construction sites	19.10
6.	Water Pollution Control Measures	1.50
7.	Air Pollution Control Measures	4.70
8.	Energy Conservation measures	5.00
9.	Public Awareness Programmes	5.00
10.	Disaster Management Plan	15.00
11.	Resettlement and Rehabilitation Plan	271.55
12.	Local Area Development Plan	7.50
13.	Catchment Area Treatment Plan	36.04
14.	Environmental Monitoring during construction phase	7.52
	(Refer Table-15.2)	
15.	Purchase of noise meter	0.15
16.	Purchase of meteorological instruments	0.70
	Total	681.16

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**Public Hearing Issues** – Public Hearing proceedings in the matter were discussed in length and summarized below:

S. No.	Suggestion/Complaint	Response of WRD
1	Participants suggested that the land acquisition payment should be given on the basis of irrigated land compensation.	Land acquisition payment has been decided by the Revenue Department on the basis of guidelines given by the collectorate
2	One of the participants said that my land is coming under submergence but neither any notice nor any compensation has been given to the applicant.	Case shall be examined before construction of dam, notice will be served and full land acquisition will be done by the Revenue Department
3	One of the participants said that he received compensation of un-irrigated land in place of his irrigated land and real rate has not been given.	Case shall be examined and after that decision shall be taken as per the rule.
4	One of the participants said that 0.815 Ha. Land of Khasra No. 397/1 is coming under submergence but he has not been given any compensation.	Case shall be examined and after that decision shall be taken as per the rule.
5	One of the participants said that some of the villagers have got the cheque /money as compensation for their land but she has not been given any amount.	Case is to be examined and after that decision shall be take n as per the rule.
6	One participant raised an issue that his land under survey no. 397/1/7 is coming under submergence but the applicant has not been given any prior notice or compensation.	Case shall be examined and after that decision shall be taken as per the rule. Compensation will be given as per the norms of National Rehabilitation and Resettlement Policy 2007 (NRRP 2007) and Madhya Pradesh Act ó Madhya Pradesh Pariyojana Ke Karan Visthapit Vyakti (Punhsthapan) Adhiniyam, 1985 (MPPKKVVAó1985)
7	One of the participant said that he has been given less compensation while his more land is coming under submergence.	Request shall be made to Revenue Department for examination of land and necessary action will be taken.
8	Road from village Saoli to Markhera Tappa is coming under submergence. So Diverted road from Saoli to Markhera Tappa via Kalidadhar Ghat with bridge is to be constructed.	Temporary road will be constructed soon and will be converted in permanent road during project construction phase

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9	One of the participant said that he has been given less compensation for his land and he has not been given any compensation of Rs. 2.50 lakh incurred by him for Electric Transformer for irrigation. He demanded for more compensation.	Land acquisition award has been done by Revenue Department as per the guidelines of the Collectorate. While request will be made for re- examination by the Revenue Department and Electric Department
19	One of the participant said that his 6.661 ha land is coming under submergence which is irrigated by tubewell, but the compensation has been given for unirrigated land.	Revenue Department will be requested for re-examination. Compensation shall be decided only after taking necessary action
11	One of the participant said that his 1.974 ha land is being affecetd, while compensation has been paid only for .0170 ha. Hence, compensation for balance land should be also be given	Land acquisition award has been done by Revenue Department as per the guidelines of the Collectorate. While request will be made for re- examination by the Revenue Department and Electric Department
12	Participants from village Saoli, Markhera Tapp, Simariya, Bichhua etc. requested for special package for their fertile agricultural land should be given, as implemented for Ghoghra irrigation project in Sehore district.	Land acquisition award has been done by Revenue Department as per the guidelines of the Collectorate. While request will be done for re- examination by the Revenue Department and Electric Department
13	Some participants said that they are not satisfied from the compensation they have received from the government. So kindly right compensation shall be given to them	Land acquisition award has been done by Revenue Department as per the guidelines of the Collectorate. While request will be done for re- examination by the Revenue Department and Electric Department
15	One of the participant said that he has not been given any compensation for his stone masonary construction. Right compensation should be given to him.	Land acquisition award has been done by Revenue Department as per the guidelines of the Collectorate. While request will be done for re- examination by the Revenue Department and Electric Department
16	One participant from village Saoli said that his 4.52 land is coming under submergence of Semri Project, but applicantøs name is not listed on compensation list neither received compensation amount. So please examine the case and give compensation of land on the basis of irrigate land.	After examination of case necessary action will be taken

In general the Public Hearing was in favour of the project without relevant objection. The PPøs responses to various issues were also found to be acceptable. The EIA, EMP and various submissions made by the PP were found to be satisfactory and acceptable hence <u>committee decided to **recommend** the case for grant of prior EC subject to the following special conditions:</u>

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- 1. Quality of all types of waters to be periodically monitored to optimize various parameters in future.
- 2. Regular Fluorideø monitoring to be done in the reservoir.
- 3. Salinity of the command area has to be periodically monitored so as to regulate the quality of dam water with respect to the TDS.
- 21. Case No. 1131/2013 Shri Ashish Khampariya, Pratap Ward, KhasMohalla, Panagarh, Jabalpur, Distt. Jabalpur (M.P.) Laterite, Ochre & Clay Mine, Lease Area 9.0 Ha., at Khasra No. 6 48/1, Village 6 Khitola, Tehsil 6 Manjholi, Distt. 6 Jabalpur (M.P.) Lease Period 6 30 Year., Capacity 1,02,000 TPA. <u>EIA Presentation.</u> TOR issued vide letter no. 466 dated 25/04/2013.

This is a mining project submitted for grant of prior EC. The EIA submitted by the PP was forwarded by SEIAA to SEAC for appraisal and recommendations. The case was presented by the PP and his consultant before the committee, which reveals following:

- This is a proposal of grant of mining lease of mineral Laterite, Red & Yellow Ochre and Clay (ML No: 1/10& ML Area: 9.0 ha) with production capacity of 1,02,000 TPA at Village: Khitola, Tehsil: Majholi, District: Jabalpur (MP).
- The mined out metal grade laterite is suitable for the cement industry. Red Ochre, Yellow Ochre/Clay can be used in colour/paint industry.
- The Mineral Resource Department, M.P has issued Letter of Intention to grant mining lease for minerals Laterite, Red & Yellow Ochre and Clay over an area of 9.0 ha in favour of Mr. Ashish Kumar Khampariya vide letter No F 3-30/2012/12/2 dated 29.11.2012 subject to the condition to submit EC under EIA Notification, 2006 and duly approved mining plan.
- Mining plan has been approved by Controller of Mines, IBM (Central zone, Jabalpur) vide letter No: MP/JABALPUR/Laterite/MPLN/G-06/2012-13/184, Nagpur.

SN	Particulars	Details
1.	Mineable Reserves	744314 tonnes
2.	Life of Mine	7 years @ 1,02,000 TPA
3.	Total waste generation at conceptual stage	1,96,421 m <sup>3</sup>
4.	Total excavated area at the conceptual stage	6.35 ha

#### **Reserves & waste generation**

Post-mining (conceptual) land use pattern of ml area (hectare)

S. No.		Land Use (In Ha.)				
	Description	Plantation	Water Body	Public Use	Undisturbed	Total
1	Top Soil Dump	-	-	-	-	-

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	2	External Waste Dump	-	-	-	-	-
	2	(a) Excavation (Voids)	1.33	-	6.35*	-	7.68
Details of mineral	3	(b)Excavation (backfilled)	-	-	-	-	-
transport	4	Road	-	-	-	-	-
its impact have to	5	Built Up Area	-	-	-	-	-
	6	Township Area	-	-	-	-	-
be	7	Afforestation	1.32	-	-	-	1.32
evaluated and presented	8	Mineral Storage	-	-	-	-	-
	9	Undisturbed Area	-	-	-	-	-
		Total	2.65	-	6.35	-	9.0

Transportation of material from mine site to destination of user industry will be done by tar road connecting to mine road at 200m distance which doesnøt fall in forest region.

- Mineral (ROM) handling in the mine per day is 340 TPD, Transportation of waste material and mineral is proposed by trucks/Dumpers of 10T capacity. Considering the maximum quantity of waste and mineral 3 trucks/dumpers are proposed.
- The existing road is available for this purpose. So, there will be no significant impact on public transportation anticipated due to this mining project.
- Proper mitigation measures will be adopted during transportation of mineral.
- Water spraying arrangement on haul roads, trucks (loading & unloading) will be provided to control the fugitive dust emission.

# Details with justification for adopting the proposed mining technology and mining equipment deployment including mine geometry also to be provided.

- Mining will be done by opencast semi-mechanized method as blasting to be carried out in hard quartzite body running along the length of the mound so that systematic benches can be formed & to get the required production semi- mechanized method is adopted using excavator cum loader.
- The proposed production cannot be achieved manually. Mining will be carried out by developing systematic, regular and separate benches mineral to achieve desired production.
- Machinery used for mining will be Excavator / Loader, Dumpers, Truck, Compressor tractor Mounted & Jack Hammer
- The height of benches will be kept not more than 6 m at a time and width of the bench will be more than the height.
- The haul roads will be graded properly and gradient & width will be kept & maintained as per DGMS permission.

#### Details of waste generation and its management.

Particular	Details

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Waste generation	Total waste: 196421 m3
Waste management	Total waste generated during entire life of mine will be used for carpeting side of the Govt. RRD road as the waste material is murrum like. Apart from that lessee has acquired land measuring 1.32 ha. adjacent to lease boundary for temporary dumping of OB for which license permission from concerned authority is in advance stage.
Leachate study	There will be no toxic material in Laterite Ochre & clay Mine, so leachate study is not required.

Water shed management Plan to be submitted in view of the damages caused in the catchment area river/nalla falling in study area of mining region and to support ground water recharge.

- > There are four Rivers present in study area.
- Suhar River is at an aerial distance of ~1.8 km in WNW direction. KairNadi (~5.0 km in NW direction), KanariNadi (~7.5 km in SE direction), & Loraphalku Nadi (~8.0 km in WSW direction).
- There are no first order streams passing through the lease area. So, surface drainage is not affected by mining.
- Plantation will be done on periphery of the lease area to prevent the soil erosion.
- For water conservation two anicuts will be proposed in nearby streams which will meet Suhar River so that surface water will not discharge into the river.
- ➢ Water shed management plan is given in next slide.

# Detailed plantation scheme

V	Un-worke	d Area	Waste (Outside)	Dump	Inside (Recla Area)	Dump imed	Top Dumj	Soil ps	Total		Dudaat
rear	Area (Ha.)	No. of Trees	Area (Ha.)	No. of Trees	Area (Ha.)	No. of Trees	Area (Ha. )	No. of Trees	Area (Ha.)	No. of Trees	Buuget
Existing	Nil	-	-	-	-	-	-	-	Nil	-	
Ι	0.046	70	-	-	-	-	-	-	0.046	70	5000
Π	0.046	70	-	-	-	-	-	-	0.046	70	5000
III	0.046	70	-	-	-	-	-	-	0.046	70	5000
IV	0.046	70	-	-	-	-	-	-	0.046	70	5000
V	0.046	70	-	-	-	-	-	-	0.046	70	5000
5th year Onwards	1.1	1650	1.32	1980	-	-	-	-	2.42	3630	
Total	1.33	2000	1.32	1980		-	-	-	2.65	3980	25000

#### **Public hearing issues**

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# **MINUTES OF STATE EXPERT APPRAISAL COMMITTEE** 140th MEETING 30th August 2013

ShriThankurDurg Singh, Village KhitolaPadwar	Fencing should be done on road side and population side for protection.	Fencing will be done on road side and population side for protection when the mine will start.
ShriDhanesh Kumar Ben. Village KhitolaPadwar	Employment should be given to local people when the mine starts.	Preference will be given to local people in employment
Shri Ganesh PrashdKol. VilllageKhitiolaPadwar	Employment should be given and plantation should be done since the mine has been sanctioned on 9.0 Hectare are of Khitola Village.	Preference will be given to local people in employment. The plantation will be done as per mining plan.
ShriRanjitGotia. Village KhitolaPadwar	Employment should be given in mine.	Preference will be given to local people in employment.
ShriPapusingh. Village KhitolaPadwar	Plantation should be done in the nearby area of mine to protect air pollution.	The plantation will done as per mining plan.
Shri Ram Charan, village KhitolaPadwar	Employment should be given in the mine and the wages should be given as per Govt. rates.	Preference will be given to local people in employment. The wages will be given as per Govt. rates.
Smt. ChootiBaiVijyaLodhi. Sarpanch, Village Khitola	<ul> <li>Due to start of mine the villagers will get employment and the development of the village will be there. All villagers and Gram Panchyat do not have any objection.</li> <li>Following are the suggestion of the villagers.</li> <li>1. Employment should be given to villagers of Khitola.</li> <li>2. The village should be kept free from any pollution.</li> <li>3. Plantation should be done on road side and in the village area.</li> <li>4. The wages should be given weekly preferably on Thursday.</li> <li>5. Fencing should be done at the road sides.</li> <li>6. The wages should be given as per the Govt. rate to the labours.</li> </ul>	Preference will be given to local people in employment. All efforts will be made to control the pollution Plantation will be done on road side and in the village area. The wages will be given weekly preferably on Thursday. Fencing will be done at the road sides. The wages will be given as per the Govt. rate to the labours.

# **CSR Budget Allocation**

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Education Requirement of strengthening the infrastructure Promotion of Education programmes Promotion of Adult Education	PP will contribute and repairing work in Schools. By installing computers in secondary schools for the development of students. Adult programmes will be conducted.	75,000/-
Water Lack of Water supply during Summer & Winter Season	PP will contribute in digging and repairing wells and hand pumps. Organize awareness programmes on Conservation of water	75,000/-
<ul><li>Health care</li><li>Health Awareness</li><li>Health at door step</li><li>Infrastructure</li></ul>	Health awareness programme will be conducted to improve health and hygiene standards Mobile camp of Pulse polio drop, General Health Check up will be conducted.	75,000/-
Employment avenues	PP will generate direct and indirect Employment. Preference will be given to local people	75,000/-
Other development Plantation	PP will assist in Social Forestry programme.	75,000/-
Total		3,75,000/-

After deliberations committee found that the EIA, EMP and other submissions made by the PP are satisfactory and acceptable, hence the <u>case was recommended for grant of prior EC subject to the following special conditions:</u>

- 1. PP will contribute in digging and repairing wells and hand pumps as one of the CSR activities the work shall carried out in coordination with the Gram Sabha.
- 2. Other CSR activities shall be carried out through Gram Sabha and /or Local Administration.
- 3. Mining shall be carried out through opencast semi-mechanized method. Deploment heavy machinery shall not be allowed.
- 4. Only controlled blasting in presence of experts shall be done.
- 5. Appropriate check dams shall be constructed to avoid run-offs into the nearby water bosied.
- 22. Case No. 601/2010 M/s Smt. RenuRathore 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. – Jabalpur - (M.P.)

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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. PPsø representative requested for considering the case in next meeting. Hence Committee decided to call the proponent of the project in coming meetings as per turn.

23. Case No. - 1704/2013 M/s Saicharan Properties Ltd. Through Authorised Signatory Mr. SanjatDaga, 101, kalptaru Synergy, Opp. Grand Hyatt., Santacruz, East Mumbai (M.S.) 400 055 Building Construction.- Proposed "Residential & Commercial Development "Project of M/s Saicharan Properties Ltd. at Plot No. - 27, Yaswant Road, Tehsil &, Distt. - Indore (M.P.) Total Plot Area - 12,626.00 sq.mt., Total Built Up Area - 62,262.67 sq.mt. (28657.86 sq.mt. F.A.R. + 26565.60 sq.mt. Non F.A.R. + 7039.21 sq.mt.

This is a building construction project comprising total plot area of 12626.0 m2 and total built-up area of 62262.67 m2. The project requires prior EC before commencement of construction activity at site. The application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations. The case was presented by the PP and his consultant before the committee the submissions and presentation made before the committee reveals following:

Items	Details			
Project Name	õResidential & Commercial Developmentö Project			
Location	Plot No. 27, YashwantNiwas road, Indore Tehsil and District- Indore, Madhya Pradesh			
Plot area	12626 sq. m			
Land Losses in road Winding	110.83 sq. m			
Net Effective Plot Area	12515.17 sq. m			
Total Built up area	62,262.67 sq. m (28657.86 sq. m F. A.R + 26,565.60 sq. m Non F. A. R + 7039.21 sq. m. Basement Area) Construction Area ó 63762.67 sq. m			
Ground coverage	Permissible: 30% of Net Plot Area=3754.55 sq. m. Proposed: 26.37 % of Net Plot Area(3,300.17 sq. m)			
F.A.R.	Permissible:28657.86 sq. m. Proposed: 28657.86 sq. m.			
Maximum height	45.00 meters			
Number of Blocks	5 Wings (A- E)			
Number of floors	Basement + Ground + Podium + Stilt + 12 upper floors.			
Total number of Dwelling units	Total - 140 Flats (M. D.U - 120 Flats plus E.W.S & L.I.G - 20 Flats) & 14 No. of Shops			

#### **Project Details**

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#### **Project details**

Items	Details			
Parking facilities	Parking Required = 314 ECS Parking Proposed = 373 ECS			
Power requirement & source	1021.5 KW & it will be sourced from MPPKVVCL.			
DG Sets for Power backup	1 x 500 KVA DG Set is proposed as a backup in case of power failure.			
Water requirement & source	Total water requirement will be 165 KLD (Fresh water: 81 KLD plus Recycled water: 84 KLD) Source: Municipal water supply and Recycled treated water from STP.			
STP Capacity	150 KLD			
Estimated total population	1930 Persons (Residential: 700 persons plus Floating : 1230 persons)			
Connectivity	Project site is adjacent to YashwantNiwas road & Race Course roads and well connected to SH - 27, NH - 3.			
Green Area	Green area will be developed in an area of 3021.17 sq. m. (24.14 %) of the net planning area to provide beautiful and natural environment to the site. The softscape area will be 1684.59 (13.46%) of net plot area.			

#### Water demand calculation

SN	Particulars	Expected Populatio n	Base of Calculation (in LPCD)	Water for flushing purpose in (KLD)	Water required for Domestic Purpose (KLD)	Total Water Consumpti on (KLD)
1.	No. of Units 140 (@5 persons per units)	700	135	31.50	63.00	94.50
2.	Visitors (10% of the total residential population)	70	45	2.1	1.05	3.15
3.	Shops (2637.42 sq. m) (1 no. / 3 sq. m.)	879	45	26.37	13.18	39.55
4.	Club House (841.54 sq. m) (1 no. /3 sq. m.)	281	45	8.43	4.21	12.64
5.	Green Area (3021.17 sq. m.)		5 Lit / sq. m.			15.00
Total		1930		68.40	81.44	164.84 Say

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					say 69	Say 81	165
Environmental management d	uring construc	ction phase					
Activity	Impacts			Prec	autionary	measures	
Site Clearance	• Increased	level of	dust &	For c	controlling a	air pollution :	
Excavation	other air po	ollutants		• W	ater Sprink	ling	
Construction of Structures	• Increased N	Noise level.		• C	over on true	cks	
• Heavy vehicle traffic				• U	se of RMC		
• Use of DG Set				• V	ehicles with	n valid PUC	
• Open burning of waste				• M	laintaining	smooth traffic	flow
				• D	G sets: As	s per CPCB	norms, Proper
				Μ	laintenance,	, Use of Low s	sulphur fuel.
				Rest	ricting open	burning of so	olid waste
				For c	controlling 1	noise pollution	n :
				• B	arricades a	long the peri	phery of the
				si	te.		
				• Ea	ar Plugs for	Labourers	
				• D	.G. sets wit	h acoustic End	closures.
				• N	o noise poll	luting work in	night shifts.
				• U	sing electr	ically operate	ed construction
				ec	uipment.		

#### Water management

Environmental Component	Activity	Impacts	Precautionary measures
Water	<ul> <li>Use of fresh Water for Construction activity / labours</li> <li>Wastewater generation</li> <li>Disposal of site Run off into SWD</li> <li>Water logging</li> </ul>	<ul> <li>Strain on the water supply in the vicinity</li> <li>Sedimentation,</li> <li>Pollution of nearby water courses.</li> <li>Unhygienic condition for surrounding residents.</li> </ul>	<ul> <li>Use of tanker water for construction. No burden on municipal supply</li> <li>Provision of temporary toilets and bathing facilities.</li> <li>Construction water will be channelised properly and silt traps will be provided before disposal into</li> </ul>

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		<ul><li>municipal drain.</li><li>Precaution to avoid water logging</li></ul>
		during construction.

Environmental Component	Activity	Impacts	Precautionary measures
Soil	<ul> <li>Preconstruction and excavation debris</li> <li>Storage of construction material / chemicals</li> <li>Transportation of hazardous material</li> <li>Residual paints Solvents/ bituminous material etc.</li> <li>Heavy vehicle operation / maintenance</li> <li>Generation of garbage by labourers</li> </ul>	<ul> <li>Loss of good fertile soil</li> <li>Soil erosion,</li> <li>Soil contamination due to mixing of construction material/ accidental spillage of chemicals /oils</li> </ul>	<ul> <li>Recycle of Debris as far as possible in construction area.</li> <li>Disposal of debris Debris shall be used for filling purpose, water proofing etc to the extent possible &amp; balance quantity shall be disposed to authorize landfill site.</li> <li>Proper and Separate storage of construction material</li> <li>Storage of all petroleum products on impervious layers viz. concrete.</li> <li>Usage of Oil trays wherever oil spillage is expected.</li> <li>Transportation, storage and handling, disposal of HW as per their guidelines and handing it over to</li> </ul>

# Soil & Construction Waste Management

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	<ul> <li>authorized a</li> <li>Most u electrically machinery.</li> </ul>	gencies. se of operated
	• Segregation garbage	of

#### **Ecological Environment**

Environmental Component	Activity	Impacts	Precautionary measures
Ecology	<ul> <li>Site clearance,</li> <li>Construction of structures</li> <li>Cutting of trees.</li> </ul>	<ul> <li>Disturbing natural flora &amp; fauna</li> <li>Loss of vegetation from chemical spills from vehicles</li> </ul>	<ul> <li>Plantation of local tree species.</li> <li>Plantation of trees will start in mid of construction phase.</li> <li>Regulation of vehicular trips and speed and proper maintenance of machinery.</li> </ul>

#### Details of energy conservation measures

- In the operational phase, appropriate energy conservation measures and management plan will be adopted in order to minimize the consumptions of non-renewable fuel. The following measures are suggested to be adopted:
- ▶ Use of CFL instead of GLS lamps for flats and Common Areas.
- > Use of  $T_5$  lamps instead of normal fluorescent lamps in basement.
- ➢ Using electronic ballast.
- > Lighting and switching of common area shall be designed keeping in mind day light integration.
- > D.G. sets would be provided with auto cut and auto start mechanism.
- > Building will have appropriate design to shut out excess heat and gain loss
- Power Factor be maintained between 0.95 and unity, for major equipment like-STP etc. This will reduce electrical power distribution losses in the installation.

#### **Emergency Preparedness Plan In Operational Phase:**

- > On Site Emergency Preparedness plan :
- Display of Emergency phone nos. (Includes phone number and address of nearby hospital, fire station, police station, public help service etc.)
- > Mock drill in every six months to check the working of all emergency services.
- > Training to all occupiers for different type of emergencies.
- > Periodic maintenance and checking of all equipments.
- > Off Site Emergency Preparedness plan :
- > Awareness programme will be conducted with the help of local NGOøs

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- During the mock drill training, some of the local responsible people will be also be participated and will be given training for the emergency preparedness.
- Nearby fire station, hospital, police station and local helpline will be displayed in the surrounding area for the better contact.

#### Budgetary allocation for EMP During construction phase per year

Parameter	Total cost (Rs. Lacs / Year)
Water for dust suppression	4.32
Site sanitation	3.00
Environmental monitoring	0.96
Disinfection	2.40
Health check up	1.80
Total	12.48

#### **During construction phase**

Pollution	Parameters	Frequency	Location	Unit cost	No of	Samples	Cost	No. Of	Total
Monitoring				per	Locations	per	per	years of	Rs.
_				Sampling		Year	Year	construction	
				&		(No.)	(Rs.)		
				Analysis					
				(Rs.)					
Air quality	RSPM,SO2,	Quarterly	At major	3000	3	4	36,000		36,000
	NOX		Construction					1	
			area						
Noise	Equivalent	Daily	At major						
Level	noise level		Construction						
			area						
Drinking	Analysis of	Monthly	At source	5000	1	12	60000		
Water	water for		( municipal/						
Analysis	physical,		tankers)					1	60000
-	chemical,							1	00000
	biological								
	parameters.								
Total							96,000		96,000

Budgetary allocation for EMP During Operation Phase

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Parameter	Total Set Up Cost in Rs Lac	Operational & Maintenance Cost (Rs lac/annum)		
STP cost	28	6.0		
Rain water harvesting (7 nos. of recharge pits)	14	0.24		
Environmental monitoring	3.5	1.5		
Gardening	81.26	3.9		
Cost for treatment of biodegradable garbage in Mechanical Composter	5.25	2.0		
Other Maintenance Cost (For water tanks, DG, etc.)	-	1.68		
Total cost	132.01	15.32		

After deliberations the EMP and other submissions made by the PP were found to be satisfactory and acceptable hence <u>committee decided to recommend the case for grant of prior EC subject to the following special conditions</u>:

- 1. Total fresh water demand in the project shall not exceed 81 KLD.
- 2. PP shall install roof-top Solar Panel on all the buildings.
- 3. As proposed 07 No. of Water Harvesting pits shall be developed and regularly operated and maintained by the PP.
- 4. Dual plumbing shall be installed with clear demarcation for recycling the treated sewage in flush and horticulture.
- 24. **Case No. 1165/2013** Shri Deepesh Asnani, Director, Asnani Builders and Developers Pvt. Ltd., Block – A, Second Floor, Mansarowar Complex, (Near M.P. Nagar –Bpl.) Bhopal (M.P.) – 460211 <u>Building Construction.</u> Spring Valley Dew Khasra NO. 19, 20, 22, 29, 38, 317, 316(Part) 31, 32, 34, 35, 36, 37, 41 at Village ó Katara, Bhopal (M.P.) Proposed Total Area -36000.00 Sqm. (8.9 Acre ).

This is a building construction project comprising plot area of 8.9 Acres and total built-up area of 49924 m2. The project requires prior EC as per the provisions of EIA Notification. The application and realted documents were forwarded by SEIAA for appraisal and necessary recommendation from SEAC. The case was presented by the PP. The presentation and submissions made by the PP reveals following:

Salient leatures of the project:	
Project features	Total Plot area = 36000 SQMT, Total Constructed area = 49924 SQMT.
Estimated population	3575 NOS.

# Salient features of the project:

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Estimated water req Construction phase Operation phase	350 KLD (source: private water tank/treated / semi-treated water) 450 KLD
Power demand / Power back-up	2160 KVA / 500 KVA (2 X 250 KVA)
Waste water generation construction phase Operation phase	4.5 KLD (45 LPCD FOR 100 WORKERS) 381 KLD
Source of power	MPMKVVC (Madhya Pradesh Madhya Kshetra Vidyut Vitran Company)
Solid waste generation	2145 (from occupant @.60Kg/h/d)+54 Kg(from STP per day)=2199KG/D Say 2200kg/D

#### **Design Features**

- Total Plot area = 36000 SQMT.
- " Total Constructed area = 49924 SQMT.
- ″ 648 DU
- " 100% parking
- " Stilt + 6 construction 18m height
- " Adequate day light and natural ventilation
- " Minimum Road Width is 6m
- " Water supply sump of 350 m<sup>3</sup> and 200 m<sup>3</sup> will be provided
- " STP  $400 \text{ m}^3/\text{d}$
- " Dual Plumbing
- " Power backup through DG for common lighting and lift
- <sup>"</sup> 50% Street light on solar panel
- Adequate fire protection system
- Six Rain water Harvesting pit with pile below paved area
- " About 30% area is green

#### Water Calculation Spring Valley Dew

Descriptio	No. o	ofPPU	Total	Water	Total	Flushing	Total	
n	Units		Population	requiremen		Water		
				t excluding		requirement		
				flushing				
			(i)	(ii)	(i)x(ii)	(iii)	(i)x(iii)	
1 BHK	108	5	540	105	56700	30	16200	
2 BHK	240	5	1200	105	126000	30	36000	
3 BHK	205	5	1025	105	107625	30	30750	
4 BHK	5	6	30	105	3150	30	900	
Pent	90	5	450	105	47250	30	13500	

[S.C. Jain, Chairman]

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House							
Visitor Population	10% of tota population	1325	30	9750			
Total	648 DU	3575					
				350475	А	97350	В
T. water Required A+B				447825	Say 450 m <sup>3</sup>		
Calculatio n for STP	80% of A			280380			
	say (m3)			281	С	97.35	D
	Total C+D (m3)			378.35			
	Say			400			

Impact prediction and its Mitigation

Potential Impact	Source of Impact	Proposed Mitigation Measures	Impact Evaluation	
Ground Water Contamination	Construction Phase Waste water generated from Labor settlements	<ul> <li>Water tight leak proof wastewater channel from the site would be connected to the septic tank.</li> <li>Solid waste will be kept in air tight containers</li> </ul>	No significant impact as negligible quantities generated as majority of laborers would be deployed locally	
	Operation Phase Sewage treatment	<ul> <li>Complete sewage system including STP will be water tight and splash free</li> <li>After stabilization dried sludge cakes will be used as manure for landscaping and greenbelt development</li> <li>Solid waste will be kept in air tight containers</li> </ul>	No negative impact on ground water quality envisaged.	
<b>Potential Impact</b>	Source of Impact	Proposed Mitigation Measures	Impact Evaluation	
Ground Water Depletion	Construction Phase	<ul> <li>No extraction for Construction activity use of Tanker Water for construction activity</li> <li>Early Implementation of Rain Water Harvesting Scheme</li> </ul>	No impact on ground water quantity envisaged as there would be sustainable extraction of groundwater at every stage of the project.	

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Surface water contamination	Operation Phase Construction Phase Surface runoff from site during construction activity.	<ul> <li>A comprehensive water supply management plan will be put in place to ensure sustainable water supply and usage using duty and standby boreholes ; sustainable yields of boreholes will be determined by pumping tests and will not be exceeded in terms of both water abstraction rates and pumping duration.</li> <li>Implementation of Rain Water Harvesting Scheme</li> <li>Waste water treatment and reuse</li> <li>All routine maintenance of construction machinery and vehicles, if carried out on site, shall be carried out in a designated workshop / maintenance area with concrete hard standing surface and drainage to an oil interceptor.</li> <li>Temporary drains should be constructed and directed in such a manner as to reduce the risk of water logging or erosion and siltation of downstream drainage system</li> </ul>	No off site impact envisaged as no surface water receiving body nearby.
	Operation Phase	STP is provided to treat the	No off site impact envisaged
	Discharge of	wastewater so that it can be reused	ito on site impact envisaged
	domestic wastewater	for greenbelt development and other	
	to surface water	activities	
	body.		

Land environment

**Impact Prediction and Mitigation Measures** 

<b>Potential Impact</b>	Source of Impact	<b>Proposed Mitigation Measures</b>	Impact Evaluation
Soil contamination	Construction Phase	Construction debris will be	Impact will be local, as
	Disposal of construction Debris	collected and suitably used on	any waste generated
		site as per construction waste	will be reused for
		management plan.	construction
			activities. Not
			significant.

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[Ms Mohini Saxena, Member]

[V.Subramanian, Member]

[K.P. Nyati, Member]



	Operation Phase	Proposed solid waste	No Significant Impact
	Dumping of municipal solid	management system for waste	
	waste on land.	collection, Storage and	
		Segregation. Waste will be	
		transported to the municipal	
		landfill site for treatment and	
		disposal.	
	Waste oil handling from D.G sets	Waste oil generated will be sold to authorized recyclers	Negligible impact
Soil erosion	Construction Phase / Operation	Vegetation over soft area	Negligible impact
	Phase		

#### Power supply & electrical aspects during operation

- 1. Maximum utilization of natural light
- 2. LED/CFL lighting fixtures in common areas
- 3. Use of solar lights partly in open areas.
- 4. Energy efficient motors
- 5. Appropriate design to reduce heat gain and loss.
- 6. Thermal insulation for roof and exposed wall.
- 7. Glazing glass to maintain the U value as per ECBC.
- 8. External glazing will be below 60% of the total vertical surface as per ECBC.

#### **Electrical and LV System**

- 1. Copper conductor cables are specified for sizes of 16 sq mm and below this will reduce losses and improve reliability.
- 2. All lifts shall be provided with AC variable voltage, variable frequency drives (ACVVF).
- 3. Power factor shall be maintained 0.95 or higher. This will reduce electrical power distribution losses in the instillation.
- 4. Compact Fluorescent Lamps and energy efficient fluorescent tube lights (T-5) with high frequency ballast shall be used for corridors and common areas.
- 5. Transformers shall have minimum no load losses as compared to conventional transformers.
- 6. All cables shall be properly rated to avoid heating during use. This also indirectly reduces losses and improves reliability.

#### Estimated savings

- Reduced annual energy consumption of 17% per year
- Reduced water consumption by 30-40%
- > Improved Indoor Environment in terms of fresh air, daylight and low VOC materials
- Appropriate use of materials and technology Validated by IGBC and certified under LEED New construction.

#### Use energy saving and recycled materials for construction

- > Use of ready mix concrete containing fly ash or PPC which contains fly ash.
- ▶ Use of PPC (which contains minimum 15% of fly ash) in mortar and plaster.

[S.C. Jain, Chairman]

[V.Subramanian, Member]

[Ms Mohini Saxena, Member]

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- > Use of PPC or fly ash based paving blocks/tiles and pre-cast elements.
- Composite wood products such as hardboards, block-boards, plywood etc. made from recycled wood scrap and dusts.
- Fibrous gypsum plaster boards made from industrial wastes.
- Finished concrete flooring, ceiling tiles etc. which are made from low embodied energy products and recycled materials or from resource efficient finishes.

After deliberations PP was asked to submitted following information along with the supporting documents:

- 1. Mode of disposal of excess treated sewage.
- 2. Provision of Play Ground has to be explored and submitted in the project.
- 3. An Affidavit has to be furnished stating that the developer of the project shall take up the operation/maintenance of STP and Management of MSW for future.

The next meetings were decided to be held on 10<sup>th</sup> and 11<sup>th</sup> of September 2013.

Meeting ended with thanks to the Chairman and the Members.

[S.C. Jain, Chairman]

[V.Subramanian, Member]

[Ms Mohini Saxena, Member]