

The 456<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 17<sup>th</sup> September, 2020 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting in person or through video conferencing -

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Dr. Sonal Mehta, Member.
4. Dr. Jai Prakash Shukla, Member.
5. Dr. R. Maheshwari, Member.
6. Dr. Rubina Chaudhary, Member.
7. Shri A.A. Mishra, Secretary.

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

1. **Case No. - 5996/2019 M/s Signature Builder & Colonizers, 18-19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.). Prior Environment Clearance for Construction of Group Housing Project "Signature 360" Total Plot Area = 75,700 sqm., Total Built-up Area = 64,183.93 sqm at Khasra No. 367, 368, 369, 375, 376, 377, 378, 379, 380, Village - Barrai, Tehsil - Huzur & Dist. - Bhopal (M.P.)**

This is case for Construction of Group Housing Project "Signature 360" Total Plot Area = 75,700 sqm., Total Built-up Area = 64,183.93 sqm at Khasra No. 367, 368, 369, 375, 376, 377, 378, 379, 380, Village - Barrai, Tehsil - Huzur & Dist. - Bhopal (M.P.) The project requires prior EC before commencement of any activity at site.

Earlier ToR (Violation) Recommended in 355th SEAC Meeting date 29/03/19. ToR letter issued vide letter no. 182 dated 24/04/19.

PP has submitted EIA (Violation) vide letter dated 20/08/2020 which was forwarded through SEIAA vide letter no. 2472 dated 27/08/2020, which was placed before the committee.

During presentation PP submits the following salient features regarding project constructed and other construction details of this project:

**PROJECT AREA STATEMENT**

Area Details	Area (m <sup>2</sup> )
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Total Land area	75700
Area under Residential Use	48512.7
Area under Agriculture use (Future Expansion)	12180
Area under 60 M. Wide master plan road	15007.3
Net Planning Area	48512.7

**BUILT-UP AREA STATEMENT**

Area Details	Area (m2)	%
open space	5576	11.49
plotted development	16784.05	34.60
multiunit Development	15751.88	32.47
informal Sector Plot	728	1.50
Convenient shops Area	1646.46	3.39
service area	487	1.00
Area under road	7539.33	15.54
Total Area	48512.72	100.00

**UNIT DETAILS**

To be Developed	Unit Details
Duplexes	177
Apartments	456

EWS	46
Multi-dwelling units	Total 9 Units (A, B, C, D, E, F, G, H, I)
Maximum Height	22 m Approx.
Area utilization	G+6, Duplex houses

PP submitted that about 62 % constructions have been completed of this project. It was also observed by the committee that PP has proposed Rs. 17.82 lakh as cost of remediation and natural community resource augmentation plan. Committee instructed that cost of air monitoring is too low hence enhancement of air monitoring cost shall be enhanced and submit revised remediation and natural community resource augmentation plan as suggested.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020 revised remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation in the tune of suggested guidelines by the committee, with the supported by documentary proofs, such as bills, CA audit, certificates, photographs, prescribed various undertakings and CER.

**REVISED REMEDIATION & NATURAL AUGMENTATION PLAN**

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
1.	Land use as per Approved Master Plan by TNCP, Bhopal	Broken land is as per master plan approved by T&CP (enclosed land use area breakup & Undertaking as Annexure – I, II & III) <b>NO VIOLATION</b>	-	-	Project Cost Capital Cost	<b>40,34,054.91</b>	--	<b>T &amp; CP Letter No. 1311/L.P. 178/ 29/ Nagrani/ GKA/2010 dated 08/09/2011 (attached as Annexures)</b>
					Land cost	8,96,55,473.00	--	
2	Environmental Sensitive Places,	Land is in possession of	-	-	Land is in possession	-	-	

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			Capital	Recurring		Capital	Recurring (Annual)	
	Land Acquisition Status, Resettlement & rehabilitation	Signature 360 enclosed land revenue record No R & R Applicable <b>NO VIOLATION</b>			of Signature Builders & Colonizers under joint registered joint venture. All land records are enclosed with our EC Application.			
3	Baseline Environmental Quality (2013-28)	All the parameters are in the comfort zone in one season EIA study <b>Monitoring data from 2013-18 is pending @ 30000/ year * 5 Years (2 Air, 2 Noise, 1 water)</b>	--	<b>1,50,000 (amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA)</b>	-	-	<b>30000</b>	<b>We have done EIA study. All baseline data results are found satisfactory</b>
4	A) Land	Total land area <b>75700.00</b> sq.mt., & Built Up Area - <b>64183.93</b> Sq.mt., Excavated material = 67950Cu.m. (3 M depth) Topsoil = 22650.00Cu.m. (1 m depth) Total quantity of topsoil has been used for	-	-	Land is in possession of Signature Builders & Colonizers under joint registered joint venture. All land records are enclosed with our EC Application.	-	-	<b>No Violation</b>

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			Capital	Recurring		Capital	Recurring (Annual)	
		the development of 5576.00 sq.mt. of landscaping area.						
	B) Ground Water	No new ground bore well is done for construction purpose.	--	--	Not applicable, till date no borewell for ground water tapping is proposed.	--	--	<b>NO VIOLATION</b>
	C) Surface water	Not applicable, No Water body exist within the project lease area	--	--	Not applicable	--	--	<b>NO VIOLATION</b>
	D) Air	Water sprinkling had been done as per terms & condition of the work order agreements (2 water tankers/ day)	--	--	Construction period = 5 years, Working Day = 1000 day Per day water requirement = 10 KLD (2 Tanker @ 82/ tanker water cost)	--	165000	As per contract All bills submitting in hard copies to SEAC. (attached as Annexure)
	E) Biodiversity	<b>NOT APPLICABLE</b>	--	--	<b>NOT APPLICABLE</b>	---	--	We have not created any change in the biodiversity of the area.
	f) Noise & Vibration	Site is fully barricaded (Annexure VI)			All new machinery has been	--		Bills submitted in hard copies.

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			Capital	Recurring		Capital	Recurring (Annual)	
		All modern and new machinery was used on site.) <b>NOT APPLICABLE</b>			used on site			(attached as Annexure)
	g) Socio economy & Health	-	-	-	-	-		Done in EIA study
	g.a. Occupational Health checkup for 35 Workers	Initial Medical Examination (IME) for 35 workers Deployed on site (35 X 1000 X 5)	--	<b>1,75,000 (amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA)</b>	Initial Medical Examination (IME) for 35 workers deployed on Site. (1000 Rs/workers) for a year.	-	<b>25000</b>	<b>Total Calculated value for occupational health and check-up, PPE's and Worker's Shelter have been covered under remedial cost</b>
	g.b. Personal Protection Equipment's	All PPE's distrusting to the laborer and staff are under contractor's scope. 35X1200)		<b>42,000 (amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA)</b>	Helmet, Jackets, hand gloves & Boots will be Provide to 35 Workers for remaining 40% construction work.	<b>30,000</b>	<b>5000</b>	
	g.c. Shelter and Sanitation for 35 workers	Temporary shelter & Mobile toilet has been provided to the workers	--	--	Provision of Temporary shelter & Mobile toilet will be extended in	<b>10,800</b>	-	

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			Capital	Recurring		Capital	Recurring (Annual)	
					numbers during the time of construction for 35 workers			
5	Contour Plan With slopes, Drainages pattern of the site and surrounding area any obstruction of the same by the projects.	No conversion is done in storm water drainage pattern on site	-	-	--	-	-	No Violation
6	Tree Felling	--	-	-	No tree felling is proposed.			No tree felling is proposed.
7	Tree plantation	Total 400 trees planted & development of landscaping area (400 trees @Rs. 500+landscaping development)	-	-	All type of landscaping development & maintenance including tree cost	15,01,102	190000	All remedial cost will be utilized for left over plantation & further development of additional landscaping.
8	Permission for forest Land	NOT APPLICABLE	-	-	NOT APPLICABLE	-	-	No forest area is involved in this project.
9	Environment policy	Policy is part of Terms & Condition of mutual Agreement	-	-	-	-	-	Policy is part of Terms & Condition of mutual Agreement.
10	Ground Water Classification	At construction phase no ground water	-	-	At construction phase no ground	--	--	No violation

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		has been used.			water has been used,			
11	Source of Water	A – Construction Phase	--	--	--	--	--	During Construction phase we have used Water Tanker of Rs. 1,65,000/-.
		B – Operational Phase	--	--	--	--	--	Water supply permission vide Provisional Bulk Connection letter no. 108/WWD/ZONE 19/2015 dated 30/06/2015. (attached as Annexure)
12	Source of Waste Water Treatment	450 KLD STP installed.	--	--	450 KLD STP (installed) – Rs. 2800000.00 for civil construction (Labor & Material Cost) 1500000.00 for mechanical installations.	4300000	300000	Balance Sheet & Sample Bills are attached as Annexure.
13	Dual Plumbing	Dual Plumbing for 60% of constructed area has been completed.	--	--	Dual Plumbing for 60% of constructed area has	1405000.00		Balance Sheet & Sample Bills are attached as



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					been completed.			Annexure.
12	Rain Water Harvesting	9 No. Rain water harvesting pit has been constructed for the project.	--	--	Total 9 nos. of pits are proposed on site for operational phase	<b>136930.00</b>	<b>20,000</b>	--
13	Soil Characteristics & Ground Water Table Top Soil Conservation	Total land area <b>75700.00</b> sq.mt., & Built Up Area - <b>64183.93</b> Sq.mt., Excavated material = 67950 Cum (3 M depth) Topsoil = 22650.00 Cum. (1 m depth) Total quantity of topsoil has been used for the development of 5576.00 sq.mt. of landscaping area.	--	--	8m depth of rain water harvesting pits have been proposed, Quality of top soil & costing of its disposal	--	<b>As per above</b>	<b>NO VIOLATION</b>
14	Solid Waste Generation Treatment	All the construction waste has been reused for the filling of the low-lying project area.	<b>1,50,000.00</b>	--	Solid Waste will be reused in proposed boundary wall & stone pitching to reduce RCC work on site	<b>00</b>	<b>00</b>	<b>MSW NOC is attached with hard copy reply. Vide letter no. 788/SWA.V./14 dated 26/12/2014</b>

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								(attached as Annexure)
		Permission for Disposal of Solid waste from BMC obtained from 2014	--	--	Street garbage shall be controlled segregated transferred and disposed-off by Nagar Nigam Bhopal.	--	50000	
15	Energy conservation & Energy Efficiency (LED bulb & Solar System)	Solar light proposed 15 KW	7,50,000	--	Provisional of the solar panels for streets lighting & common areas and LED light for commercial unit	--	30,000	We have proposed Solar Power of 15 KW.
16	D G Sets	Till date RMC has been used for construction.	-	-	-	--	--	We have not used DG set in our construction phase. (RMC bills attached as Annexure)
17	Parking & Roads	Approach road already exists sufficient space excises for Parking	-	-	Development of Open Parking & Other Services -	3061541	--	All adequate parking facilities have been provided as per T&CP norms.
18	Transportation of materials for construction	Till date on 60-62% construction	--	1,00,000 (amount may be	Storage hall/service yard will be	--	--	Some miscellaneous

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			Capital	Recurring		Capital	Recurring (Annual)	
		have been done.		proposed for additional plantation or as per the suggestions of SEAC/ SEIAA)	for materials stacking during further 40% construction.			transportation work had not been done in appropriate manner. We are proposing some rounded amount in our remediation cost.
19	Disaster Management Plan	-	-	-	Centralized control room with ERP system	--	--	--
	a) Fire	Machines were equipped with their fire extinguishing equipment. Till date on 70-74% construction have been done	<b>3,35,000 (amount may be proposed for fire machinery installation)</b>		Firefighting organizing and arrangement : External fire hydrant system, hose pipes, pumps with control panel, overhead tanks, first aid, fire extinguishers, sand buckets, Manual and automatic fire alarm, main security room etc.	<b>497036</b>	<b>50,000</b>	<b>All fire &amp; safety facilities have been provided for the 60% constructed area.</b>

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	b) Accidental & First aid etc.	First aid kit & room provided on site, enclosed photos No accident or injury is reported during the earlier construction period.	50,000	5000	First aid kit for worker's safety on site			
	c) Safety	All loading machines, dumpers & Equipment will be deployed as per safety norms mentioned in Agreement.	1,00,000.00	-	All loading machines, dumpers & Equipment will be deployed as per safety norms mentioned in Agreement.			
<b>Total</b>			<b>13,85,000/-</b>	<b>4,72,000</b>	<b>-</b>	<b>109,42,409</b>	<b>8,65,000</b>	<b>-</b>
Total Capital cost for Remedial Plan			<b>Say in Lacs</b>	<b>13.85</b>	Total capital cost for EMP	<b>Say in Lacs</b>	<b>109.42</b>	
Total recurring cost for Remedial Plan			<b>Say in Lacs</b>	<b>4.72</b>	Total Recurring Cost for EMP	<b>Say in Lacs</b>	<b>8.65</b>	
<b>Total Remediation Cost</b>				<b>18.57 Lakhs</b>	<b>Total EMP Cost</b>		<b>118.07 Lakh</b>	

Now our proposed total Remediation cost for Bank Guarantee is Rs. 18.57 Lakhs.

Thus, as above, PP has proposed Rs. 136.64 Lakhs (Rs. 18.57 Lakhs as Remediation Cost and Rs. 118.07 Lakhs as EMP) for this project and PP, M/S Signature Builder & Colonizers, 18 - 19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.) has proposed to submit bank guarantee of INR Rs. 18,57,000.00 towards Remediation Plan.

Committee after considering the reply recommends that PP may be asked to deposit the bank guarantee (BG) with three years validity of Rs. 18.57 Lakhs (equivalent to amount proposed in Remediation Plan /Restoration Plan) with the MP Pollution control Board after approval of the SEIAA as per the procedure laid down in the MoEF&CC Notification dated 08/03/2018.

The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of Environment Clearance for Construction of Group Housing Project "Signature 360" Total Plot Area = 75,700 sqm., Total Built-up Area = 64,183.93 sqm at Khasra No. 367, 368, 369, 375, 376, 377, 378, 379, 380, Village - Barrai, Tehsil - Huzur & Dist. - Bhopal (M.P.) For - Building Construction Project Category: 8(a), subject to the following special conditions and submission of bank guarantee (BG) with 03 years validity of Rs. 18.57 Lakhs (equivalent to amount proposed in remediation and resource augmentation plan) with the MP Pollution control Board, with following additional conditions:

### **Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

## **II. Air Quality Monitoring and preservation**

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF& CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets (1 X 320 KVA) proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking wills all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG set (1 X 320 KVA)) shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible Minimum cutting and filling should be done.
- iii. The total water requirement during operation phase is 389 KLD out of which 228 KLD is fresh water requirement and 275KLD will be the total treated/recycled water generated. 78KLD treated water will be used for flushing and for horticulture.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be to monitor to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one

day of total fires water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

- xiii. For rainwater harvesting, 09 recharge pits will be constructed for harvesting rain water. The total recharge capacity of these pits about 951m<sup>3</sup>/hr . Mesh will be provided at the roof so that leaves or any other solid waste/debris will be prevented from entering the pit.
- xiv. All recharge should be limited to shallow aquifer.
- xv. No ground water shall be used during construction phase of the project.
- xvi. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring report.
- xviii. Sewage shall be treated in the STP based on VORTEX based technology (Capacity - 450KLD). The treated effluent from STP shall be recycled/re-used for flushing. AC makes up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xix. The waste water generated from the project shall be treated in STP of 450 KLD capacity (based on VORTEX based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
- xx. No sewage or untreated effluent water would be discharged through storm water drains.
- xxi. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.



- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**V. Energy Conservation measures.**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured, Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

**VI. Waste Management**

- i. Total waste 1834 Kg/day, this consist all types of wastes , Domestic waste- 1776 Kg/day, horticulture waste 57.0 Kg/day, E- waste about 1.0 Kg/Annum , and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iv. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste 1.55 ton/day) shall be segregated into wet garbage and inert materials.
- v. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.

- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks, AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

**Vii. Green Cover**

- i. Total 4000 trees shall be planted in the area of 5576.0 sq. mt. (11.5 % of net plot area) which is developed as greenbelt development.
- ii. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (Planted).
- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iv. 6896 sq meters of area shall be provided for green belt development as per the details provided in the project document.
- v. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.
- vi. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

## **VIII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points
  - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. Total proposed Parking's arrangement for 410 ECS (in which 173 ECS for Silt parking, 13 ECS for shop Parking and 273 for open parking).
- iv. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

## **IX. Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.

- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Corporation Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly reports.
- iii. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Thus, as above, PP has proposed Rs. 136.64 Lakhs (Rs. 18.57 Lakhs as Remediation Cost and Rs. 118.07 Lakhs as EMP) for this project and PP, M/S Signature Builder & Colonizers, 18 - 19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.) has proposed to submit bank guarantee of INR Rs. 18,57,000.00 towards Remediation Plan.
- vi. The PP M/S Signature Builder & Colonizers, 18 - 19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.) has proposed to submit bank guarantee of INR 18,57,000.00 towards Remediation Plan and Natural & Community Resource Augmentation Plan.
- vii. For this project PP has proposed Rs 40.0 Lakh as Corporate Environment Responsibility (CER).

**XI. Miscellaneous**

- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC)

- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- v. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

**2. Case No 7316/2020 M/s Signature Builder & Colonizers, A-101, Orchard Point, Place Orchard, Kolar Road Bhopal (MP)-462042 Prior Environment Clearance for approval of Group Housing Project "Signature Residency" Total plot area 24600 sq.mtr. (Built up area 33587.896 sq.mtr. (including FAR+Non FAR area)) at Khasra No. 299/1/1, 298/1/1, 298/2/1, 299/2, 300/2/3(300/2/3/1(ka), 300/2/3/2(ga)), 300/2/2/ka/1, 300/2/2/ga/1, 300/2/ka/2, 300/2/ga/2 at Village Banjari, Tehsil Huzur Kolar Road District Bhopal (MP)**

This is case of Prior Environment Clearance for approval of Group Housing Project "Signature Residency" Total plot area 24600 sq.mtr. (Built up area 33587.896 sq.mtr. (including FAR+Non FAR area)) at Khasra No. 299/1/1, 298/1/1, 298/2/1, 299/2, 300/2/3(300/2/3/1(ka), 300/2/3/2(ga)), 300/2/2/ka/1, 300/2/2/ga/1, 300/2/ka/2, 300/2/ga/2 at Village Banjari, Tehsil Huzur Kolar Road District Bhopal (MP)

Earlier this case was scheduled for presentation and discussion in 448th SEAC meeting dated 23/07/2020 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 30 /08/2020 which was forwarded through SEIAA vide letter no. 2581 dated 04/09/2020, which was placed before the committee.

During presentation PP submits the as the proposed project has already been developed or constructed. About 95% of project is already developed and are already in operational condition for resident. The project area is developed area, which is surrounded by individual residential units, apartments, commercial establishments. The area has social infrastructure amenities like education and health centers. The demography of the area will change as it will involve 2660 occupants in the proposed housing project.

After presentation and deliberation, it was observed by the committee that the remediation's plan and natural community resource augmentation plan submitted by PP needs to be revised.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020 revised remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation in the tune of suggested guidelines by the committee, with the supported by documentary proofs, such as bills, CA audit, certificates, photographs, prescribed various undertakings and CER.

**REVISED REMEDIATION & NATURAL AUGMENTATION PLAN**

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
1	Land use as per Approved Master Plan by TNCP, Bhopal	Broken land is as per master plan approved by T&CP (enclosed land use area breakup & Undertaking as Annexure) NO VIOLATION	-	-	Project Cost · Capital Cost · Land cost (Joint Venture Project)	<b>2,814,360.85</b>	--	<b>T &amp; CP Letter No. 251/58/L.P. 00/ 29/ GKA/Nagrani/ 2009-10 dated 22/03/2010</b>
2	Environmental Sensitive Places, Land Acquisition Status, Resettlement & rehabilitation	Land is in possession of Signature Residency enclosed land revenue record No R & R Applicable NO VIOLATION	-	-	Land is in possession of Signature Builders under joint registered joint venture. All land records are enclosed with our EC Application.	-	-	
3	Baseline Environmental Quality (2012-	All the parameters are in the comfort	--	<b>1,50,000 (Amount may be</b>	-	-	<b>30,000.00</b>	<b>We have done EIA study. All baseline data</b>

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
	17)	zone in one season EIA study Monitoring data from 2012-17 is pending @ 30000/ year * 5 Years (2 Air, 2 Noise, 1 water)		<b>proposed for additional plantation or as per the suggestions of SEAC/SEIAA )</b>				<b>results are found satisfactory</b>
4	A) Land	Total land area <b>24600.00</b> sq.mt., & Built Up Area - <b>33587.89 Sq.mt.</b> , Excavated material = 24000 Cu.m. (3 M depth) Top Soil = 8000.00 Cu. m. (1 m depth) Total quantity of topsoil have been used for the development of 3,564.43 sq.mt. of landscaping area.	-	-	Land is in possession of Signature Builders & Colonizers under joint registered joint venture. All land records are enclosed with our EC Application.	-	-	<b>No Violation</b>
	B) Ground Water	No new ground bore well is done for construction purpose.	--	--	Not applicable, till date no bore-well for ground water tapping is proposed.	--	--	<b>NO VIOLATION</b>

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
	C) Surface water	Not applicable, No Water body exist within the project lease area	--	--	Not applicable	--	--	<b>NO VIOLATION</b>
	D) Air	Water sprinkling had been done as per terms & condition of the work order agreements (4 water tankers/day)	--	--	<b>Construction period = 5 years, Working Day = 1000 day Per day water requirement = 12 KLD (4 Tanker @ 125/ tanker water cost)</b>	--	<b>538,869.00</b>	<b>As per contract All bills submitting in hard copies to SEAC. (attached as Annexure)</b>
	E) Biodiversity	<b>NOT APPLICABLE</b>	--	--	<b>NOT APPLICABLE</b>	---	--	<b>We have not created any change in the biodiversity of the area.</b>
	f) Noise & Vibration	Site is fully barricaded; all modern and new machinery was used on site.) <b>NOT APPLICABLE</b>	<b>1,00,000/-</b>	--	All new machinery has been used on site	--	--	<b>Bills submitted in hard copies. (attached as Annexure)</b>
	g) Socio economy & Health	-	-	-	-	-		<b>Done in EIA study</b>
	g. a. Occupational Health checkup for 30 Workers	Initial Medical Examination (IME) for 30 workers Deployed on	--	<b>150000 (Amount may be proposed for</b>	Initial Medical Examination (IME) for 30 workers deployed on	-	<b>30,000.00</b>	<b>Total Calculated value for occupational health and</b>



Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
		site.30X1000X5)		<b>additional plantation or as per the suggestions of SEAC/SEIAA )</b>	Site. (1000 Rs/workers) for a year.			<b>checkup, PPE's have been covered under remedial cost</b>
	g.b. Personal Protection Equipment's	All PPE's distribution to the laborers and staff are under contractor's scope. 30X1200)	<b>36000 (Amount may be proposed for additional plantation or as per the suggestions of SEAC/SEIAA )</b>	-	Helmet, Jackets, hand gloves & Boots will be Provide to 30 Workers for remaining 5% construction work.	<b>30,000</b>	<b>5,000.00</b>	
	g. c. Shelter and Sanitation for 30 workers	Temporary shelter & Mobile toilet has been provided to the workers	--	--	Provision of Temporary shelter & Mobile toilet will be extended in numbers during the time of construction for 30 workers	<b>107,114.00</b>	-	<b>No Violation</b>
5	Contour Plan With slopes, Drainages pattern of the site and surrounding	No conversion is done in storm water drainage pattern on site	-	-	--	-	-	<b>No Violation</b>

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
	area any obstruction of the same by the projects.							
6	Tree Felling	--			No tree felling is proposed.			No tree felling is proposed.
7	Tree plantation	Total 160 trees planted & development of landscaping area(160 trees @Rs. 500+landscaping development)	80,000.00	-	All type of landscaping development & maintenance including tree cost	376,000.00	75,000.00	All remedial cost will be utilized for left over plantation & further development of additional landscaping.
8	Permission for forest Land	NOT APPLICABLE	-	-	NOT APPLICABLE	-	-	No forest area is involved in this project.
9	Environment policy	Policy is part of Terms & Condition of mutual Agreement	-	-	-	-	-	Policy is part of Terms & Condition of mutual Agreement
10	Ground Water Classification	At construction phase no ground water has been used.	-	-	At construction phase no ground water has been used,	--	--	No violation
11	Source of Water	A – Construction Phase	--	--	--	--	--	During Construction phase we have used Water Tanker supply.

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
		B – Operational Phase	--	--	--	--	--	Water supply permission vide Provisional Bulk Connection letter no. 107/WWD/ ZONE 19/2015 dated 30/06/2015. (attached as Annexure)
12	Source of Waste Water Treatment	250 KLD STP installed.	--	--	250 KLD STP (installed) – Rs. 1000000.00 for civil construction (Labor & Material Cost) 1200000.00 for mechanical installations.	2,200,000.00	450,000.00	Balance Sheet & Sample Bills are attached as Annexure. Installation in final stage.
13	Dual Plumbing	Dual Plumbing for 95% of constructed area has been completed.	--	--	Dual Plumbing for 95% of constructed area has been completed.	1,503,122.00	--	Balance Sheet & Sample Bills are attached as Annexure.
12	Rain Water Harvesting	5 No. Rain water harvesting pit has been constructed for the project.	--	--	Total 5 nos. of pits have been constructed on site for operational phase	299,793.00	25,000.00	--
13	Soil Characteristics,	Total land area 24600.00	--	--	8 m depth of rain water	--	--	NO VIOLATION

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
	Ground Water Table & Top Soil Conservation	sq.mt., & Built Up Area - <b>33587.89 Sq.mt.</b> , Excavated material = 24000 Cu.m. (3 M depth) Top Soil = 8000.00 Cu.m. (1 m depth) Total quantity of topsoil have been used for the development of 3,564.43 sq.mt. of landscaping area.			harvesting pits have been proposed, Quality of top soil & costing of its disposal			
14	Solid Waste Generation Treatment	All the construction waste has been reused for the filling of the low-lying project area. Permission for Disposal of Solid waste from BMC obtained from 2014	<b>50,000.00</b>	--	Solid Waste will be reused in proposed boundary wall & stone pitching to reduce RCC work on site Street garbage shall be controlled segregated transferred and disposed of by Nagar Nigam Bhopal.	<b>36,000.00</b>	<b>50000</b>	<b>MSW NOC is attached with hard copy reply. Vide letter no. 790/SWA.V./14 dated 26/12/2014. (attached as Annexure)</b>
15	Energy conservation & Energy Efficiency (LED	Solar light proposed <b>10 KW</b>	<b>500,000.00</b>	--	Provisional of the solar panels for streets lighting	--	<b>30,000.00</b>	<b>We have proposed Solar Power of 10</b>

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
	bulb & Solar System)				& common areas and LED light for commercial unit			KW.
16	D G Sets	Till date RMC has been used for construction.	-	-	-	--	--	We have not used DG set in our construction phase. (RMC bills attached as Annexure)
17	Parking & Roads	Approach road already exists sufficient space for Parking	-	-	Development of Open Parking & Other Services -	3,315,421.00	--	All adequate parking facilities have been provided as per T&CP norms.
18	Transportation of materials for construction	Till date 95% construction have been done.	--	50000 (Amount may be proposed for additional plantation or as per the suggestions of SEAC/SEIAA )	Storage hall/service yard will be for materials stacking during further 5% construction.	--	--	Some miscellaneous transportation work had not been done in appropriate manner. We are proposing some rounded amount in our remediation cost.
19	Disaster Management Plan	-	-	-	Centralized control room with ERP system	--	--	--

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
	a) Fire	Machines were equipped with their fire extinguishing equipments. Till date on 95% construction have been done	<b>600000 (Amount may be proposed for fire machinery installation)</b>		Firefighting organizing and arrangement: External fire hydrant system, hose pipes, pumps with control panel, overhead tanks, first aid, fire extinguishers, sand buckets, Manual and automatic fire alarm, main security room etc.	<b>200,000.00</b>	<b>50,000.00</b>	<b>All fire &amp; safety facilities have been provided for the 95% constructed area.</b>
	b) Accidental & First aid etc.	First aid kit & room provided on site, enclosed photos. No accident or injury is reported during the earlier construction period.	<b>50,000.00</b>	<b>5000</b>	First aid kit for worker's safety on site			
	c) Safety	All loading machines, dumpers & Equipments will be deployed as per safety norms mentioned in	<b>50,000.00</b>	<b>-</b>	All loading machines, dumpers & Equipments will be deployed as per safety norms mentioned in			

Sl. No.	Environmental Factors/ Attributes	Remedial / Augmentation Plan Agreement.	Remedial Cost		Environmental Management Plan Agreement.	EMP Cost		Remarks
			Capital Cost	Recurring		Capital Cost (INR)	Recurring	
			14,66,000/-	3,30,000	--	8,067,450.00	1,268,869.00	
	<b>Total Capital cost for Remedial Plan</b>		Say	14.66 Lacs	<b>Total capital cost for EMP</b>	Say	80.67 Lacs.	
	<b>Total recurring cost for Remedial Plan</b>		Say	3.55 Lacs	<b>Total Recurring Cost for EMP</b>	Say	12.83 Lacs.	
	<b>Total Remediation Cost</b>		<b>18.21 Lakh</b>		<b>Total EMP Cost</b>		<b>93.50 Lakh</b>	

PP has submitted the response of above quarries same date vide letter dated 17.09.2020 revised remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation in the tune of suggested guidelines by the committee, with the supported by documentary proofs, such as bills, CA audit, certificates, photographs, prescribed various undertakings and CER.

Thus, as above, PP has proposed Rs. 111.71 Lakhs (Rs. 18.21 Lakhs as Remediation Cost and Rs. 93.50 as EMP) for this project and PP, Signature Builder & Colonizers, A-101, Orchard Point, Place Orchard, Kolar Road Bhopal (MP)-462042 has proposed to submit bank guarantee of INR Rs. 18,21,000Lakhs towards Remediation Plan.

Committee after considering the reply recommends that PP may be asked to deposit the bank guarantee (BG) with three years validity of Rs.18.21 Lakhs (equivalent to amount proposed in Remediation Plan /Restoration Plan) with the MP Pollution control Board after approval of the SEIAA as per the procedure laid down in the MoEF&CC Notification dated 08/03/2018.

The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of Environment Clearance for approval of Group Housing Project "Signature Residency" Total plot area 24600 sq.mtr. (Built up area 33587.896 sq.mtr. (including FAR+Non FAR area)) at Khasra No. 299/1/1, 298/1/1, 298/2/1, 299/2, 300/2/3(300/2/3/1(ka), 300/2/3/2(ga)), 300/2/2/ka/1,

300/2/2/ga/1, 300/2/ka/2, 300/2/ga/2 at Village Banjari, Tehsil Huzur Kolar Road District Bhopal (MP)\_For - Building Construction Project Category: 8(a), subject to the following special conditions and submission of bank guarantee (BG) with 03 years validity of Rs. 18.21 Lakhs (equivalent to amount proposed in remediation and resource augmentation plan) with the MP Pollution control Board , with following additional conditions:

### **Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

### **II. Air Quality Monitoring and preservation**

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF& CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.



- iv. Diesel power generating sets (1 X 250 KVA) proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking wills all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG set (1 X 250 KVA)) shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible Minimum cutting and filling should be done.

- iii. The total water requirement during operation phase is 272 KLD out of which 189 KLD is fresh water requirement and 225KLD will be the total treated/recycled water generated. 67KLD treated water will be used for flushing and for horticulture.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be to monitor to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fires water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. For rainwater harvesting, 05 recharge pits will be constructed for harvesting rain water. The total recharge capacity of these pits about 528m<sup>3</sup>/hr . Mesh will be provided at the roof so that leaves or any other solid waste/debris will be prevented from entering the pit.
- xiv. All recharge should be limited to shallow aquifer.
- xv. No ground water shall be used during construction phase of the project.

- xvi. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring report.
- xviii. Sewage shall be treated in the STP based on MBBR based technology (Capacity - **300KLD**). The treated effluent from STP shall be recycled/re-used for flushing. AC makes up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xix. The waste water generated from the project shall be treated in STP of 450 KLD capacity (based on MBBR based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
- xx. No sewage or untreated effluent water would be discharged through storm water drains.
- xxi. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**V. Energy Conservation measures.**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured, Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

**VI. Waste Management**

- i. Total waste 1390 Kg/day, this consist all types of wastes , Bio-degradable waste- 764.5 Kg/day, Non- bio-degradable waste- 625.5 horticulture waste nil Kg/day, E- waste about nil Kg/Annum , and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii.
- iii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iv. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- v. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste 1.55 ton/day) shall be segregated into wet garbage and inert materials.
- vi. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- vii. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- viii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks, AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.

- ix. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- x. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- xi. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

**Vii. Green Cover**

- i. Total 570 trees shall be planted in the area of 3564.43 sq. mt. which is developed as greenbelt development.
- ii. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (Planted).
- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iv. 6896sq meters of area shall be provided for green belt development as per the details provided in the project document.
- v. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.
- vi. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

**VIII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic

- b. Traffic calming measures.
  - c. Proper design of entry and exit points
  - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. Total proposed Parking's arrangement for 365 ECS (in which 175 ECS for Silt parking, and 190 for open parking).
- iv. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**IX. Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Corporation Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.

- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly reports.
- iii. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. PP M/s Signature Builder & Colonizers, A-101, Orchard Point, Place Orchard, Kolar Road Bhopal (MP)-462042 has proposed Rs. 111.71 Lakhs (Rs. 18.21 Lakhs as Remediation Cost and Rs. 93.50 as EMP) for this project and PP, Signature Builder & Colonizers, A-101, Orchard Point, Place Orchard, Kolar Road Bhopal (MP)-462042 has proposed to submit bank guarantee of INR Rs. 18,21,000Lakhs towards Remediation Plan.
- vi. The PP M/S Signature Builder & Colonizers, 18 - 19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.) has proposed to submit bank guarantee of INR 18.21 towards Remediation Plan and Natural & Community Resource Augmentation Plan.
- vii. For this project PP has proposed Rs 56.0 Lakh as Corporate Environment Responsibility (CER).

## **XI. Miscellaneous**

- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC)
- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

- v. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

**3. Case No 7401/2020 M/s. Signature Infrastructure Mr. Rajkumar Khilwani, Partner, Chuna Bhatti Square, Bhopal – 462 042 Prior Environment Clearance for proposed Development & Construction of Residential Project “Singnature City” at Khasra No. 163/1/4, 167/3, 168/3, 163/1/3, 165.3, 166, 167/1, 168/1, 167/2, 168/2, 169/1/2, 169/2, 172/2/1, 163/1/2, 163/1/2, 163/2/3, 163/3/3, 163/4/3 at Village Bagli and Kh. No. 326/2 Bharria P.H. No. 25, Tehsil – Huzur, Distt. Bhopal (M.P.) Total Plot Area – 83370 Sq. Mt// (8.237 ha) Net Planning area – 81923.59 Sq. Mt. Bultup area 61544.075 (including FAR + Non FAR Area)**

This is case of Prior Environment Clearance for Construction of Commercial cum Hotel Project "Fortune Azure" (Total Plot Area = 5434.32 sqm, Built-up Area = 30840.67 sqm) at Plot No. 14, 15, 16, Mechanic Nagar Extension, Scheme No. 54, Indore, (MP).Category: 8(a) Building & Construction Project. The project requires prior EC before commencement of any activity at site.

Earlier this case was scheduled for presentation and discussion in 448th SEAC meeting dated 23/07/2020 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 02/08/2020 which was forwarded through SEIAA vide letter no. 2613 dated 05/09/2020, which was placed before the committee.

During presentation PP submits the following salient features regarding project constructed and other area details of this project:

**PROJECT AREA STATEMENT**

S. No.	Details	Area
1.	Total Land Area	(8.237 Ha) or 82370 Sqm
2.	Area Under Road Widening	446.41 Sqm



3.	Net Plot Area	81923.59 Sqm
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**STATEMENT OF PLOTTED AREA**

Details	Area	%
<b>Total Land Area</b>	<b>81923.59</b>	<b>100%</b>
Plotted Area	45879.83	56.00
Open Park Area	8192.36	10.00
Open for Service Area	819.23	1.00
Road Area	23242.30	28.37
Nursery School	813.00	0.99
L.I.G. Plot Area	1557.30	1.90
Informal Sector	1419.57	1.73

**CALCULATION FOR INFORMAL SECTOR**

A) Total Nos. of Proposed Plot – 451 Nos.
B) 15% of 67.65 Say 68 Nos.
@ 60% E.W.S. Dwelling Unit of (B) (Proposed in informal Sector) 41 Nos. – Area – 25.0 Sqm Each
@ 40% L.I.G. Dwelling Unit of 28 Nos. – Area – 55.76 Sqm Each

During presentation PP submits the as the proposed project has already been developed or constructed. About 72% of project is already developed and are already in operational condition for resident. The project area is developed area, which is surrounded by individual residential units, apartments, commercial establishments.

After presentation and deliberation, it was observed by the committee that the remediation's plan and natural community resource augmentation plan submitted by PP needs to be revised.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020 revised remediation plan and natural community resource augmentation plan corresponding to the

ecological damage assessed and economic benefits derived due to violation in the tune of suggested guidelines by the committee, with the supported by documentary proofs, such as bills, CA audit, certificates, photographs, prescribed various undertakings and CER.

**REVISED REMEDIATION & NATURAL AUGMENTATION PLAN**

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
1	Land use as per Approved Master Plan by TNCP, Bhopal	Broken land is as per master plan approved by T&CP (enclosed land use area breakup & Undertaking as Annexure) NO VIOLATION	-	-	Project Capital Cost	24041241.05	--	T & CP Letter No. B.P.L.P.-1678/L.P.90/29(3)/NAGRANI /GKA/2011 DATED 21/09/2015
2	Environmental Sensitive Places, Land Acquisition Status, Resettlement & rehabilitation	Land is in possession of Signature City enclosed land revenue record No R & R Applicable NO VIOLATION	-	-	Land is in possession of M/s Signature infrastructure. All land records are enclosed with our EC Application.	-	-	-
3	Baseline Environmental Quality (2012-17)	All the parameters are in the comfort zone in one season EIA study Monitoring data from 2012-17 is pending @ 30000/ year * 5 Years (2 Air, 2 Noise, 1 water)	--	1,50,000 (Amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA)	-	-	30,000.00	We have done EIA study. All baseline data results are found satisfactory

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
4	A) Land	Total land area <b>82370.00 sqm</b> , & Built Up Area - <b>61544.075 sqm</b> , Excavated material = 98308.308 cum (3 M depth) Top Soil = 32770 cum (1 M depth) Total quantity of topsoil have been used for the development of 8192.36 sq.mt. of landscaping area.	-	-	Land is in possession of Signature infrastructure. All land records are enclosed with our EC Application.	-	-	<b>No Violation</b>
	B) Ground Water	No new ground bore well is done for construction purpose.	--	--	Not applicable, till date no borewell for ground water tapping is proposed.	--	--	<b>NO VIOLATION</b>
	C) Surface water	Not applicable, No Water body exist within the project lease area	--	--	Not applicable	--	--	<b>NO VIOLATION</b>
	D) Air	Water sprinkling had been done as per	--	--	<b>Construction period = 5 years, Working</b>	--	<b>1,84,800.00</b>	<b>As per contract All bills submitting in hard copies to SEAC.</b>

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
		terms & condition of the work order agreements (2 water tankers/day)			Day = 1000 day Per day water requirement = 12 KLD (2 Tanker @ 92/ tanker water cost)			(Attached as Annexure)
	E) Biodiversity	<b>NOT APPLICABLE</b>	--	--	<b>NOT APPLICABLE</b>	---	--	We have not created any change in the biodiversity of the area.
	F) Noise & Vibration	Site is fully barricaded; all modern and new machinery was used on site.)	<b>1,00,000.00</b>	--	All new machinery has been used on site	--	--	Bills submitted in hard copies. (Attached as Annexure)
	G) Socio economy & Health	-	-	-	-	-		Done in EIA study
	G(a). Occupational Health checkup for 30 Workers	Initial Medical Examination (IME) for 30 workers Deployed on site (30X1000X5)	--	<b>150000 (Amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA)</b>	Initial Medical Examination (IME) for 30 workers deployed on Site. (1000 Rs/workers) for a year.	-	<b>30,000.00</b>	Total Calculated value for occupational health and check-up, PPE's have been covered under remedial cost
	G(b). Personal Protection Equipment's	All PPE's distribution to the laborers and staff are under		<b>36000 (Amount may be proposed for additional)</b>	Helmet, Jackets, hand gloves & Boots will be Provide to 30	<b>30,000</b>	<b>5,000.00</b>	

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
		contractor's scope. 30X1200)		Plantation or as per the suggestions of SEAC/ SEIAA)	Workers for remaining 28% construction work.			
	G(c). Shelter and Sanitation for 30 workers	Temporary shelter & Mobile toilet has been provided to the workers	--	--	Provision of Temporary shelter & Mobile toilet will be extended in numbers during the time of construction for 30 workers	<b>79,560.00</b>	-	<b>No Violation</b>
5	Contour Plan With slopes, Drainages pattern of the site and surrounding area any obstruction of the same by the projects.	No conversion is done in storm water drainage pattern on site	-	-	--	-	-	<b>No Violation</b>
6	Tree Felling	--			No tree felling is proposed.			<b>No tree felling is proposed.</b>
7	Tree plantation	Total 250 trees planted & development of landscaping area. (250 trees @Rs.	<b>1,25,000.00</b>	-	All type of landscaping development & maintenance including tree cost	<b>37,85,605.00</b>	<b>75,000.00</b>	<b>All remedial cost will be utilized for left over plantation &amp; further development of additional landscaping.</b>

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
		500+landscaping development )						
8	Permission for forest Land	NOT APPLICABLE	-	-	NOT APPLICABLE	-	-	No forest area is involved in this project.
9	Environment policy	Policy is part of Terms & Condition of mutual Agreement	-	-	-	-	-	Policy is part of Terms & Condition of mutual Agreement
10	Ground Water Classification	At construction phase no ground water has been used.	-	-	At construction phase no ground water has been used,	--	--	No violation
11	Source of Water	A – Construction Phase	--	--	--	--	--	During Construction phase we have used Water Tanker supply.
		B – Operational Phase	--	--	--	--	--	Water supply permission vide Provisional Bulk Connection letter no. 107/WWD/ ZONE 19/2015 dated 30/06/2015. (Attached as Annexure)
12	Source of Waste Water Treatment	300 KLD STP installed.	--	--	300 KLD STP (installed) – Rs. 1200000.00 for civil construction (Labor & Material Cost) 1892300.00 for mechanical installations.	18,92,300.00	4,50,000.00	Balance Sheet & Sample Bills are attached as Annexure. Installation in final stage.

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
13	Dual Plumbing	Dual Plumbing for 72% of constructed area has been completed.	--	--	Dual Plumbing for 72% of constructed area has been completed.	<b>14,25,000.00</b>	--	Balance Sheet & Sample Bills are attached as Annexure.
12	Rain Water Harvesting	10 No. Rain water harvesting pit has been constructed for the project.	--	--	Total 10 nos. of pits have been constructed on site for operational phase	<b>2,19,960.00</b>	<b>25,000.00</b>	--
13	Soil Characteristics & Ground Water Table	Total land area <b>82370.00 sq.mt.</b> , & Built Up Area - <b>61544.075 Sq.mt.</b> ,	--	--	8 m depth of rain water harvesting pits have been proposed,	--	--	<b>NO VIOLATION</b>
	Top Soil Conservation	Excavated material = <b>98308.308 cum</b> (3 M depth) Topsoil = 32770 cum (1 M depth) Total quantity of topsoil have been used for the development of 8192.36 sq.mt. of landscaping area.			Quality of top soil & costing of its disposal			
14	Solid Waste Generation Treatment	All the construction waste has been reused	<b>1,00,000.00</b>	--	Solid Waste will be reused in proposed	<b>18,000.00</b>	--	MSW NOC is attached with hard copy reply. Vide letter no. 790/SWA.V./14 dated <b>26/12/2014.</b>

S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
		for the filling of the low-lying project area.			boundary wall & stone pitching to reduce RCC work on site.			(Attached as Annexure)
		Permission for Disposal of Solid waste from BMC obtained from 2014	--	--	Street garbage shall be controlled segregated transferred and disposed-off by Nagar Nigam Bhopal.	--	50,000.00	
15	Energy conservation & Energy Efficiency (LED bulb & Solar System)	Solar light proposed 15 KW	7,50,000.00	--	Provisional of the solar panels for streets lighting & common areas and LED light for commercial unit	--	30,000.00	We have proposed Solar Power of 15 KW.
16	D G Sets	Till date RMC has been used for construction.	-	-	-	--	--	We have not used DG set in our construction phase.
								(RMC bills attached as Annexure)
17	Parking & Roads	Approach road already exists sufficient space for Parking	-	-	Development of Open Parking & Other Services -	16,99,367.00	50,000.00	All adequate parking facilities have been provided as per T&CP norms.
18	Transportation of materials for construction	Till date 72% construction have been done.	--	50000 (Amount may be proposed for	Storage hall/service yard will be for materials	--	--	Some miscellaneous transportation work had not been done in appropriate manner. We are proposing some rounded amount in



S. No.	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmental Management Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
				additional plantation or as per the suggestions of SEAC/ SEIAA)	stacking during further 28% construction.			our remediation cost.
19	Disaster Management Plan	-	-	-	Centralized control room with ERP system	--	--	--
	a) Fire	This is a duplex project; hence fire NOC is not required.	--	--	--	--	--	Adequate Fire tender movement have been provided in the project.
	b) Accidental & First aid etc.	First aid kit & room provided on site, enclosed photos. No accident or injury is reported during the earlier construction period.	50,000.00	5000	First aid kit for worker's safety on site	-	-	-
	c) Safety	All loading machines, dumpers & Equipment will be deployed as per safety norms mentioned in Agreement.	50,000.00	-	All loading machines, dumpers & Equipment will be deployed as per safety norms mentioned in Agreement.	-	-	-

S. No .	Environmental Factors/ Attributes	Remedial Plan/ Augmentation Plan	Remedial Cost		Environmen tal Managemen t Plan	EMP Cost (INR)		Remarks
			Capital	Recurring		Capital	Recurring (Annual)	
Total			11,75,000	3,91,000	--	91,49,792	9,29,800	
Total Capital cost for Remedial Plan			Say	11.75 Lakh	Total Capital Cost for EMP	Say	91.49 Lakh	
Total recurring cost for Remedial Plan			Say	3.91 Lakh	Total Recurring Cost for EMP	Say	9.29 Lakh	
Total Remediation Cost			15.66 Lakhs		Total EMP Cost		100.78 Lakhs	

Thus, as above, PP M/s. Signature Infrastructure Mr. Rajkumar Khilwani, Partner, Chuna Bhatti Square, Bhopal – 462 042 has proposed Rs. 116.44 Lakhs (Rs. 15.66 Lakhs as Remediation Cost and Rs. 100.78 Lakhs as EMP) for this project and PP, M/S Signature Builder & Colonizers, 18 - 19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.) has proposed to submit bank guarantee of INR Rs. 15.66 Lakhs towards Remediation Plan.

Committee after considering the reply recommends that PP may be asked to deposit the bank guarantee (BG) with three years validity of Rs. 15.66 Lakhs (equivalent to amount proposed in Remediation Plan /Restoration Plan) with the MP Pollution control Board after approval of the SEIAA as per the procedure laid down in the MoEF&CC Notification dated 08/03/2018.

The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of Environment Clearance for proposed Development & Construction of Residential Project “Singnature City” at Khasra No. 163/1/4, 167/3, 168/3, 163/1/3, 165.3, 166, 167/1, 168/1, 167/2, 168/2, 169/1/2, 169/2, 172/2/1, 163/1/2, 163/1/2, 163/2/3, 163/3/3, 163/4/3 at Village Bagli and Kh. No. 326/2 Bharria P.H. No. 25, Tehsil – Huzur, Distt. Bhopal (M.P.) Total Plot Area – 83370 Sq. Mt// (8.237 ha) Net Planning area – 81923.59 Sq. Mt. Bultup area 61544.075 (including FAR + Non FAR Area) For - Building Construction Project Category: 8(a), subject to the following special conditions and submission of bank guarantee (BG) with 03 years validity of Rs. 15.66 Lakhs (equivalent to amount proposed in remediation and resource augmentation plan) with the MP Pollution control Board, with following additional conditions:

### **Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

### **II. Air Quality Monitoring and preservation**

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF& CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets (1 X 75 KVA) proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG set (1 X 75 KVA)) shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible Minimum cutting and filling should be done.
- iii. The total water requirement during operation phase is 406 KLD out of which 229 KLD is fresh water requirement and 299KLD will be the total treated/recycled water generated. 176KLD treated water will be used for flushing and for horticulture.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be to monitor to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring reports.

- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fires water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. For rainwater harvesting, 10 recharge pits will be constructed for harvesting rain water. The total recharge capacity of these pits about 52669.10 m<sup>3</sup>/hr . Mesh will be provided at the roof so that leaves or any other solid waste/debris will be prevented from entering the pit.
- xiv. All recharge should be limited to shallow aquifer.
- xv. No ground water shall be used during construction phase of the project.
- xvi. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The

recorded shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring report.

- xviii. Sewage shall be treated in the STP based on SBR based technology (Capacity - 300KLD). The treated effluent from STP shall be recycled/re-used for flushing. AC makes up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xix. The waste water generated from the project shall be treated in STP of 300 KLD capacity (based on SBR based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
- xx. No sewage or untreated effluent water would be discharged through storm water drains.
- xxi. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

#### **V. Energy Conservation measures.**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured, Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be

incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

- iv. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

## **VI. Waste Management**

- i. Total waste 1049 Kg/day, this consist all types of wastes , Biodegradable waste- 577.0Kg/day , Non-Biodegradable 472.0Kg/day, horticulture waste nil Kg/day, E- waste nil , and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iv. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste 1.55 ton/day) shall be segregated into wet garbage and inert materials.
- v. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks, AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

**Vii. Green Cover**

- i. Total 250 trees shall be planted in the area of 8192.36 sq. mt. (10.0 % of net plot area) which is developed as greenbelt development.
- ii. Not tree can be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (Planted).
- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should included plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iv. 6896sq meters of area shall be shall be provided for green belt development as per the details provided in the project document.
- v. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stack plied appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.
- vi. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

**VIII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
  - e. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic
  - f. Traffic calming measures.
  - g. Proper design of entry and exit points
  - h. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.



- iii. Total proposed Parking's arrangement for 676 ECS for plot area % 68 ECS (Silt & open ) for LIG &EWS units.
- iv. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**IX. Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Corporation Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly reports.

- iii. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. PP M/s. Signature Infrastructure Mr. Rajkumar Khilwani, Partner, Chuna Bhatti Square, Bhopal – 462 042 has proposed Rs. 116.44 Lakhs (Rs. 15.66 Lakhs as Remediation Cost and Rs. 100.78 Lakhs as EMP) for this project and PP, M/S Signature Builder & Colonizers, 18 - 19, Kolar Castle, Chuna Bhatti Square, Dist. Bhopal, (M.P.) has proposed to submit bank guarantee of INR Rs. 15.66 Lakhs towards Remediation Plan.
- vi. The PP M/s. Signature Infrastructure Mr. Rajkumar Khilwani, Partner, Chuna Bhatti Square, Bhopal – 462 042 has proposed to submit bank guarantee of INR 15.66 Lakhs towards Remediation Plan and Natural & Community Resource Augmentation Plan.
- vii. For this project PP has proposed Rs 4.80 Lakh as Corporate Environment Responsibility (CER).

## **XI. Miscellaneous**

- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC)
- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- v. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

4. **Case No 6872/2020 M/s Ujjwala Housing & Finance Pvt. Ltd, Shri Sunderlal Maran, Director, Aamra Vihar Colony, Near Aamra Vihar Bus Stop, Nayapura, Kolar Road, Dist. Bhopal, MP – 462042 Prior Environment Clearance for Construction of "AAMRA VALLEY" (Total Plot Area = 18,000.00 sqm, Total Built-up Area = 36,377.03 sqm) at Village - Sankhedi, Tehsil - Huzur, Dist. Bhopal, (MP).**

This is case of Prior Environment Clearance for Construction of "AAMRA VALLEY" (Total Plot Area = 18,000.00 sqm, Total Built-up Area = 36,377.03 sqm) at Village - Sankhedi, Tehsil - Huzur, Dist. Bhopal, (MP)

Earlier this case was scheduled for presentation and discussion in 434th SEAC meeting dated 20/05/2020 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 04/09/2020 which was forwarded through SEIAA vide letter no. 2651 dated 07/09/2020, which was placed before the committee.

During EIA presentation PP submits the following salient features regarding project constructed and other area details of this project:

#### PROJECT AREA STATEMENT

S. No.	Description	Area (Sqm)
-	Area of Land (1.80 Ha)	18000.00 (A)
1	Area Under 12m Road	332.95
2	Net Area	17667.05 (B)
3	Far (Including 10% LIG)	01:01.3
4	Ground Coverage	30%
5	Open Area	12% Of 'B'
6	Open for Services	1% Of 'B'
Mos.		Maximum Height
Front - 12.00 M.		
All Sides - 6.00m		

#### CALCULATION FOR INFORMAL SECTOR

S. No.	Description	Area (Sqm)
1	Net Planning Area	17667.05sqm
2	Area Reqd. For Informal Sector (15%)	2650.05
3	Built -Up Area Required (2650xo.25)	662.51
4	Ground Coverage	220.84
5	No. of Du's @24 Sqm/Du	27.60 Nos.
	Say	28.00 Nos.

During presentation PP submits the as the proposed project has already been developed or constructed. After presentation and deliberation, PP was asked to submit an affidavit regarding exact distance from HFL of Kaliasit River. It was also observed by the committee that the remediation's plan and natural community resource augmentation plan submitted by PP needs to be revised.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020 revised remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation in the tune of suggested guidelines by the committee, with the supported by documentary proofs, such as bills, CA audit, certificates, photographs, prescribed various undertakings and CER.

**REVISED REMEDIATION & NATURAL AUGMENTATION PLAN**

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
1.	Land use as per Approved Master Plan by TNCP, Bhopal	Broken land is as per master plan approved by T&CP (enclosed land use area breakup & Undertaking as Annexure) <b>NO VIOLATION</b>	-	-	Project Capital Cost as per first audited balance sheet.	5,68,23,197 .63	--	T & CP Letter No. 1302/LP.087/29/Nagrani/GK A/2011 Bhopal dated 07/09/2011 (attached as Annexure)
2	Environmental Sensitive Places, Land Acquisition Status, Resettlement & rehabilitation	Land is in possession of Aamra Valley enclosed land revenue record No R & R Applicable <b>NO VIOLATION</b>	-	-	Land is in possession of M/s Ujjawala Housing & Finance Pvt. Ltd. All land records is enclosed with our EC Application.	-	-	
3	Baseline Environmental Quality (2013-17)	All the parameters are in the comfort zone in one season EIA study <b>Monitoring data from 2013-17 is pending @ 30000/ year * 4 Years (2 Air, 2 Noise, 1 water)</b>	--	<b>1,20,000.00 (amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA )</b>	-	-	<b>30,000.00</b>	<b>We have done EIA study. All baseline data results are found satisfactory</b>
4	A)Land	Total land area	-	-	Land is in possession	-	-	<b>No Violation</b>

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
		<b>18000.00 sq.mt.,&amp; Built Up Area - 36377.03 Sq.mt.,</b> Excavated material = <b>54000.00 Cu.m.</b> (1 M depth) Top Soil = <b>27000.00 Cu.m.</b> (0.5 M depth) Total quantity of topsoil have been used for the development of <b>2120.00 sq.mt.</b> of landscaping area.			of Ujjawala Housing & Finance Pvt. Ltd. All land records is enclosed with our EC Application.			
	B) Ground Water	No new ground bore well is done for construction purpose.	--	--	Not applicable, till date no bore well for ground water tapping is proposed.	--	--	<b>NO VIOLATION</b>
	C) Surface water	Not applicable, No Water body exist within the project lease area	--	--	Not applicable	--	--	<b>NO VIOLATION</b>
	D) Air	Water sprinkling had been done as per terms &	--	--	<b>Constructio n period = 4 years, Working Day = 800</b>	--	<b>5,04,070.00</b>	<b>As per contract All bills submitting in hard copies to SEAC. (attached as Annexure )</b>

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
		condition of the work order agreements (3 water tankers/day )			day Per day water requireme nt = 9 KLD (3 Tanker @ 210/ tanker water cost )			
	E) Biodiversity	<b>NOT APPLICABLE</b>	--	--	<b>NOT APPLICABLE</b>	---	--	We have not created any change in the biodiversity of the area.
	f) Noise & Vibration	Site is fully barricaded, all modern and new machinery was used on site.)	<b>1,00,000.00</b>	--	All new machinery have been used on site	--	--	Bills submitted in hard copies. (attached as Annexure)
	g) Socio economy & Health	-	-	-	-	-		Done in EIA study
	g. a. Occupational Health checkup for 25 Workers	Initial Medical Examination (IME) for 25 workers Deployed on site.25X1000 X4)	--	<b>1,00,000.00 ( amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA )</b>	Initial Medical Examination (IME) for 25 workers deployed on Site. (1000 Rs/workers ) for a year.	-	<b>25,000.00</b>	Total Calculated value for occupational health and checkup, PPE's have been covered under remedial cost

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
	g.b. Personal Protection Equipment's	All PPE's distribution to the laborers and staff are under contractor's scope. 25X1200)		<b>30,000.00</b> ( amount may be proposed for additional plantation or as per the suggestions of SEAC/ SEIAA )	Helmet, Jackets, hand gloves & Boots will be Provide to 25 Workers for remaining 40% constructio n work.	<b>30,000</b>	<b>5,000.00</b>	
	g. c. Shelter and Sanitation for 25 workers	Temporary shelter & Mobile toilet has been provided to the workers	--	--	Provision of Temporary shelter & Mobile toilet will be extended in numbers during the time of constructio n for 25 workers	<b>6,30,100.00</b>	-	<b>No Violation</b>
5	Contour Plan With slopes, Drainages pattern of the site and surrounding area any obstruction of the same by the projects.	No conversion is done in storm water drainage pattern on site	-	-	--	-	-	<b>No Violation</b>
6	Tree Felling	--			No tree felling is proposed.			<b>No tree felling is proposed.</b>
57	Tree plantation	Total 185 trees planted & development of	<b>92,500.00</b>	-	All type of landscaping developme nt& maintenanc	<b>22,29,618.00</b>	<b>50,000.00</b>	<b>All remedial cost will be utilized for left over plantation &amp; further development of additional landscaping.</b>



S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
		landscaping area (185 trees @Rs. 500+landscaping development )			e including tree cost			
8	Permission for forest Land	NOT APPLICABLE	-	-	NOT APPLICABLE	-	-	No forest area is involved in this project.
9	Environment policy	Policy is part of Terms & Condition of mutual Agreement	-	-	-	-	-	Policy is part of Terms & Condition of mutual Agreement
10	Ground Water Classification	At construction phase no ground water has been used.	-	-	At constructio n phase no ground water has been used.	--	--	No violation
11	Source of Water	A – Construction Phase	--	--	--	--	--	During Construction phase we have used Water Tanker supply.
		B – Operational Phase	--	--	--	--	--	Water supply permission vide Provisional Bulk Connection letter no. 3765/Mu.A./Ja.Ka.Vi./Na.Ni ./2016 dated 03/10/2016. (attached as Annexure)
12	Source of Waste Water Treatment	250 KLD STP installed.	--	--	250 KLD STP (installed) – Rs. 1000000.00 for civil construction (Labor & Material Cost) 15,82,000.0 0 for mechanical installation	25,82,000.0 0	4,50,000. 00	Balance Sheet & Sample Bills are attached as Annexure. Installation in final stage.

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
					s.			
13	Dual Plumbing	Dual Plumbing for 60% of constructed area has been completed.	--	--	Dual Plumbing for 60% of constructed area has been completed.	35,94,550.00	25,000.00	Balance Sheet & Sample Bills are attached as Annexure.
12	Rain Water Harvesting	3 No. Rain water harvesting pit has been constructed for the project.	1,00,000.00	--	Total 3 nos. of pits have been constructed on site for operational phase	2,39,297.00	20,000.00	--
13	Soil Characteristics & Ground Water Table Top Soil Conservation	Total land area Total land area <b>18000.00 sq.mt.</b> ,& Built Up Area - <b>36377.03 Sq.mt.</b> , Excavated material = <b>54000.00 Cu.m.</b> (1 M depth) Top Soil = <b>27000.00 Cu.m.</b> (0.5 M depth) Total quantity of topsoil have	--	--	8 m depth of rain water harvesting pits have been proposed, Quality of top soil & costing of its disposal	--	--	NO VIOLATION

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
		been used for the development of <b>2120.00</b> sq.mt. of landscaping area.						
14	Solid Waste Generation Treatment	All the construction waste have been reused for the filling of the low lying project area.	--	--	Solid Waste will be reused in proposed boundary wall & stone pitching to reduce RCC work on site	<b>10,47,127.00</b>	--	<b>MSW NOC is attached with hard copy reply. Vide letter no. 122/SWA.V./15 dated 10/12/2015 (attached as Annexure)</b>
		Permission for Disposal of Solid waste from BMC obtained from 2015	--	--	Street garbage shall be controlled segregated transferred, and disposed of by Nagar Nigam Bhopal.	--	<b>50,000.00</b>	
15	Energy conservation & Energy Efficiency (LED bulb & Solar System)	Solar light proposed <b>5 KW</b>	<b>3,00,000.00</b>	--	Provisional of the solar panels for streets lighting & common areas and LED light for commercial unit	--	<b>20,000.00</b>	<b>We have proposed Solar Power of 5 KW.</b>

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
16	D G Sets	Till date RMC has been used for construction.	-	-	RMC used in project.	<b>38,66,337.00</b>	--	<b>We have not used DG set in our construction phase. (RMC bills attached as Annexure )</b>
17	Parking & Roads	Approach road already exists sufficient space for Parking	-	-	Developme nt of Road & Open Parking & Other Services.	<b>35,44,514.00</b>	<b>15,000.00</b>	<b>All adequate parking facilities have been provided as per T&amp;CP norms.</b>
18	Transportation of materials for construction	Till date 60% construction have been done.	--	<b>50,000.00 ( amount may be proposed for additional plantatio n or as per the suggestio ns of SEAC/SEI AA )</b>	<b>Storage hall/service yard will be for materials stacking during further 40% constructio n.</b>	--	--	<b>Some miscellaneous transportation work had not been done in appropriate manner. We are proposing some rounded amount in our remediation cost.</b>
19	Disaster Management Plan	-	-	-	Centralized control room with ERP system	--	--	--
	a) Fire	Machines were equipped with their fire extinguishing equipments. Till date on 60% construction have been done	--	--	Fire fighting organizing and arrangeme nt: External fire hydrant system, hose pipes, pumps with control panel, overhead tanks, first aid, fire	<b>6,87,200.00</b>	--	<b>All fire &amp; safety facilities have been provided for the 60% constructed area.</b>

S. N o.	Environmental Factors/ Attributes	Remedial Plan/ Augmentati on Plan	Remedial Cost		Environme ntal Manageme nt Plan	EMP Cost		Remarks
			Capital Cost	Recurrin g Cost		Capital Cost (INR)	Recurring Cost (per annum)	
					extinguishe rs, sand buckets, Manual and automatic fire alarm, main security room etc.			
	b) Accidenta l & First aid etc.	First aid kit & room provided on site, enclosed photos No accident or injury is reported during the earlier construction period.	50,000.00	--	First aid kit for worker's safety on site	--	--	--
	c) Safety	All loading machines, dumpers & Equipment s will be deployed as per safety norms mentioned in Agreement.	50,000.00	-	All loading machines, dumpers & Equipmen ts will be deployed as per safety norms mentioned in Agreement.			
<b>TOTAL</b>			<b>6,92,500 /-</b>	<b>3,00,000</b>	--	<b>1,84,50,743 .00</b>	<b>11,94,070 .00</b>	
	Total Capital cost for Remedial Plan		<b>Say</b>	<b>6.92 Lakh</b>	Total capital cost for EMP	<b>Say</b>	<b>184.50 Lakh</b>	
	Total recurring cost for Remedial Plan		<b>Say</b>	<b>3.00 Lakh</b>	Total Recurring Cost for EMP	<b>Say</b>	<b>11.94 Lakh</b>	
	Total Remediation Cost		<b>9.92 Lakhs</b>		Total EMP Cost		<b>196.4 Lakh</b>	

PP has submitted the response of above quarries same date vide letter dated 17.09.2020 revised remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation in the tune of suggested guidelines by the committee, with the supported by documentary proofs, such as bills, CA audit, certificates, photographs, prescribed various undertakings and CER.

Thus, as above, PP M/s Ujjwala Housing & Finance Pvt. Ltd, Shri Sunderlal Maran, Director, Aamra Vihar Colony, Near Aamra Vihar Bus Stop, Nayapura, Kolar Road, Dist. Bhopal, MP – 462042 has proposed Rs. 204.32 Lakhs (Rs. 9.92 Lakhs as Remediation Cost and Rs. 196.4 Lakhs as EMP) for this project and PP M/s Ujjwala Housing & Finance Pvt. Ltd, Shri Sunderlal Maran, Director, Aamra Vihar Colony, Near Aamra Vihar Bus Stop, Nayapura, Kolar Road, Dist. Bhopal, MP – 462042 has proposed to submit bank guarantee of INR Rs. 9.92 Lakhs Lakhs towards Remediation Plan.

Committee after considering the reply recommends that PP may be asked to deposit the bank guarantee (BG) with three years validity of Rs. 9.92 Lakhs Lakhs (equivalent to amount proposed in Remediation Plan /Restoration Plan) with the MP Pollution control Board after approval of the SEIAA as per the procedure laid down in the MoEF&CC Notification dated 08/03/2018.

The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of Environment Clearance for Construction of "AAMRA VALLEY" (Total Plot Area = 18,000.00 sqm, Total Built-up Area = 36,377.03 sqm) at Village - Sankhedi, Tehsil - Huzur, Dist. Bhopal, (MP). For - Building Construction Project Category: 8(a), subject to the following special conditions and submission of bank guarantee (BG) with 03 years validity of Rs. 9.92 Lakhs (equivalent to amount proposed in remediation and resource augmentation plan) with the MP Pollution control Board , with following additional conditions:

### **Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.

- iii. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.

## **II. Air Quality Monitoring and preservation**

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF& CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets (3 X 200 KVA) proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking wills all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.

- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG set (3 X 200 KVA) shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible Minimum cutting and filling should be done.
- iii. The total water requirement during operation phase is 406 KLD out of which 289 KLD is fresh water requirement and 151 KLD will be the total treated/recycled water generated. 79.0KLD treated water will be used for flushing and for horticulture.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be to monitor to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.



- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fire water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. For rainwater harvesting, 03 recharge pits will be constructed for harvesting rain water. The total recharge capacity of these pits about 5813.45 m<sup>3</sup>/hr . Mesh will be provided at the roof so that leaves or any other solid waste/debris will be prevented from entering the pit.
- xiv. All recharge should be limited to shallow aquifer.
- xv. No ground water shall be used during construction phase of the project.
- xvi. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring report.
- xviii. Sewage shall be treated in the STP based on MBBR based technology (Capacity - **250KLD**). The treated effluent from STP shall be recycled/re-used for flushing. AC makes up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xix. The waste water generated from the project shall be treated in STP of **250KLD** capacity (based on MBBR based technology) and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
- xx. No sewage or untreated effluent water would be discharged through storm water drains.

- xxi. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

**IV. Noise monitoring and prevention**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**V. Energy Conservation measures.**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured, Building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

**VI. Waste Management**

- i. Total waste 0.6860 T/day, this consist all types of wastes , Biodegradable waste- 0.3773T/day, Non-Biodegradable 0.3087 T/day, horticulture waste nil Kg/day, E- waste nil , and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iv. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste 1.55 ton/day) shall be segregated into wet garbage and inert materials.
- v. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks, AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto small be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

**Vii. Green Cover**

- i. Total 340 trees shall be planted in the area of 2120.0 sq. mt. (10.0 % of net plot area) which is developed as greenbelt development.
- ii. Not tree can be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees

- should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (Planted).
- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should included plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
  - iv. 6896sq meters of area shall be shall be provided for green belt development as per the details provided in the project document.
  - v. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stack plied appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.
  - vi. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

## **VIII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points
  - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. Total proposed Parking's arrangement for 240 ECS and additional parking provided of 102 Cars for nearby EWS & shops open area.
- iv. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different

scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**IX. Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Corporation Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly reports.
- iii. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of

implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

- v. PP M/s Ujjwala Housing & Finance Pvt. Ltd, Shri Sunderlal Maran, Director, Aamra Vihar Colony, Near Aamra Vihar Bus Stop, Nayapura, Kolar Road, Dist. Bhopal, MP – 462042 has proposed Rs. 204.32 Lakhs (Rs. 9.92 Lakhs as Remediation Cost and Rs. 196.4 Lakhs as EMP) for this project and PP M/s Ujjwala Housing & Finance Pvt. Ltd, Shri Sunderlal Maran, Director, Aamra Vihar Colony, Near Aamra Vihar Bus Stop, Nayapura, Kolar Road, Dist. Bhopal, MP – 462042 has proposed to submit bank guarantee of INR Rs. 9.92 Lakhs towards Remediation Plan.
- vi. The PP M/s Ujjwala Housing & Finance Pvt. Ltd, Shri Sunderlal Maran, Director, Aamra Vihar Colony, Near Aamra Vihar Bus Stop, Nayapura, Kolar Road, Dist. Bhopal, MP – 462042 has proposed to submit bank guarantee of INR 9.92 Lakhs towards Remediation Plan and Natural & Community Resource Augmentation Plan.
- vii. For this project PP has proposed Rs 11.36 Lakh as Corporate Environment Responsibility (CER).

## **XI. Miscellaneous**

- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC)
- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- v. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

- 5. Case No. - 6538/2019 Shri Amanbir Singh Bains, Executive Director & CEO, Satna Smart City Development Limited, Satna Municipal Corporation Building, Dist. Satna, MP – 485001. Email - satnasmartcityltd@gmail.com, Phone No. - 07672-228818. Prior Environment Clearance for Area Based Development Project “Satna Smart City Development” (Total Plot Area - 628.10 Acres, Total Built up Area (in consideration with FAR) - 13.78 lakhs sq.m, Total Area – 269.6 ha., at Khasra [Uttaily Village No. of Khasra: 359, Sunaura Village No. of Khasara: 769, Sijaihata Village No. of Khasara: 275] Village - Sijaihata, Sunaura, Uttaili, Taluk - Rampur Baghelan, Dist. Satna (M.P.). Project Cost- 117100 lacs, Cat. - 8(b) Township and Area Development Project . Env. Con. – Tata Consulting Engineers Ltd.(Mumbai).**

Earlier this case was scheduled for presentation and discussion in 402<sup>nd</sup> SEAC meeting dated 05-11-19 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 04/09/2020 which was forwarded through SEIAA vide letter no. 2489 dated 04/09/2020, which was placed before the committee.

The EIA was presented by the PP and their consultant in the and during presentation following details was provided:

Sl. No.	Information Required	Details					
1	Area Details Total Area Built-up etc.	TOTAL PLOT AREA: 628.12 ACRES					
		TOTAL PLOT AREA – 628.1 ACRES, TOTAL BUILT UP AREA (IN CONSIDERATION WITH FAR) - 13.78 LAKHS SQ.M)					
		Area Breakup					
		S. No.	Village	Total Area	Land (Acres)		No. of Affected Persons
					Govt.	Pvt.	
		1.	Utaily	81.56	26.94	54.62	328
		2.	Sonoera	327.77	160.51	167.27	182
		3.	Sijahata	218.76	144.33	74.43	495
			Total	628.10	331.78	296.32	1005
Total Land Inside ABD Area= 81.56+327.77+218.76= 628.10 acres							

Sl. No.	Information Required	Details								
2	Diesel Power Generating Capacity (Power Backup)	Sr. No.	Location of DG Set	Numbers	Power		Daily average operation time	Daily average emission (g/sec)		
					kVa	kW	hours	NOx+	CO	PM
		1	BACC	1	250	200	1	0.009	0.008	0.0005
		2	BACC	1	250	200	1	0.009	0.008	0.0005
		3	Lake	1	420	336	1	0.016	0.014	0.0008
		4	CCC	1	25	20	1	0.001	0.001	0.0001
		5	STP	1	250	200	1	0.009	0.008	0.0005
		6	WTP	1	250	200	1	0.009	0.008	0.0005
3	Water Requirement	Total Demand for ultimate year								
		Total water requirement					11.76 MLD			
		Potable water					6.37 MLD			
		Non-potable water					5.38 MLD			
		Sewage generation					4.3 MLD			
4	Rainwater Harvesting Details	Most basic data required contains Survey data for site and adjoining nalah. Hydro geological condition, availability of rainfall, ground water table throughout the year, area available to collect storm water and storm water drainage system were considered for making proper design of artificial recharge structures. The following system will be proposed for recharging the runoff: <div>a) Storm Water Collection/percolation tank/Pond</div> <div>b) a) Storm water conveyance drainage is thoroughly considered while selecting suitable location and design to recharge structures within the township area.</div> <div>c) Proper In-let and Out-let should be developed in the recharging structure / tank to allow the storm water enters into the system and get out of it as overflow.</div> <div>d) The Recharge bore hole should be constructed up to a depth of 20m below ground level or depend up on the water level of the area it may be increased to maintain the slotted pipes within the water level to avoid any air infiltration into the aquifer.</div> <div>e) The storm water drainage system should be constructed in such a manner to avoid the entrance of sewage water into it. (Separate</div>								



Sl. No.	Information Required	Details
		<p>system to carry sewage and rainwater pipes can help this)</p> <p>f) Periodic cleaning of the SW drainage system required to sustain the system. (Cleaning the drainage system manually)</p> <p>g) Water quality test for ground water before and after construction (post monsoon) should be carried out to find out the impact of recharge on quality of ground water. To identify the impact of recharge on ground water regime it is essential to check the quality of ground water before and after construction of the structures. This is a universal standard operating technique</p> <p>h) Catch basin With Infiltration Pit: the area having impermeable zones prior to water table, like clays, solid rocks etc. and having relatively clean catchment.</p> <ul style="list-style-type: none"> <li>• The development of 628.1 acres of ABD area will turn into integrated urban place which results into an inevitable rise in site impermeability. Storm events will result in increased overland runoff for the same catchment area and lag time to peak flooding will significantly decrease. The natural annual recharge to existing aquifers on site will also reduce substantially.</li> <li>• Rainwater harvesting is a technology used to collect, convey and store rainwater for later use from relatively clean surfaces such as a roof, land surface or rock catchment.</li> <li>• As per our proposal ground water recharge has been considered drains only with provision of natural recharge (depression at certain interval along the length of proposed SWD).</li> </ul>
5	STP Details	STP Capacity - 4.34 MLD

Sl. No.	Information Required	Details			
6	Solid Waste Generation (kg/d)	The quantity of municipal solid waste generated from the city is estimated as per guidelines given by CPHEEO Manual on Municipal Solid Waste management, by using the municipal refuse generation rates.			
		<ul style="list-style-type: none"><li>Residential refuse generation rate is considered as 0.5 kg per capita per day</li><li>Refuse generation rate for floating population is considered as 0.2 kg per capita per day</li><li>Street sweepings is considered to be 0.05 kg per capita per day</li></ul>			
		The total fixed and floating population is 50920 and 14147 respectively for the year 2032. Considering the above assumptions, the total solid waste generated in Phase I (2022) is 35.89 TPD and by the end of Phase II (2032) is 53.00 TPD.			
		S. No.	Waste Category	Waste Composition	Total (TPD)
		1	Biodegradable Waste	50%	9.76
		2	Recyclables	20%	3.91
		3	Dry Waste	20%	3.91
		4	Inert	10%	1.95
	Total	19.53			

Sl. No.	Information Required	Details																								
7	Plantation	<div><div><div>✓ 91.28 acres city level green, canal front development that provides recreational opportunities and improves a sense of community. These areas help in creating large public open spaces which can double up as event spaces for the larger community within the ABD area.</div><div>✓ Greens are planned in consideration of the existing green cover and water bodies so as to have minimalistic impact. They play important role in environmental conservation of the native species.</div><div>✓ 114.66 acres of recreational landscapes include sports and Nursery space, development of art and craft centre, wellness and fitness centre, lake development. These areas are active recreational facilities for the ABD area.</div><div>✓ In line with the master plan, several sports and recreation parcels have been allocated in the town centre, and in proximity to the neighborhood centre.</div><div>✓ Water bodies</div><div>✓ Water bodies within the ABD area will be developed as recreational places which shall enhance the aesthetic value and encompasses holistic picture of the ABD area.</div></div><div>It is proposed to integrate the trees in the developmental activities to minimize the tree felling required. Following are the proposed activities which will be developed to save the old trees.</div><div><ul style="list-style-type: none"><li>• Sitting areas under shady Trees</li><li>• Place making area developed around Large or old trees</li><li>• Interactive spaces around tree clusters</li><li>• Tree house in forest area</li></ul></div><div>Also, it is proposed to plant new 1500 trees in landscape development areas which will enhance the local biodiversity and help flourish the fauna.</div><table><tr><th>S. No.</th><th>Type Tree</th><th>Total Tree</th><th>Felling Tree</th></tr><tr><td>1</td><td>Azadirchta indica</td><td>100</td><td>81</td></tr><tr><td>2</td><td>Mangifera indica</td><td>14</td><td>6</td></tr><tr><td>3</td><td>Ficus benghalensis</td><td>7</td><td>6</td></tr><tr><td>4</td><td>Other Trees</td><td>773</td><td>481</td></tr><tr><td></td><td>Total</td><td>894</td><td>574</td></tr></table></div>	S. No.	Type Tree	Total Tree	Felling Tree	1	Azadirchta indica	100	81	2	Mangifera indica	14	6	3	Ficus benghalensis	7	6	4	Other Trees	773	481		Total	894	574
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8	Parking	The system is derived from the idea of IoT The system uses the WSN (Wireless Sensor Network) consisting of RFID technology to monitor car																								

Sl. No.	Information Required	Details
		<p>parks.</p> <p><b>Elements of Smart Parking</b></p> <p><b>Cloud-Based Server:</b> This is a Web entity that stores the resource information provided by local units located at each car park. The system allows a driver to search and find information on parking spaces from each car park without the need to directly access the local server node by directly accessing the cloud-based server.</p> <p><b>Local Unit:</b> This unit is in each car park and stores the information of each parking space, as shown in Figure. The local unit includes the following:</p> <p><b>Control Unit:</b> This is an Arduino module, which is connected using an RFID reader. The card reader authenticates the user information and then displays this information on the screen. If the information of the RFID tag or card is correct, the Arduino module will control the opening of the door for the vehicle to enter. The Arduino module connects with the cloud server through an Internet connection to transfer data from the local car park to the cloud server database.</p> <p><b>RFID Tag or ID Card:</b> This is used to check and authenticate user information and calculate the percentage of total free spaces in each car park.</p> <p><b>Screen:</b> This displays information on the capacity of the local car park, the total current percentage of free spaces, the status of the RFID tag check, the user card when entering, and a mini map of the local car park.</p> <p><b>Software Client:</b> This is an application software system. Running on Android operating system, the users will install it on their smart phones.</p> <p>Salient Features/Proposed Solutions Features:</p> <ol style="list-style-type: none"> <li>1) Detect the arrival and departure of vehicles.</li> <li>2) Providing accurate information on available parking space.</li> <li>3) Automatic ticket dispenser.</li> <li>4) Parking Guidance System - Guiding the driver to the free parking space – which saves time and fuel – significant reduction of kilometers driven, and hours needed for finding parking – as a result reduces atmospheric pollution and congestion.</li> <li>5) It also results in reduction of CO<sub>2</sub> emission.</li> </ol>
10	EMP	<p>Environment Management Cell Budget – 15.8 Lakh</p> <p>Environment Monitoring Plan (Construction Phase) – 26.37 Lakh</p>

Sl. No.	Information Required	Details
		Environment Monitoring Plan (Operational Phase) – 11.64 Lakh
11	Project Cost	1171 Cr.

**The salient features of the project:**

Under Smart City Mission Special-purpose Vehicle has been formed as Satna Smart City Development Limited, which will govern under the Madhya Pradesh Nagar Tatha Gram Nivesh Adhiniyam 1973, and M.P. Bhumi Vikash rules 2012.

TCE in Association with ISEC has been appointed as Project Development and Management Consultant for providing consultancy services for preparation of smart city plan for Satna and provide project development and management consultancy support.

Satna Smart City Development Limited will act as Special Area Development Authority to plan, implement and administer Satna Smart City project. For the smart city development, the site is selected for Green-field ABD at Maihar Bypass has been made due to:

- Availability of 331.78 acres of Government land: 52.8% of total ABD area is a Government land along with connectivity through bypass & proximity to city core (6kms from railway station). As per latest decision, area of PMAY 38.1 acres is to be subtracted from the total area. Hence total area to be developed is 628.1 Acres.
- Strategic Location in one of the nodes of the golden triangle of three urban centers namely Satna, Rewa & Maihar. The site is located between existing & proposed Master plan bypass.
- 95% of the ABD is fallow & barren land with agriculture use on only 5% on private owned lands minimizing effect on the livelihood of the affected population.
- The capital investment for the proposed project has been estimated at Rs 1171.41 crore.
- ToR was granted vide reference No. 826/PS-MS/MPPCB/SEAC/TOR(402)/2019, Bhopal dated 12.12.2019.
- The project majorly includes Sijahata and Sonoera and Utaily village. The project site is outside the city near Tamas river and Maihar Bye-pass Landmarks like Air strip, Maihar bye-pass, mark the Northern boundary of the project. Eastern boundary is marked by RTO and Regional Pollution Control Board Office and majorly the vicinity of Tamas river marks the Southern boundary of the project. Towards west is the Delhi Public School, and Food corporation storage platforms inside the project area. Purva Canal is a manmade feature developed under BanSagar project by water resource department

passing through the ABD area. Total length of the canal is 80.91 km and it covers about 347 villages.

- The project area is accessed by two sides, one from Maihar bypass and other from Rewa-Panna Highway via Kripalpur village. The proposed ADB area is about 2 km away from NH-75 Rewa-Panna Highway on Miahra bye-pass, opposite to the Satna Air Strip.

During presentation it was observed that an air strip is in just vicinity in the north side PP submitted that the maximum height of the building is 24 meters and there is no hurdle for aeroplane landing and take off position and here movement of aeroplane is rare. Moreover a Wanganga canal is crossing the project area from north to south PP stated that this canal would not be disturbed. No R&R is proposed from the project site. After presentation, PP was asked to submit following details for further consideration of the project:

1. Commitment for only listed Category of industries under smart city development guideline will exist within the proposed ADB area.
2. Landscape development details including proposal of Arboretum.
3. Details of EMP & CER Budget .
4. Details about Size of Rotary.
5. Details about STP Treated Water Disposal Channel.
6. Proposed land use area of the project.
7. Details of EMP & CER Budget .

PP vide letter dated 17.09.2020 has submitted the revised query reply details which was placed before the committee wherein PP stated that:

- Canal front green space has the function of beautification environment, reducing noise, and creating a good urban ecological space. With the continuous development of city ecological environment, people pay more and more attention to the environment. Because the urban waterfront green space is located on the land margin, and has the characteristics of ecological diversity, therefore, the urban waterfront green space in the design process should be based on the principles of landscape ecology, the main plant for the landscape in the design process and create a natural type of waterfront landscape.
- Lake nectar is envisaged to be developed as recreation project with prominent lake front development along with rejuvenation of lake and integrated water management;

- Synthesis new design proposal will be integrated with existing forest area First phase of the development of synthesis will introduce human with existing nature of the city. To Promote and enhance existing beauty of the nature a walking trail proposed
- Road landscape design at portal space of small towns is an important window to show the image of the towns, as well as an important aspect of the planning and design for portal space of small towns. It cannot be simply interpreted as a decoration of sketches or green cover, but more should meet the dual requirements of material and spirit.
- The selected trees are local species and almost all of the trees have red color peculiarities (blooming, flower, leaves). The mix of different species and density of vegetation create a great linear garden.
- Open spaces within and in close proximity to urban centers increase livability and enhance property values.
- Open spaces are essential for leisure activities, organized sports and cultural endeavors in a building .
- The mental and physical health benefits of parks and green spaces have been demonstrated and can be proven to be actual preventative measures that impact positively on health care and health care costs.

PP submitted following Landuse Area Breakup of the Satna Smart city ABD:

<b>Landuse Area Breakup</b>			
<b>S.No</b>	<b>Description</b>		<b>Percentage</b>
		<b>(Acres)</b>	<b>%</b>
1	<b>Residential</b> (Including sector greens)	135.35	<b>21.55</b>
2	<b>Commercial</b>	41.94	<b>6.68</b>
3	<b>Public Semi Public</b>		
a	<b>PSP- Proposed</b>	87.26	<b>13.89</b>
b	<b>PSP- Exisiting</b>	13.90	<b>2.21</b>
4	<b>Industrial</b>	44.25	<b>7.05</b>

5	<b>Recreational open spaces &amp; Green area</b>	228.23	<b>36.34</b>
a	Sports Facility	17.79	2.83
b	Recreational (Naturopathy etc.)	96.87	15.42
c	City Level Green	56.76	9.04
d	Canal frontdevelopment	34.52	5.50
e	Existing Canal, local Water bodies & Distributaries	22.29	3.55
6	<b>Roads</b>	77.17	<b>11.58</b>
	<b>Total</b>	<b>628.10</b>	<b>100.0</b>

After presentation and submissions made by the PP were found to be satisfactory and acceptable hence the case was recommended for grant of Prior Environment Clearance for Area Based Development Project “Satna Smart City Development” (Total Plot Area – 628.10 Acres, Total Built up Area (in consideration with FAR) - 13.78 lakhs sq.m, Total Area – 269.6 ha., at Khasra [Uttaily Village No. of Khasra: 359, Sunaura Village No. of Khasara: 769, Sijaihata Village No. of Khasara: 275] Village - Sijaihata, Sunaura, Uttaili, Taluk - Rampur Baghelan, Dist. Satna (M.P.). Cat. 8(b) subject to the following special conditions:

### **Statutory Compliance**

- i. The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of building due to earthquakes, adequacy of firefighting equipment etc as per National Building code including protection measures from lightening etc.
- iii. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- iv. The project proponent shall obtain the necessary permission for drawl of ground water/surface water required for the project from the competent authority.
- v. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.



- vi. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- vii. The provisions for the solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
- viii. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power Strictly.
- ix. The project area shall be secure through boundary wall and excavated top soil shall not be used in filling of low lying area. The top soil shall be used for greenery development.

## **II. Air Quality Monitoring and preservation**

- i. Notification GSR 94(E) dated: 25/1/2018 MoEF & CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for project requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released covering upwind and downwind directions during the construction period.
- iv. 6 Diesel power generating sets (2 Nos. of 250 kVA DG Set (Location-BACC), 1 Nos. of 420 kVA DG Set (Location-Lake Nectar), 1 Nos. of 25 kVA DG Set (Location-CCC Building), 2 Nos. of 200 kVA DG Set (Location-STP & WTP) proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, Murram and other construction materials prone to causing dust polluting at the site as well as taking out debris from the site.
- vi. Sand, Murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (are not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and

construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.

- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emission from DG sets shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible Minimum cutting and filling should be done.
- iii. The total water requirement during operation phase is Total Water Requirement- 11.76 MLD, Potable Water- 6.37 MLD, Non-Potable Water- 5.38 MLD, Sewage Generation- 4.3 MLD.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for separately for ground water and surface water sources, ensuring that there is no impact on other users.
- vi. At least 20% of the open spaces as required by the local building bye-laws shall be previous. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/fixtures (Viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.

- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law construction on rain water harvesting should be followed. If local by-law provision is not available, adequate provisions for storage and recharge should be followed as per the Ministry of Urban Development Model Building bylaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meter of built up area and storage capacity of minimum one day of total fire water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. The RWH will be done separately from each project in the proposed smart city.
- xiv. All recharge should be limited to shallow aquifer.
- xv. No ground water shall be used during construction phase of the project.
- xvi. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvii. The quality of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The recorded shall be submitted to the Regional Office, MoEF & CC along with six monthly Monitoring report.
- xviii. Sewage shall be treated in the MBBR based STP (Capacity–4.34 MLD). The treated effluent from STP shall be recycled/re-used for flushing.
- xix. The waste water generated from the project shall be treated in STP of 4.34 capacity and then reused for various purposes. No water body or drainage channels are getting affected in the study area because of this project.
- xx. No sewage or untreated effluent water would be discharged through storm water drains.
- xxi. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problems from STP.
- xxii. Sludge from the onsite sewage treatment including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Control Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

**IV. Noise monitoring and prevention**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitoring during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- iii. Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**V. Energy Conservation measures.**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured, building in the State which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy Conservation measures like installation of CFLs/LED's for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other renewable energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level /local building bye-law's requirement, which is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

**VI. Waste Management**

- i. Total waste 19.53TPD, this consist all types of wastes (Biodegradable Waste- 9.76 TPD, Recyclable Waste- 3.91 TPD, Dry Waste- 3.91 TPD, Inert Waste- 1.96 TPD) and these all type of waste shall be treated/ disposed off as per provision made in the MSW Rules 2016.
- ii. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project shall be obtained.
- iii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- iv. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste (0.4 ton/day) shall be segregated into wet garbage and inert materials.
- v. All non-biodegradable waste shall be handed over the authorized recyclers for which a written lie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction materials quantity. These include fly ash brick, hollow bricks, AACs, Fly Ash Lime Gypsum block, compressed earth blocks and other environmental friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016 Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the construction and Demolition Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

**VII. Green Cover**

- i. Total 1500 trees shall be planted too developed landscape & greenbelt development in area.
- ii. Not tree can be felled/transplant unless exigencies demand. Where absolute necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (Planted).

- iii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iv. Where the trees need to be cut with prior permission from the concerned local Authority, Compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- v. Topsoil should be stripped to depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stock piled appropriately in designated areas and reapplied during plantation of the proposed vegetations on site.

## **VIII Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public and private network. Road should be designed with due consideration for environment and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points
  - d. Parking norms as per local regulation
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. Off street smart parking facilities have been planned within the city keeping the criteria of land use activities such as residential, commercial, and corporate entities. Provision of parking at vendor/hawkers' zones shall reduce the congestion and maintenance of hygiene in public spaces and streets
- iv. A detailed traffic management and traffic decongesting plan shall be drawn up to ensure that the current level of service of the road within a 05 Kms radius of the project as maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of the development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management and the PWD/competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**IX. Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implementation.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile, STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Corporation Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated: 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The Environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the Environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six monthly reports.
- iii. A separate Environmental Cell both at the project and company head quarter with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. For Environment Management Plan PP has proposed Rs. 9870.00 Lakhs as capital and Rs. 102.00 Lakhs as recurring cost for this project.

- vi. For this project PP has proposed Rs 1052.00 Lakhs as Corporate Environment Responsibility (CER) for remaining project component.

**XI. Miscellaneous**

- i. The project authorities must strictly adhere to the stipulation made by the MP Pollution Control Board and the State Government.
- ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the State Expert Appraisal Committee (SEAC)
- iii. No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- iv. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- v. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.

**6. Case No. - 7523/2020 Shri Abhishek Jain, General Manager, M/s S.V. Infra Developers, First Floor, E-5/16, Commercial, Arera Colony, Bhopal (M.P.) 462038. Prior Environment Clearance for "Premier Orchard " Project Total Plot Area - 85660 sqm., Total Built-up Area – 74704.89 sqm at Khasra No. 6/1, 6/2, Village - Raslakheri, Tehsil - Huzur & Dist. - Bhopal (M.P.) Env Consultant : In Situ Enviro Care, Bhopal (M.P.).**

This is case of Environment Clearance for "Premier Orchard " Project Total Plot Area - 85660 sqm., Total Built-up Area – 74704.89 sqm at Khasra No. 6/1, 6/2, Village - Raslakheri, Tehsil - Huzur & Dist. - Bhopal (M.P.).

PP has submitted ToR (Violation) forwarded through SEIAA vide letter no. 2530 dated 03/09/2020, which was placed before the committee.

This case was presented by the PP and their consultant and during presentation during discussion and perusals of the documents it was observed by the committee that the It's a case of Violation, wherein PP / consultant submitted that about 60% construction took place and they have applied under the window period provided by MoEF &CC Notification dated



09/Sep/2019, . They have also collected the baseline monitoring data in between December 2019 to February 2020.

The chronology of the project is as given below:

Earlier Application to MOEF	11-09-2017
EDS Reply of Previous EC Application	24-04-2018
EDS Reply of Query Raised by SEIAA	24-08-2020
Application Submission to SEIAA	02-09-2020

Committee considering the recent GoI, MoEF & CC Notification dated 8<sup>th</sup> March, 2018 recommends that case may be dealt as per the provisions laid down in this notification and the project may granted Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as a independent chapter in the EIA report by the accredited consultant and the collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory accredited by the National Accreditation Board for Testing and Calibration Laboratories.

Hence committee recommended to issue additional TOR as per notification dated 08<sup>th</sup> March 2018 along with standard TOR prescribed by the MoEF&CC for conducting the EIA as follows:-

1. Justify how application was submitted during violation window period.
2. About 60% construction took place, details of unit completed.
3. Project description, its importance and the benefits.
4. Project site detail (location, toposheet of the study area of 10 Km, coordinates, google map, layout map, land use, geological features and geo-hydrological status of the study area, drainage.
5. Land use as per the approved Master Plan of the area, permission/approvals required from the land owning agencies, Development Authorities, Local Body, Water Supply & Sewerage Board etc.
6. Land acquisition status, R & R details.

7. Forest and Wildlife and eco-sensitive zones, if any in the study area of 10 Km Clearances required under the Forest (Conservation) Act, 1980, the Wildlife (Protection) Act, 1972 and/or the Environment (Protection) Act, 1986.
8. Baseline environmental study for ambient air (PM10, PN2.5, SO<sub>2</sub>, NO<sub>x</sub> & CO), water (both surface and ground), noise and soil for one month (except monsoon period) as per MoEF & CC/CPCB guidelines at minimum 5 locations in the study area of 10 Km.
9. Details on flora and fauna and socio-economic aspects in the study area.
10. Likely impact of the project on the environmental parameters (ambient air, surface and ground water, land, flora and fauna and socio-economic, etc.)
11. Sources of water for different identified purpose with the permissions required from the concerned authorities, both for surface water and the ground water (by CGWA) as the case may be, Rain water harvesting, etc.
12. Waste water management (treatment, reuse and disposal) for the project and also the study area
13. Management of solid waste and the construction & demolition waste for the project vis-à-vis the Solid Waste Management Rules, 2016 and the Construction & Demolition Rules, 2016.
14. Energy efficient measures (LED lights, solar power, etc) during construction as well as during operational phase of the project.
15. Assessment of ecological damage with respect to air, water, land and other environmental attributes. The collection and analysis of data shall be done by an environmental laboratory duly notified under the Environmental (Protection) Act, 1986, or an environmental laboratory accredited by NABL, or a laboratory of a Council of Scientific and Industrial Research (CSIR) institution working in the field of environment.
16. Preparation of EMP comprising remediation plan and natural community resource augmentation plan corresponding to the ecological damage assessed and economic benefits derived due to violation.
17. The remediation plan and the natural and community resource augmentation plan to be prepared as an independent chapter in the EIA report by the accredited consultant.

**7. Case No. – 7580/2020 Shri Aditya Pratap Singh S/o Shri Dinesh Singh Baghel. Village – Barha, Tehsil Teonthar, Distt. Rewas (M.P.) Prior Environment Clearance for Stone Quarry in an area of 2.0 Ha (27033 Cum/Annum ) (Khasra No. 1/3/2) Village – Kathar, Tehsil – Teonthar Distt. Rewa (M.P.)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 1/3/2) Village – Kathar, Tehsil – Teonthar Distt. Rewa (M.P.) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 3058 dated: 03/09/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation during presentation as per Google image based on coordinates provided by PP within 500 meters following sensitive features were observed.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Natural Drain	>100	SW	Provision of Garland drain & settling tanks.

Further, in the DFO, letter dated 04/11/2019 forest area is at a distance of approx. 150 meters from the lease boundary, for which PP has obtained approval from Divisional Commissioner Level Forest Committee, meeting held on 17.10.2019. After presentation the committee asked to submit following details:

- Conceptual depth of proposed mine and space available at pit bottom.
- Revised EMP add proposal for grazing land development with budget as suggested during presentation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 27,033 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 05.44 Lakh as capital and Rs. 01.88 Lakh/year and under CER Rs. 01.50 Lakh has proposed.

**8. Case No 7541/2020 Shri Ajeet Singh S/o SHri Sher Singh Yadav, Village - Raghopur, Tehsil - Chandiya, Dist. Umariya, MP – 484660 Prior Environment Clearance for Stone Quarry in an area of 1.974 ha. (49173 cum per annum) (Khasra No. 148/2, 149), Village - Raghopur, Tehsil - Chandiya, Dist. Umariya (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 148/2, 149), Village - Raghopur, Tehsil - Chandiya, Dist. Umariya (MP) 1.974 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1130 dated: 11/08/2020 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 3.948 ha., including this mine.

The case was presented by the PP and their consultant during presentation during presentation as per Google image based on coordinates provided by PP within 500 meters following sensitive features were observed.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Kachcha Road	within the lease	-	Right of access to be provided to the local villagers.
01 Trees	within lease	-	Existing 01 trees within lease are proposed felling for which PP will take permission from competent authority and 10 trees shall be additionally planted, and other trees which are located in the barrier zone shall be kept intact.
Pucca Road	>200	North	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

Further, PP stated that in the DFO in their letter stated that Bandhavgarh Tiger Reserve is 2.10 KMs. and 0.37 KM from the buffer area. After presentation the committee asked to submit following details:

After presentation the committee asked to submit following details:

- Justification that the buffer of Bandhavgarh Tiger Reserve is the same as ESZ of Bandhavgarh National Park.
- Conceptual depth of proposed mine and space available at pit bottom.
- Revised EMP add proposal for grazing land development with budget as suggested during presentation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 49,173 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 06.13 Lakh as capital and Rs. 01.21 Lakh/year and under CER Rs. 01.50 Lakh has proposed.

**9. Case No. – 6507/2019 M/s Varahi Maa Mining & Crushing, Shri Vishveshwar Dayal Sharma, S-3, Krishna Enclave, F Block, Kamla Nagar, Dist. Agra, UP Prior Environment Clearance for Stone Quarry in an area of 4.00 ha. (1,54,731 cum per annum) (Khasra No. 936 Part), Village - Babai, Tehsil - Niwari, Dist. Niwari (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 936 Part), Village - Babai, Tehsil - Niwari, Dist. Niwari (MP) 4.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Ekal Praman-Patr (Collector Office) letter No. 3016 dated:

07/01/19 has reported that there are 05 more mines operating or proposed within 500 meters around the said mine with total area of 21.00 ha., including this mine.

Earlier this case was scheduled for presentation and discussion in 398<sup>th</sup> SEAC meeting dated 04-10-19 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 04/09/2020 which was forwarded through SEIAA vide letter no. 2701 dated 08/09/2020, which was placed before the committee.

The case was presented by the PP/consultant and they stated that this is case of capacity expansion of Stone Quarry from 30,000 cum per annum to 1,54,731 cum per annum. During presentation PP informed that they have obtained MoEF&CC compliance report issued vide letter dated 05.02.2020 and compliance was found satisfactory. As per Google image based on coordinates provided by PP it was observed that a habitation which is about 200 meters at north side and a pucca road is existing in the SE direction at 100 meters. PP further submitted that the ultimate depth shall be up to 40 meters and space available at pit bottom shall be 34 mX 198 meters in the conceptual period. After presentation and deliberation, PP was asked to submit following information:

1. Inventory of the trees existing within lease and their felling status and proposal for additional trees including compensatory plantation.
2. Commitment that no deep whole blasting shall be proposed.
3. Revised surface plan as settlement in the north side of the lease area hence, a setback of 40 meters including 7.5 m barrier zone.
4. Revised EMP add proposal for grazing land development with budget as suggested during presentation
5. Revised CER as suggested during presentation by the committee.

PP vide their letter dated 17.09.2020 submitted query reply which was placed before the committee which was found satisfactory and acceptable to the committee. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of EC for expansion of Stone Quarry in an area of 4.00 ha. (1,54,731 cum per annum) (Khasra No. 936 Part), Village - Babai, Tehsil - Niwari, Dist. Niwari (MP) , subject to the following special conditions:

**(A) PRE-MINING PHASE**

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.

2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.
9. Slope stability study shall be carried out before commencing the mining activities.
10. Reject stone shall be sold only after approval of the State Government as per the prevailing rules & regulations.

**(B) MINING OPERATIONAL PHASE**

11. No overcharging during blasting to avoid vibration.
12. Controlled and muffle blasting shall be carried out considering habitation northern side of the lease.
13. No deep hole blasting shall be carried out.
14. Working height of the loading machines shall be compatible with bench configuration.
15. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
16. No explosive will be stored at the mine site.
17. No intermediate stacking is permitted at the mine site.
18. No dump shall be stacked outside the lease area.
19. Overhead sprinklers shall be provided in mine.
20. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
21. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 6500 trees shall be planted on barrier zone, backfilled area and along the transportation route.
22. Transportation of material shall be done in covered vehicles.
23. Transportation of minerals shall not be carried out through forest area.

24. The OB shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
25. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the details of Garland Drain & Settling Tank are given below:

<b>Garland Drain</b>	<b>1<sup>st</sup> Settling Tank</b>
Length * Width * Depth	Length * Width * Depth
= 750 * 1.5 * 1.0 m <sup>3</sup>	= 15 * 4 * 2.5m <sup>3</sup>
= 1125 m <sup>3</sup>	= 150 m <sup>3</sup>
2 <sup>nd</sup> Settling Tank	3rdSettling Tank
Length * Width * Depth	Length * Width * Depth
= 15 * 4 * 2.5 m <sup>3</sup>	= 20* 4 * 2.5m <sup>3</sup>
= 150 m <sup>3</sup>	= 200 m <sup>3</sup>

26. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
27. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
28. The existing and proposed land use plan of the mine is as follows:

SR.	Land USE	PRESENT Area (Hect.AGL)	AFTER FIRST 5 YEAR Area (Hect.) BGL	AT THE END OF MINE LIFE (CONCEPTUAL)
1.	Pits	0.065	2.618	-----
2.	Dump	0.000	0.261	0.000
3.	Plantation (within Barrier Zone)	0.000	0.072	0.162
4.	Barrier Zone	0.000	0.551	0.461



5.	Water Body	0.000	0.000	3.377
6.	Unused	3.935	0.498	0.000
	Total	4.000	4.000	4.000

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

**(C) ENTIRE LIFE OF THE PROJECT**

34. In the proposed EMP, capital cost is Rs. 12.35 Lakh is proposed and Rs.6.675Lakh /year as recurring expenses.
35. Under CSR activity, Rs. 13.40 Lakh is proposed in 05 years is proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
36. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
37. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

**10. Case No. – 6508/2019 M/s Savitri Maa Infratech, Shri Vishveshwar Dayal Sharma, S-3, Krishna Enclave, F Block, Kamla Nagar, Dist. Agra, UP Prior Environment Clearance for Stone Quarry in an area of 4.00 ha. (1,34,525 cum per annum) (Khasra No. 936 Part), Village - Babai, Tehsil - Niwari, Dist. Niwari (MP).**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 936 Part), Village - Babai, Tehsil - Niwari, Dist.

Niwari (MP) 4.00 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Ekal Praman-Patr (Collector Office) letter No. 3015 dated: 07/01/19 has reported that there are 05 more mines operating or proposed within 500 meters around the said mine with total area of 21.00 ha., including this mine.

Earlier this case was scheduled for presentation and discussion in 398<sup>th</sup> SEAC meeting dated 04-10-19 wherein ToR was recommended.

PP has submitted the EIA report vide letter dated 04/09/2020 which was forwarded through SEIAA vide letter no. 2703 dated 08/09/2020, which was placed before the committee.

The case was presented by the PP / consultant and they stated that this is case of capacity expansion of Stone Quarry from 79,874 m<sup>3</sup>/year to 1,34,525 m<sup>3</sup>/year cum per annum. PP submitted MoEF&CC compliance report vide letter dated 05.02.2020. During presentation it was observed that as per Google image based on coordinates provided by PP a habitation which is about >160 meters PP shall left set back of 40 meters as per NGT order dated 21.07.2020 in OA 304/2019. A pucca road is existing in the SE direction at >180 meters. PP further submitted that the ultimate depth shall be up to 40 meters and space available at pit bottom shall be 34 mX 198 m in the conceptual period. After presentation and deliberation, PP was asked to submit following information:

1. Existing 01 tree is proposed for felling for which PP will take permission from competent authority and 10 trees shall be additionally planted.
2. Revised surface map showing non- mining area which include setback of 40 meters.
3. Commitment that no deep whole blasting shall be proposed.
4. Revised EMP add proposal for grazing land development with budget as suggested during presentation
5. Revised CER as suggested during presentation by the committee.

PP vide their letter dated 17.09.2020 submitted query reply which was placed before the committee which was found satisfactory and acceptable to the committee. The EIA/EMP and other submissions made by the PP earlier were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of expansion of EC for Stone Quarry in an

area of 4.00 ha. (1,34,525 cum per annum) (Khasra No. 936 Part), Village - Babai, Tehsil - Niwari, Dist. Niwari (MP), subject to the following special conditions:

**(A) PRE-MINING PHASE**

1. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
2. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
3. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
4. PP will also carry out fencing all around the lease area.
5. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
6. For dust suppression, regular sprinkling of water should be undertaken.
7. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
8. PP will obtain other necessary clearances/NOC from respective authorities.
9. Slope stability study shall be carried out before commencing the mining activities.
10. Reject stone shall be sold only after approval of the State Government as per the prevailing rules & regulations.

**(B) MINING OPERATIONAL PHASE**

11. No overcharging during blasting to avoid vibration.
12. Controlled and muffle blasting shall be carried out considering habitation northern side of the lease.
13. No deep hole blasting shall be carried out.
14. Working height of the loading machines shall be compatible with bench configuration.
15. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
16. No explosive will be stored at the mine site.
17. No intermediate stacking is permitted at the mine site.
18. No dump shall be stacked outside the lease area.
19. Overhead sprinklers shall be provided in mine.
20. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.

21. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 6510 trees shall be planted on barrier zone, backfilled area and along the transportation route.
22. Transportation of material shall be done in covered vehicles.
23. Transportation of minerals shall not be carried out through forest area.
24. The OB shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
25. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the details of Garland Drain & Settling Tank are given below:

<b>Garland Drain</b>	<b>1<sup>st</sup> Settling Tank</b>
Length * Width * Depth	Length * Width * Depth
= 750 * 1.5 * 1.0 m <sup>3</sup>	= 15 * 4 * 2.5m <sup>3</sup>
= 1125 m <sup>3</sup>	= 150 m <sup>3</sup>
<b>2<sup>nd</sup> Settling Tank</b>	<b>3<sup>rd</sup>Settling Tank</b>
Length * Width * Depth	Length * Width * Depth
= 15 * 4 * 2.5 m <sup>3</sup>	= 20* 4 * 2.5m <sup>3</sup>
= 150 m <sup>3</sup>	= 200 m <sup>3</sup>

26. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
27. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
28. The existing and proposed land use plan of the mine is as follows:

SR.	USE	PRESENT Area (Hect.) AGL	AFTER FIRST 5 YEAR Area (Hect.) BGL	AT THE END OF MINE LIFE (CONCEPTUAL)
1.	PITS	0.065	2.491	-----

2.	DUMP	0.000	0.198	0.000
3.	PLANTATION (within Barrier Zone)	0.000	0.072	0.162
4.	BARRIER ZONE	0.000	0.572	0.483
5.	WATER BODY	0.000	0.000	3.355
6.	UNUSED	3.935	0.667	0.000
	TOTAL	4.000	4.000	4.000

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

**(C) ENTIRE LIFE OF THE PROJECT**

34. In the proposed EMP, capital cost is Rs. 12.35 Lakh is proposed and Rs.6.675Lakh /year as recurring expenses.
35. Under CSR activity, Rs. 13.50 Lakh is proposed in 05 years is proposed as capital and recurring expenses respectively in different activities and should be implemented through respective committees.
36. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.

37. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

**11. Case No 7537/2020 Shri Devendra Malviya S/o Shri L.L. Malviya, Sagar Apartment, Sanchar X, Dist. Indore, MP – 452016 Prior Environment Clearance for Stone Quarry in an area of 2.906 ha. (21923 cum per annum) (Khasra No. 115/1, 115/2), Village - Mohi, Tehsil - Multai, Dist. Betul (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 115/1, 115/2), Village - Mohi, Tehsil - Multai, Dist. Betul (MP) 2.906 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1057 dated: 24/07/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
04 Trees	within lease	-	Existing 02 trees within lease are proposed for felling for which PP will take permission from competent authority and 20 trees shall be additionally planted, and other trees which are located in the barrier zone shall be kept intact.
Pucca Road	>450	North-West	Controlled blasting with arrangements of sand bags and three rows of plantation towards road side.
Railway Track	>450	East	Controlled blasting with arrangements of sand bags and three rows of plantation towards road side.

After presentation the committee asked to submit following details:

- Conceptual depth of proposed mine and space available at pit potted.
- Revised Plantation scheme.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 21,923 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs.7.70 Lakh as capital and Rs. 2.72 Lakh/year and under CER Rs. 0.450 Lakh has proposed.

**12.Case No 7536/2020 Smt. Sarika Bhavsar W/o Shri Umesh Bhavsar, Near Purana Bachha Jail, Mahaveer Ward, Tikri, Tehsil & Dist. Betul, MP - 460001 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (11780 cum per annum) (Khasra No. 317/1), Village - Gorakhar, Tehsil - Betul, Dist. Betul (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 317/1), Village - Gorakhar, Tehsil - Betul, Dist. Betul (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1085 dated: 29/07/2020 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 2.965 ha., including this mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Human settlement	>440	West	Protection plan & muffle blasting with arrangements of sand bags and three rows of plantation in this side.

PP further stated that existing crusher will be relocated from the lease to the other land which is possessed by PP. After presentation the committee asked to submit following details:

- PP's commitment that existing crusher will be relocated from the lease to the other land which is under possession of PP.
- Revised proposal 1200 nos. of trees.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 11,780 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs.7.70 Lakh as capital and Rs. 2.72 Lakh/year and under CER Rs. 0.450 Lakh has proposed.

**13. Case No 7533/2020 Shri Mahendra Kumar Malviya S/o Late SHri Kaluram Malviya, R.K.Puram, Badora, Dist. Betul, MP – 460001 Prior Environment Clearance for Stone Quarry in an area of 6.433 ha. (75441 cum per annum) (Khasra No. 314, 315/1/1, 315/1/2, 315/2, 315/3, 316/1, 316/2, 141), Village - Nahiya, Tehsil - Betul, Dist. Betul (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 314, 315/1/1, 315/1/2, 315/2, 315/3, 316/1, 316/2, 141), Village - Nahiya, Tehsil - Betul, Dist. Betul (MP) 6.433 Ha. The project requires prior EC before commencement of any activity at site.

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



format duly verified in the Collector Office (Ekal Praman-Patr) letter no. 1084 dated: 29.07.2020 has reported that there are 02 more mines operating or proposed within 500 meters around the said mine with total area of 8.68 ha., including this mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
04 Trees	within lease	-	Existing 02 trees within lease are proposed felling for which PP will take permission from competent authority and 20 trees shall be additionally planted, and other trees which are located in the barrier zone shall be kept intact.
Human settlement	>730	South – East	Protection plan & muffle blasting with arrangements of sand bags and three rows of plantation in this side.

The case was presented by the PP and their consultant, being it's a case Stone Quarry with total area of 8.68 ha. including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

- The project proponent shall discuss the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled “Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”, and shall be discussed in the EIA report.
- Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.

- Transportation plan & traffic management plan should be discussed in the EIA report.
- Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
- Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
- Input data of modeling should be addressed in EIA along with this all back up calculation.
- Onsite pictures of monitoring and survey should be attached with the EIA report.
- Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
- CER shall also incorporate awareness/ training activities including distribution of masks, sanitizers, mass sanitization programme in the project affected villages' w.r.t. COVID-19 pandemic.

**14. Case No 7538/2020 Shri Nirmal Singh Saluja, Owner, Amla, Dist. Betul, MP – 460551 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (12348 cum per annum) (Khasra No. 793), Village - Sasabad, Tehsil - Amla, Dist. Betul (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 793), Village - Sasabad, Tehsil - Amla, Dist. Betul (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1047 dated: 22/07/2020 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 3.0 ha., including this mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	>200	North	Controlled blasting with arrangements of sand bags and three rows of plantation towards road side.

After presentation the committee asked to submit following details:

- Conceptual depth of proposed mine and space available at pit bottom.
- Revised plantation scheme considering additional 20% mortality rate of trees.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 12,348 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs.7.70 Lakh as capital and Rs. 2.72 Lakh/year and under CER Rs. 0.450 Lakh has proposed.

**15. Case No 7539/2020 Smt. Sarika Bhavsar W/o Shri Umesh Bhavsar, Near Purana Baccha Jail, Mahaveer Ward, Tikri, Tehsil & Dist. Betul, MP - 460001 Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (21678 cum per annum) (Khasra No. 327/1/2), Village - Gorakhar, Tehsil - Betul, Dist. Betul (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 327/1/2), Village - Gorakhar, Tehsil - Betul, Dist. Betul (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1086 dated: 29/07/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Trres/ Shrubs	within lease	Sparsely distributed	PP submitted these are shrubs.

Pucca Road	>10	West	Controlled blasting with arrangements of sand bags and three rows of plantation towards road side.
Natural Drain	>25	North- East	Setback of 25 meters and provision of Garland drain & settling tanks.

After presentation the committee asked to submit following details:

- EMP Map showing setback of 25 meters.
- Conceptual depth of proposed mine and space available at pit bottom.
- Revised plantation scheme considering additional 20% mortality rate of trees.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 21,678 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs.7.90 Lakh as capital and Rs. 2.61 Lakh/year and under CER Rs. 02.25 Lakh has proposed.

**16. Case No 7506/2020 M/s Siddhi Vinayak Stone Crusher, Shri Vijay Kuderiya, Partner, Ward No. 19, Basari Darbaza, Near Kamla Nehru, Dist. Chhatarpur, MP - 471001 Prior Environment Clearance for Stone Quarry in an area of 2.8440 ha. (150000 cum per annum) (Khasra No. 2149, 2150, 2224), Village - Kanti, Tehsil - Chhatarpur, Dist. Chhatarpur (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 2149, 2150, 2224), Village - Kanti, Tehsil - Chhatarpur, Dist. Chhatarpur (MP) 2.8440 Ha. The project requires prior EC before commencement of any activity at site.

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

format duly verified in the Collector Office letter no. 2392 dated: 22/05/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

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

**17. Case No 7509/2020 M/s Tirupati Stones, Shanti Nagar Colony, Street No. 1, Behind of Gandhi Ashram, Dist. Chhatarpur, MP Prior Environment Clearance for Stone Quarry in an area of 4.0 ha. (4,00,000 cum per annum) (Khasra No. 566/2 Part), Village - Pagara, Tehsil - Bijawar, Dist. Chhatarpur (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 566/2 Part), Village - Pagara, Tehsil - Bijawar, Dist. Chhatarpur (MP) 4.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1072 dated: 23/06/2020 has reported that there are 05 more mines operating or proposed within 500 meters around the said mine with total area of 14.460 ha., including this mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Water body	>210	West	Provision of Protection plan and Garland drain & settling tanks.

PP stated that baseline data has been collected in between Dec. 2019 to Feb. 2020. Being it's a case Stone Quarry with total area of 14.460 ha. including this mine and according to the latest O.M F.No. L-11011/175/2018/-IA-II (M) dated 12/12/2018 if a cluster or an individual lease

exceeds 5 ha the EIA/EMP be made applicable in the process of grant of prior environmental clearance and thus committee decided to issue standard TOR prescribed by the MoEF&CC may be issued for conducting the EIA with following additional TORs and as per conditions mentioned in Annexure-D:-

- Provision of Protection plan and Garland drain & settling tanks as water body is about >210 meters with its protection plan.
- The project proponent shall discuss the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled “Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”, and shall be discussed in the EIA report.
- Detailed evacuation plan with transport route, required infrastructure and man-power is to be discussed in the EIA report.
- Transportation plan & traffic management plan should be discussed in the EIA report.
- Inventory of all sensitive receptors in 2 Km & 5 Km around the mine.
- Mine water discharge plan with details of garland drains and settling tanks should be detailed out on a map in the EIA report.
- Inventory of all existing trees and if any tree is to be uprooted, then it should be clearly addressed in EIA.
- CER shall also incorporate awareness/ training activities including distribution of masks, sanitizers, mass sanitization programme in the project affected villages’ w.r.t. COVID-19 pandemic.

**18. Case No 7571/2020 M/s L.S.Mining, 114, Peptech City, Dist. Satna, MP - 485001 Prior Environment Clearance for Stone Quarry in an area of 3.310 ha. (12000 cum per annum) (Khasra No. 1481/1/2, 1482/1/A/1, 1482/7/BA/2, 1484/2), Village - Shivrajpur, Tehsil - Nagod, Dist. Satna (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 1481/1/2, 1482/1/A/1, 1482/7/BA/2, 1484/2), Village - Shivrajpur, Tehsil - Nagod, Dist. Satna (MP) 3.310 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease’s within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1352 dated: 15/07/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	340	North	Controlled blasting with sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 12,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 5.86 Lakh as capital and Rs. 1.62 Lakh/year and under CER Rs. 01.0 Lakh has proposed.

**19. Case No 7520/2020 Shri Ramesh Chandra Kalmodiya S/o Shri Siddhnath Kalmodiya, Village - Leemachauhan, Tehsil - Sarangpur, Dist. Rajgarh, MP – 465687 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (7500 cum per annum) (Khasra No. 1728, 1729) at Village- Leemachauhan, Tehsil- Sarangpur, District- Rajgarh (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 1728, 1729) at Village- Leemachauhan, Tehsil- Sarangpur, District- Rajgarh (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office letter no. 102 dated: 04/07/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Kachha Road	40	West	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

PP further stated that the ultimate depth shall be up to 15 meters and space available at pit bottom shall be  $86 \text{ m} \times 20 = 1720 \text{ m}^3$  in the conceptual period. After presentation the committee asked to submit following details:

- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 75,00 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.68 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh has proposed.



**20. Case No 7521/2020 Shri Rajendra Kumar Agrawal, R/o Tilakpath, Sujalpur, Dist. Shajapur, MP – 465226 Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (40000 cum per annum) (Khasra No. 239) at Village- Mangliya, Tehsil- Mo. Badodiya, District- Shajapur (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 239) at Village- Mangliya, Tehsil- Mo. Badodiya, District- Shajapur (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsidlar Office letter no. nil dated: 6/07/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	>50 & 100	North & West	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Human settlement	>200	South	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

PP further stated that the ultimate depth shall be up to 10 meters and space available at pit bottom shall be  $105 \text{ m} \times 71 = 7496 \text{ m}^3$  in the conceptual period. After presentation the committee asked to submit following details:

- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 40,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 12.58 Lakh as capital and Rs. 3.78 Lakh/year and under CER Rs. 01.0 Lakh has proposed.

**21. Case No 7528/2020 Smt. Prerna Gupta W/o SHri Piyush Gupta, Village - Gulkhedi, Tehsil - Pachore, Dist. Rajgarh, MP - 465683 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (9000 cum per annum) (Khasra No. 388/1, 388/4/1), Village - Gulkhedi, Tehsil - Pachore, Dist. Rajgarh (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 388/1, 388/4/1), Village - Gulkhedi, Tehsil - Pachore, Dist. Rajgarh (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office letter no. 3814 dated: 26/06/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
NH	>160	South	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

Railway Line	>300	North	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Natural Drain	>210	East	Provision of Garland drain & settling tanks.

After presentation the committee asked to submit following details:

- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 9,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.16 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh has proposed.

**22. Case No 7529/2020 Shri Kushal Singh S/o Shri Laxminarayan Mandloi, Village - Brahmankheda, Tehsil - Jirapur, Dist. Rajgarh, MP - 465661 Prior Environment Clearance for Stone Quarry in an area of 2.0 ha. (10000 cum per annum) (Khasra No. 471), Village - Rajpura, Tehsil - Jirapur, Dist. Rajgarh (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 471), Village - Rajpura, Tehsil - Jirapur, Dist. Rajgarh (MP) 2.0 Ha. The project requires prior EC before commencement of any activity at site.

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

format duly verified in the Tehsidlar Office letter dated: 12/06/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Pucca Road	>110	North	Controlled blasting with sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 10,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 11.32 Lakh as capital and Rs. 3.68 Lakh/year and under CER Rs. 0.90 Lakh/ year is proposed.

**23. Case No 7540/2020 Smt. Mamta Devi W/o Shri Sitaram Lahri, R/o Pachore, Dist. Rajgarh, MP – 465683 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (9000 cum per annum) (Khasra No. 460), Village - Baredi Jaagir, Tehsil - Pachore, Dist. Rajgarh (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 460), Village - Baredi Jaagir, Tehsil - Pachore,

Dist. Rajgarh (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 496 dated: 15/05/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Pucca Road	>130	North	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 9,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 7.62 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh/ year is proposed.

**24. Case No 7554/2020 M/s Apco Infratech Pvt. Ltd, House No. B-9, Vibhuti Khand, Gomti Nagar, Dist. Lucknow, UP - 471525 Prior Environment Clearance for Stone Quarry in an area of 2.667 ha. (150000 cum per annum) (Khasra No. 1216/1/2, 1216/1/3, 1216/2, 1216/3), Village - Badaurakala, Tehsil - Gaurihar, Dist. Chhatarpur (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 1216/1/2, 1216/1/3, 1216/2, 1216/3), Village - Badaurakala, Tehsil - Gaurihar, Dist. Chhatarpur (MP) 2.667 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office letter no. 247 dated: 12/12/2019 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Natural Drain	>60	North-East	Provision of Garland drain & settling tanks.
Natural Drain	>65	South	Provision of Garland drain & settling tanks.

PP stated that in the south side lease is very narrow and deployment of men and machine shall be difficult hence, they will dealt this area as no- mining area . After presentation the committee asked to submit following details:

- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other

submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 1,50,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 24.22 Lakh as capital and Rs. 5.8 Lakh/year and under CER Rs. 01.50 Lakh/ year is proposed.

**25. Case No 7569/2020 Shri Ankit Gupta S/o Shri Dinesh Gupta, Village - Kulmipura, Tehsil & Dist. Ujjain, MP – 456661 Prior Environment Clearance for Murrum Quarry in an area of 1.60 ha. (8000 cum per annum) (Khasra No. 1053), Village - Harsodhan, Tehsil - Ujjain, Dist. Ujjain (MP)**

This is case of Murrum Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 1053), Village - Harsodhan, Tehsil - Ujjain, Dist. Ujjain (MP) 1.60 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office letter no. 1028 dated: 13/08/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation during presentation as per Google image based on coordinates provided by PP, it was observed that the lease area is already excavated, PP submitted that it is very old pit and TP was granted to other PP in the earlier time, they have this shown pit has on surface map. PP further submitted that since it is a Murrum Quarry no blasting and no drilling is proposed. Mining shall be done through Opencast Semi Mechanized Method. Within 500 meters following sensitive features were observed

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Kachcha Road	Just in vicinity	South-East	Set back of 10 meters in the South-East side of the lease.

After presentation the committee asked to submit following details:

- Conceptual depth of mining and pit bottom space in the conceptual period
- Surface map showing 10 meters setback due to kachha road..

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Murrum 8,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 9.94 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh/ year is proposed.

**26. Case No 7565/2020 Shri Manil Goyal S/o Shri Mahesh Goyal, R/o Village - Pachore, Dist. Rajgarh, MP – 465683 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (7000 cum per annum) (Khasra No. 713/3/1, 713/4/1/2), Village - Nagar Pachore, Tehsil - Pachore, Dist. Rajgarh (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 713/3/1, 713/4/1/2), Village - Nagar Pachore, Tehsil - Pachore, Dist. Rajgarh (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office letter no. 3722 dated: 28/05/2020 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 2.0 ha., including this mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.



Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Natural Drain	>100	West	Provision of Garland drain & settling tanks.

PP stated that in the south side lease is narrow they will dealt this area as no- mining area . After presentation the committee asked to submit following details:

- Revised Tehsildar certificate which disclose of other mines operating or proposed within 500 meters etc.
- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 7,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.75 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh/ year is proposed.

**27. Case No 7511/2020 Shri Subhash Pal S/o Shri Shankar Lal Pal, Village - Dhatrawada, Tehsil - Mo. Badodiya, Dist. Shajapur, MP – 465691 Prior Environment Clearance for Crusher Stone Quarry in an area of 1.0 ha. (4000 cum per annum) (Khasra No. 184, 185) at Village- Dhatrawada, Tehsil- Mo. Badodiya, District- Shajapur (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 184, 185) at Village- Dhatrawada, Tehsil- Mo. Badodiya, District- Shajapur (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Collector Office (Ekal Praman-Patr) letter no. 690 dated: 31/07/2020 has reported that there are 01 more mines operating or proposed within 500 meters around the said mine with total area of 3.0 ha., including this mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Kachcha Road	90	South-east	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Pucca Road (SH)	>440	West	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Human settlement	>450	NE	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Land aggriment documents.
- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 4,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.55 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh/ year is proposed.

**28. Case No 7572/2020 Shri Mukesh Gaur S/o SHri Ramgopal Gaur, R/o Village - Kachnariya, Tehsil - Shyampur, Dist. Sehore, MP – 466651 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (8000 cum per annum) (Khasra No. 137/1/1, 647/137), Village - Kachnareiya, Tehsil - Shyampur, Dist. Sehore (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 137/1/1, 647/137), Village - Kachnareiya, Tehsil - Shyampur, Dist. Sehore (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office letter no. 101 dated: 24/06/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

<b>Sensitive Features</b>	<b>Approximate aerial distance from the lease area in meters</b>	<b>Direction</b>	<b>Remarks</b>
Kachcha Road	>175	South-east	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.
Human settlement	>500	NE	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Land aggriment documents.
- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.

- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 8,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.07 Lakh as capital and Rs. 3.10 Lakh/year and under CER Rs. 0.60 Lakh/ year is proposed.

**29. Case No 7573/2020 Shri Suraj Singh S/o Shri Motilal Patel, R/o Village - Kapuri, Tehsil & Dist. Sehore, MP - 461990 Prior Environment Clearance for Stone Quarry in an area of 1.0 ha. (8000 cum per annum) (Khasra No. 354), Village - Kapuri, Tehsil - Sehore, Dist. Sehore (MP)**

This is case of Stone Quarry. The application was forwarded by SEIAA to SEAC for appraisal. The proposed site at (Khasra No. 354), Village - Kapuri, Tehsil - Sehore, Dist. Sehore (MP) 1.0 Ha. The project requires prior EC before commencement of any activity at site.

PP has submitted a copy of approved Mining Plan, DSR report, information in the lease's within 500 meters radius around the site and other requisite information in the prescribed format duly verified in the Tehsildar Office letter no. 348 dated: 17/02/2020 has reported that there are no more mines operating or proposed within 500 meters around the said mine.

The case was presented by the PP and their consultant during presentation as per Google image based on coordinates provided by PP, within 500 meters following sensitive features were observed of the lease area.

Sensitive Features	Approximate aerial distance from the lease area in meters	Direction	Remarks
Human settlement	>500	W& NW	Controlled blasting with arrangements of sand bags and three rows of Plantation towards road side.

After presentation the committee asked to submit following details:

- Land aggriment documents.
- Conceptual depth of mining and pit bottom space in the conceptual period
- Revised plantation scheme considering additional 20% mortality rate of trees.
- Revised EMP including budget for additional 20% plantation.

PP has submitted the response of above quarries same date vide letter dated 17.09.2020, which was placed before the committee and the same found satisfactory. The EMP and other submissions made by the PP were found to be satisfactory and acceptable, hence committee decided to recommend the case for grant of prior EC subject to the following special conditions in addition to the standard conditions at annexure 'A':

1. Production shall be as per mine plan with quantity not exceeding for Stone 8,000 cum per annum.
2. A budgetary provision for Environmental management Plan of Rs. 8.56 Lakh as capital and Rs. 3.58 Lakh/year and under CER Rs. 0.60 Lakh/ year is proposed.

**(Dr. Anil Sharma)**  
**Member**

**(Dr. Mohd. Akram Khan)**  
**Member**

**(Dr. Sonal Mehta)**  
**Member**

**(Dr. R. Maheshwari)**  
**Member**

**(Dr. Jai Prakash Shukla)**  
**Member**

**(A.A. Mishra)**  
**Secretary**

**(Dr. Rubina Chaudhary)**  
**Member**

**(Mohd. Kasam Khan)**  
**Chairman**

**Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions and cases appraised for grant of TOR:**

**Annexure- 'A'**

**Standard conditions applicable to Stone/Murum and Soil quarries:**

1. Mining should be carried out as per the submitted land use plan and approved mine plan.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and fenced from all around the site. Necessary safety signage & caution boards shall be displayed at mine site.
3. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
5. Mineral evacuation road shall be made pucca (WBM/black top) by PP.
6. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
7. Crusher with inbuilt APCD & water sprinkling system shall be installed minimum 100 meters away from the road and 500 meters away from the habitations only after the permissions of MP Pollution Control Board with atleast 03 meters high wind breaking wall of suitable material to avoid fugitive emissions.
8. Thick plantation shall be carryout in the periphery/barrier zone of the lease, mineral evacuation road and common area in the village. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
9. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
10. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
11. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
12. To avoid vibration, no overcharging shall be carried out during blasting and muffle blasting shall be adopted. Blasting shall be carried out through certified blaster only and no explosive will be stored at mine site without permission from the competent authority.
13. Mine water should not be discharged from the lease and be used for sprinkling & plantations. For surface runoff and storm water garland drains and settling tanks (SS pattern) of suitable sizes shall be provided.
14. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
15. 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.

16. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
17. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
18. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
19. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
20. All the mines where production is > 50,000 cum/year, PP shall develop its own website to display various mining related activities proposed in EMP & CER along with budgetary allocations. All the six monthly progress report shall also be uploads on this website along with MoEF&CC & SEIAA, MP with relevant photographs of various activities such as garland drains, settling tanks, plantation, water sprinkling arrangements, transportation & haul road etc. PP or Mine Manager shall be made responsible for its maintenance & regular updation.
21. All the soil queries, the maximum permitted depth shall not exceed 02 meters below general ground level & other provisions laid down in MoEF&CC OM No. L-11011/47/2011-IA.II(M) dated 24/06/2013.
22. The mining lease holders shall after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora , fauna etc. Moreover, A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
23. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

**Annexure- 'B'**

**Standard conditions applicable for the Sand Mine Quarries\***

1. District Authority should annually record the deposition of sand in the lease area (at an interval of 100 meters for leases 10 ha or > 10.00 ha and at an interval of 50 meters for leases < 10 ha.) before monsoon & in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority shall allow lease holder to excavate only the replenished quantity of sand in the subsequent year.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars. Necessary safety signage & caution boards shall be displayed at mine site.
3. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
4. Only registered vehicles/tractor trolleys which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for said purpose.

5. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
6. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
7. Sand and gravel shall not be extracted up to a distance of 1 kilometer (1Km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
8. Mining depth should be restricted to 3 meters or water level, whichever is less and distance from the bank should be 1/4<sup>th</sup> or river width and should not be less than 7.5 meters. No in-stream mining is allowed. Established water conveyance channels should not be relocated, straightened, or modified.
9. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
10. PP shall carry out independent environmental audit atleast once in a year by reputed third party entity and report of such audit be placed on public domain.
11. No Mining shall be carried out during Monsoon season.
12. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF&CC ensuring that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
13. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
14. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
15. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
16. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
17. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
18. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
19. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
20. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
21. 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.
22. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.



23. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
24. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
25. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
26. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
27. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

**Annexure- 'C'**

**Standard conditions applicable for the Sand deposits on Agricultural Land/ Khodu Bharu Type Sand Mine Quarries\***

1. Mining should be done only to the extent of reclaiming the agricultural land.
2. Only deposited sand is to be removed and no mining/digging below the ground level is allowed.
3. The mining shall be carried out strictly as per the approved mining plan.
4. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and necessary safety signage & caution boards shall be displayed at mine site.
5. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit gate of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
6. The mining activity shall be done as per approved mine plan and as per the land use plan submitted by PP.
7. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
8. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
9. For carrying out mining in proximity to any bridge and/or embankment, appropriate safety zone on upstream as well as on downstream from the periphery of the mining site shall be ensured taking into account the structural parameters, location aspects, flow rate, etc., and no mining shall be carried out in the safety zone.
10. No Mining shall be carried out during Monsoon season.
11. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 issued by the MoEF&CC.
12. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
13. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
14. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.

15. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
16. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
17. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
18. 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.
19. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area.
20. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
21. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
22. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
23. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
24. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

**Annexure- 'D'**

**General conditions applicable for the granting of TOR**

1. The date and duration of carrying out the baseline data collection and monitoring shall be informed to the concerned Regional Officer of the M.P Pollution Control Board.
2. During monitoring, photographs shall be taken as a proof of the activity with latitude & longitude, date, time & place and same shall be attached with the EIA report. A drone video showing various sensitivities of the lease and nearby area shall also be shown during EIA presentation.
3. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
4. An inventory of flora & fauna based on actual ground survey shall be presented.
5. Risk factors with their management plan should be discussed in the EIA report.
6. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
7. The EIA document shall be printed on both sides, as far as possible.
8. All documents should be properly indexed, page numbered.
9. Period/date of data collection should be clearly indicated.

10. The letter /application for EC should quote the SEIAA case No./year and also attach a copy of the letter prescribing the TOR.
11. The copy of the letter received from the SEAC prescribing TOR for the project should be attached as an annexure to the final EIA/EMP report.
12. The final EIA/EMP report submitted to the SEIAA must incorporate all issues mentioned in TOR and that raised in Public Hearing with the generic structure as detailed out in the EIA report.
13. Grant of TOR does not mean grant of EC.
14. The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared. If consultant has engaged other laboratory for carrying out the task of monitoring and analysis of pollutants, a representative from laboratory shall also be present to answer the site specific queries.
15. On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MOEF & CC) have been complied with and the data submitted is factually correct.
16. While submitting the EIA/EMP reports, the name of the experts associated with involved in the preparation of these reports and the laboratories through which the samples have been got analyzed should be stated in the report. It shall be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and also have NABL accreditation.
17. All the necessary NOC's duly verified by the competent authority should be annexed.
18. PP has to submit the copy of earlier Consent condition /EC compliance report, whatever applicable along with EIA report.
19. The EIA report should clearly mention activity wise EMP and CER cost details and should depict clear breakup of the capital and recurring costs along with the timeline for incurring the capital cost. The basis of allocation of EMP and CER cost should be detailed in the EIA report to enable the comparison of compliance with the commitment by the monitoring agencies.
20. A time bound action plan should be provided in the EIA report for fulfillment of the EMP commitments mentioned in the EIA report.
21. The name and number of posts to be engaged by the PP for implementation and monitoring of environmental parameters should be specified in the EIA report.
22. EIA report should be strictly as per the TOR, comply with the generic structure as detailed out in the EIA notification, 2006, baseline data is accurate and concerns raised during the public hearing are adequately addressed.
23. The EIA report should be prepared by the accredited consultant having no conflict of interest with any committee processing the case.
24. Public Hearing has to be carried out as per the provisions of the EIA Notification, 2006. The issues raised in public hearing shall be properly addressed in the EMP and suitable budgetary allocations shall be made in the EMP and CER based on their nature.
25. Actual measurement of top soil shall be carried out in the lease area at minimum 05 locations and additionally N, P, K and Heavy Metals shall be analyzed in all soil samples. Additionally in one soil sample, pesticides shall also be analysed.
26. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.

27. PP shall submit biological diversity report stating that there is no adverse impact in- situ and on surrounding area by this project on local flora and fauna's habitat, breeding ground, corridor/ route etc. This report shall be filed annually with six-monthly compliance report.
28. The project proponent shall provide the mitigation measures as per MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area" with EIA report.

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

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