

**State Level Expert Appraisal Committee, Uttarakhand  
653, Indiranagar Colony, Seemadwar Road, Dehradun**

\*\*\*\*\*

**Letter No: @SEAC**  
**Dated: January, 2020**

The 9<sup>th</sup> meeting of the 11<sup>th</sup> Day of Uttarakhand State Level Expert Appraisal Committee (SEAC) was held on 27<sup>th</sup> December, 2019 at the SEIAA/SEAC office Dehradun. The following were present at the meeting –

- |                        |                  |
|------------------------|------------------|
| 1) Dr. R.K. Srivastava | Chairman         |
| 2) Dr. P.S. Bhist      | Member           |
| 3) Dr. B.P Purohit     | Member           |
| 4) Shri Rajiv Dhiman   | Member Secretary |

The meeting was presided by Dr. R.K. Srivastava. The meeting proceeded as per the agenda with permission of the chair. It was noted that proposals, for the meeting, being considered for the appraisal includes Industrial, Building/Construction & Mining (R.B.M/Soapstone) etc. The concerned recognized environment consultants of the proponents made the presentations.

**Proposal – 1**

<b>Name of the Project</b>	Environment Clearance for installation of installation of proposed manufacturing unit of Resin Derivatives by M/s Parvatiya Vikas Udyog Shala located at 232 MI, Peerumadara Ring Road, Village: Papdi, Tehsil: Ramnagar, District: Nainital.
<b>Name &amp; Address of Proponent</b>	M/s Parvatiya Vikas Udyog Shala
<b>Whether New/Expansion Project</b>	New
<b>Total Plot Area</b>	6940.0 m <sup>2</sup>
<b>Project Category</b>	5(f) EIA Notification 2006.

The committee observed that above is a proposal seeking Environmental Clearance for installation of proposed manufacturing unit of Resin Derivatives by M/s Parvatiya Vikas Udyog Shala located at 232 MI, Peerumadara Ring Road, Village: Papdi, Tehsil: Ramnagar, District: Nainital. The committee observed that this project activity is covered under category 5(f) of EIA Notification, 2006. The project was submitted vide proposal no SIA/UK/IND2/129008/2019 on dated 7<sup>th</sup> December, 2019 by project proponent.

The above proponent has submitted detailed project related information in Form - 1, Pre-Feasibility Report and Environment Management Plan. The proponent has also submitted related land documents; lay out plan, EMP, Process Flow Chart.

The committee after examining original proposal and presentation made by the proponent and observed following points:-

Sr. No.	Parameters	Description		
A). Manufacturing Capacity				
Sr. No.	Products	Existing	Proposed	Total
1.	Phenol Formaldehyde Resin	--	250 MT/Month	250 MT/Month
2.	Urea Formaldehyde Resin			
3.	Melamin Formaldehyde Resin			
B). Manpower (Nos.) proposed for Plant operation to achieve the production capacity.				
1.	Manpower	--	15	15
C). DG Set for Alternate Power				
1.	DG Set	--	250 KVA& 125 KVA	250 KVA& 125 KVA
1.	Category of Project as per EIA Notification & Amendments	“B2” as per EIA Notification, 2006		
2.	Proposed Project	The proposed unit for installation of manufacturing unit of Resin deivativesbv M/s Parvativa Vikas Udhvog Shala. PeeruMadara.		

		Ramnagar, District Nainital, Uttarakhand.																		
3.	Total area of the Plant	6940.0 Sq.m.. (Total Plot Area)																		
4.	Capital Cost	` 37.50 Lacs																		
5.	Location	232 MI, Peerumadara Ring Road,Village: Papdi, Tah. Ramnagar, Dist.: Nainital. State :Uttarakhand																		
6.	Coordinates of the Site	Latitude: 29°19'32.46"N Longitude: 79°05'15.07"E																		
7.	Water Requirement/Source																			
	Water Requirement (KLD)	Total – 10.05 KLD Fresh – 8.00 KLD Recycled – 0.95 KLD																		
	Source of water	Existing Bore well																		
8.	Water Break-up	<table> <tr> <td>Industrial activity (Fortified Rosin)</td><td>:</td><td>3.0 KLD</td></tr> <tr> <td>Domestic</td><td>:</td><td>0.45KLD</td></tr> <tr> <td>Green-belt</td><td>:</td><td>4.6 KLD</td></tr> <tr> <td>Miscellaneous</td><td></td><td>1.0 KLD</td></tr> <tr> <td>Utility i.e Cooling Tower</td><td></td><td>1.0 KLD</td></tr> <tr> <td><b>Total</b></td><td><b>:</b></td><td><b>10.05 KLD</b></td></tr> </table>	Industrial activity (Fortified Rosin)	:	3.0 KLD	Domestic	:	0.45KLD	Green-belt	:	4.6 KLD	Miscellaneous		1.0 KLD	Utility i.e Cooling Tower		1.0 KLD	<b>Total</b>	<b>:</b>	<b>10.05 KLD</b>
Industrial activity (Fortified Rosin)	:	3.0 KLD																		
Domestic	:	0.45KLD																		
Green-belt	:	4.6 KLD																		
Miscellaneous		1.0 KLD																		
Utility i.e Cooling Tower		1.0 KLD																		
<b>Total</b>	<b>:</b>	<b>10.05 KLD</b>																		
9.	Waste Water Management Waste water generation Mode of Disposal	1.35 KLD wastewater generated from Industrial Process. Domestic Activities: 0.35 KLD Treated in Proposed STP cum ETP (Capacity2.00 KLD)																		
10.	Employment generation	Existing – Nil Proposed – 15 Nos. <b>Total – 15 Nos.</b>																		
11.	Power Supply/ Start up Power	Existing – 400 KVA Proposed – 50 KVA <b>Total – 450KVA(Sources from UPCL)</b>																		
12.	DG Set	Existing–Nil Proposed – 250 KVA & 125 KVA.																		
13.	Land form, Land use and land ownership	Private land																		

Based on above observations and subject to conditions (**Annexure-1**), the committee recommended the above project for grant of Environmental Clearance subject to submission/clarification of the following documents-

- Project site is 6.2 KM away from Jim Corbett National Park prior approval from Chief Wildlife Warder/NBWL has to be taken.

#### **Proposal – 2**

<b>Site Details</b>	Village-Jamradi Rantada, District-Pithoragarh.
<b>Name &amp; Address of Proponent</b>	Sh. Abhishek Rawat S/o Sh. Sham Singh Rawat R/o- Dharchula Road, Siltham District-Pithoragarh
<b>Coordinates</b>	(A) La- 29°28'18.823"N, Lo - 80° 9'2.120"E (B) La- 29°28'19.344"N, Lo - 80° 9'2.975"E (C) La- 29°28'19.451"N, Lo - 80° 9'3.529"E (D) La- 29°28'19.495"N, Lo - 80° 9'5.970"E
<b>Mining Lease Area</b>	Area-0.482 Ha
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/125562/2019 on dated 17<sup>th</sup> November, 2019 by project proponent. The details of the project are given below:-

S.No	Details	Reply
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>1081 /VII-1/2018/20kha/2018, dated 10 July 2018,</b>

3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 2141/ m0[k0 / Ekk0Iyku / fiFkkSjkkx<+ /2018-19. Date: 05-02-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	45045 Tons in five (5) years
9	Estimate Quantity	9009 TPA
10	Green Belt Area	Afforestation – <b>1000 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	512.00 mRL – 515.00 mRL
13	Maximum Height and Width of Benches/pit	Height – 1.5m, Width – 2.0m to 5m
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Saryu River
16	Project Cost	Rs. 37, 60,000.00
17	CER Cost	Rs. 75,200
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by I.T Cell of Forest Department.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-2**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

### **Proposal – 3**

<b>Site Details</b>	Village-Dhuroli, Tehsil & Pauri Garhwal.
<b>Name &amp; Address of Proponent</b>	Smt. Neetika Chauhan W/o Shri. Trilok Singh Chauhan, Village-Satpulisain, District- Pauri Garhwal
<b>Coordinates</b>	(A) La- 29°57'25.724"N, Lo - 78° 41'1.886"E (B) La- 29°57'23.811"N, Lo - 78°41'2.417"E

	(C) La- 29°57'24.162"N,, Lo - 78° 41'4.912"E (D) La- 29°57'21.755"N, Lo - 78° 41'8.853"E
<b>Mining Lease Area</b>	2.272 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/125944/2019 on dated 18th November, 2019 by project proponent. The details of the project are given below:-

S.No	Details	Reply
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>2714/VII-1/2018/35 KHA/2018, dated 7 DECEMBER 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 2520/m0 [k0/Ekk0Iyku/ikSM+h Xk<+oky+ /2018-19. Date: 11-02-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	2,62,425 Tons in five (5) years
9	Estimate Quantity	52,485 TPA
10	Green Belt Area	Afforestation – <b>1500 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	509.210 mRL – 504.546 mRL
13	Maximum Height and Width of Benches/pit	Height – 1.5m, Width – 2.0m to 5m
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Nayar River
16	Project Cost	Rs. 45,58,000.00
17	CER Cost	Rs. 91,160.00
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by I.T Cell of Forest Department.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 2500 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-

2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-3**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 4**

<b>Site Details</b>	Village - Rampur Raighati Ahatmal, Tehsil – Lakshar, District- Haridwar.
<b>Name &amp; Address of Proponent</b>	Shri Arjun Singh, S/o Shri Bhagat Singh, R/o- Village- Bhoud, Purwal Gaon, Patti Hindav Tehri Garhwal
<b>Coordinates</b>	(A) La- 29°43'53.980"N, Lo - 78° 11'42.605"E (B) La- 29°43'57.048"N, Lo - 78° 11'44.425"E (C) La- 29°43'55.373"N, Lo - 78° 11'50.100"E (D) La- 29°43'52.241"N, Lo - 78° 11'47.958"E
<b>Mining Lease Area</b>	0.640 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126018/2019 on dated 19<sup>th</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S.No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>2454/VII-1/2018/02(106)/18,</b> <b>Dated 07-12- 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 501/ m0 [k0 / Ekk0 Iyku / uSfurky+ /2016-17. Date: 10-06-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	1,87,000 Tons in five (5) years
9	Estimate Quantity	37,400 TPA
10	Green Belt Area	Afforestation – <b>1500 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	189.650 mRL – 187.980 mRL
13	Maximum Height and Width of Benches/pit	Height – 1.5m, Width – 2.0m to 5m
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Ganga River
16	Project Cost	Rs. 44,14000.00
17	CER Cost	Rs. 88,280.00
18	Cluster Certificate	Submitted and found some ambiguity, should be revised.
19	Ecological Sensitivity Map	Not Submitted

The explanation in the cluster certificate given by Deputy Director Mining, Haridwar vide letter no- 380/Bhu.Khani.Ikayi/Haridwar-2019 dated- 15-11-2019 seems to be contradictory. The 6 mine leases as shown in the certificate with the help of Google Map doesn't specify the distance/periphery.

Hence Deputy Director Mining, Haridwar is requested the again clarify the cluster certificate in light of notification dated- 1-7-2016. Thus the project defer for the next meeting of SEAC.

#### **Proposal – 5**

<b>Site Details</b>	Village- Gabnigaon, Tehsil- Ukhimath, District- Rudraprayag.
<b>Name &amp; Address of Proponent</b>	Shri Dharmendra Singh S/o Shri Manvar Singh R/o- Village- Udaypur, Ward No.2, Tehsil- Ukhimath, District – Rudraprayag
<b>Coordinates</b>	(A) La- 30°25' 6.878"N, Lo - 79° 03' 48.187"E (B) La- 30°25' 6.670"N, Lo - 79° 03' 48.650"E (C) La- 30°25'8.413"N, Lo - 79° 03'49.545"E (D) La- 30°25'11.361"N, Lo -79° 03'55.696"E
<b>Mining Lease Area</b>	0.490 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126113/2019 on dated 19<sup>th</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S.No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>3043/VII-1/2019/2(136)/18, dated 29 January 2019,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 500/ m0 [k0 / Ekk0Iyku / :nziz; kx + /2018-19. Date: 10-06-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	61,600 Tons in five (5) years
9	Estimate Quantity	12,320 TPA
10	Green Belt Area	Afforestation – <b>1000 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	864.924 mRL –861.094 mRL
13	Maximum Height and Width of Benches/pit	Height – 1.5m, Width – 2.0m to 5m
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Mandakini River
16	Project Cost	Rs. 38,36,000.00
17	CER Cost	76,720
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by Deputy Conservator of Forest, Rudraprayag.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.



- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-4**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 6**

<b>Site Details</b>	Vill- Sumerpur, Dist- Rudraprayag
<b>Name &amp; Address of Proponent</b>	Sh. Paramanand S/o Sh. Govind Prasad, Village- Ratura, Tehsil & District- Rudraprayag.
<b>Coordinates</b>	(A) La- 30° 18' 0.547"N, Lo - 79° 01' 7.270"E (B) La- 30° 18' 0.851"N, Lo - 79° 01' 7.060"E (C) La- 30° 18' 2.259"N, Lo - 79° 01' 10.442"E (D) La- 30° 18' 1.961"N, Lo - 79° 01' 10.609"E
<b>Mining Lease Area</b>	0.100 Ha
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126195/2019 on dated 20<sup>th</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S.No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>1081 /VII-1/2018/20kha/2018, dated 10 July 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 1257/ m0[k0 / Ekk0Iyku /:nziz;kx /2018-19. Date: 21-09-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	14250 Tons in five (5) years
9	Estimate Quantity	2850 TPA
10	Green Belt Area	Afforestation – <b>1000 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	622.420 mRL – 621.050 mRL
13	Maximum Height Benches/pit	Height – 1.5m, Width – 2.0m to 5m(±)
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Alaknanda River
16	Project Cost	Rs. 32,60,000.00
17	CER Cost	Rs. 65,200.00
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by Deputy Conservator of Forest, Rudraprayag.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-5**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 7**

<b>Site Details</b>	Village-Purana Srinagar District-Pauri Garhwal.
<b>Name &amp; Address of Proponent</b>	Sh. Praveen Kumar S/o Sh. Khyat Singh, village- Kundi, Post- Kundi, Tehsil- Pauri Garhwal, District- Pauri Garhwal
<b>Coordinates</b>	(A) La- 30°13'10.210"N, Lo - 78° 45'53.393"E (B) La- 30°13'10.344"N, Lo - 78°45'52.185"E (C) La- 30°13'09.250"N, Lo - 78° 45'51.812"E (D) La- 30°13'07.879"N, Lo - 78° 45'50.656"E
<b>Mining Lease Area</b>	1.0 Ha
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126253/2019 on dated 20<sup>th</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S.No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>2710/VII-1/2018/02(112)/2018, dated 20 December 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 2463/m0[k0/Ekk0Iyku/ikSM+h x<+oky+ /2018-19. Date: 07-02-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	1,15,500 Tons in five (5) years
9	Estimate Quantity	23,100 TPA
10	Green Belt Area	Afforestation – <b>1500 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual



12	Mining Shall be Carried Out	507.10 mRL – 505.60 mRL
13	Height of Benches/pit	Height – 1.5m, Width – 2.0m to 5m(±)
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Alaknanda River
16	Project Cost	Rs. 37,42,000.00
17	CER Cost	Rs. 78,840.00
18	Cluster Certificate	Submitted, there is one another mine lease falls in the aerial distance of 500 meter in the periphery of the above mine site and <b>the total of cumulative area of all mine lease area (Sh. Praveen Kumar 1.0 Ha + Shri Rajendra Singh Bisht 3.127 Ha.) is &lt;5 Ha.</b>
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by D.F.O, Pauri Garhwal.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-6**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 8**

<b>Site Details</b>	Village- Badkholu, Tehsil- Pauri, District- Pauri Garhwal.
<b>Name &amp; Address of Proponent</b>	Shri Vijay Joshi S/o Sh. Mangat Ram Joshi, R/o- Village- Chiloli, Patti- Aswalsyu, District- Pauri Gharwal
<b>Coordinates</b>	(A) La- 29°56'10.898"N, Lo - 78° 42'17.010"E (B) La- 29°56'8.157"N, Lo - 78°42'15.237"E (C) La- 29°55'59.937"N, Lo - 78° 42'18.253"E (D) La- 29°55'57.523"N, Lo - 78° 42'39.689"E
<b>Mining Lease Area</b>	4.865 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126406/2019 on dated 20<sup>th</sup> Nov, 2019 by project proponent. The details of the project are given below:-

S.No	Details	Reply
------	---------	-------

1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>1362 /VII-1/2018/41 kha/2018, dated 05 July 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 1256/ m0[k0 / Ekk0Iyku /ikSM+h x<+oky+ /2018-19. Date: 08-01-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	5,61,915 Tons in five (5) years
9	Estimate Quantity	1,12,383 TPA
10	Green Belt Area	Afforestation – <b>1500 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	542.40 mRL – 552.00 mRL
13	Maximum Height and Width of Benches/pit	Height – 1.5m, Width – 2.0m to 5m(±)
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Nayar River
16	Project Cost	Rs. 37,42,000.00
17	CER Cost	Rs. 74,840.00
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by Deputy Conservator of Forest, Pauri Garhwal.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 4000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-7**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 9**

<b>Site Details</b>	Village- Nagrasu, Tehsil & Rudraprayag
<b>Name &amp; Address of Proponent</b>	Shri Vinod Negi S/o Sh. S. S. Negi, Village- Mayali, Tehsil & District- Rudraprayag

<b>Coordinates</b>	(A) La- 30°18' 09.983"N, Lo - 79° 06' 13.071"E (B) La- 30°18' 09.901"N, Lo - 79° 06' 12.500"E (C) La- 30°18' 12.533"N, Lo - 79° 06' 11.997"E (D) La- 30°18' 12.612"N, Lo - 79° 06' 12.540"E
<b>Mining Lease Area</b>	Area- 0.121 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126465/2019 on dated 21<sup>st</sup> Nov, 2019 by project proponent. The details of the project are given below:-

S.No	Details	Reply
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>1078/VII-1/2018/17(kha)/18, dated 29 May 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 228/ m0 [k0 / Ekk0 Iyku / :nziz;kx + /2018-19. Date: 09-05-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	17.245 Tons in five (5) years
9	Estimate Quantity	3,449 TPA
10	Green Belt Area	Afforestation – <b>1000 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	684.90 mRL – 683.20 mRL
13	Maximum Height of Benches/pit	Height – 1.5m, Width – 2.0m to 5m(±)
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Alakhnanda River
16	Project Cost	Rs. 31,16,000.00
17	CER Cost	Rs. 62,320.00
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by Deputy Conservator of Forest, Rudraprayag.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-8**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 10**

<b>Site Details</b>	Village - Chota Maroda, Tehsil-Lansdowne, District- Pauri Garhwal
<b>Name &amp; Address of Proponent</b>	Shri Vinod Singh Negi S/o Prem Singh Negi, Village- Bandil, Tahsil- Lansdwone, District- Pauri Garhwal.
<b>Coordinates</b>	(A) La- 30°3'48.753"N, Lo- 78° 35'50.384"E (B) La- 30°3'49.902"N, Lo - 78° 35'50.937"E (C) La- 30°3'50.540"N, Lo - 78° 35'48.859"E (D) La- 30°3'49.403"N, Lo - 78° 35'48.331"E
<b>Mining Lease Area</b>	(Area- 0.640 Ha.)
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/126518/2019 on dated 21<sup>st</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S.No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>1016/VII-1/2018/08KHA/2018, dated 16 May 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 285/ m0 [k0 / Ekk0lyku / ikSM+h x<+oky /2019-20. Date: 15-05-2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	73,920 Tons in five (5) years
9	Estimate Quantity	14,784 TPA
10	Green Belt Area	Afforestation – <b>1500 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	215.00 mRL –218.00 mRL
13	Maximum Height of Benches/pit	Height – 1.5m, Width – 2.0m to 5m(±)
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Nayar River
16	Project Cost	Rs. 31,16,000.00
17	CER Cost	Rs. 62,320.00
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by D.F.O, Kotdwar.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.

- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-9**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Revised Form-1 with actual facts.
- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

### **Proposal - 11**

<b>Site Details</b>	Village- Maithara, Tehsil & District- Bageshwar.
<b>Name &amp; Address of Proponent</b>	Shri Diwan Singh Rautela, Mrs, Durga Dhapola and Shri Pankaj kumar dhapola Maithara, Post- Bhatoda, Bageswar
<b>Coordinates</b>	Latitude: 30° 18' 20.6"N to 30° 18' 29.6" N Longitude: 79° 30' 09.3"E to 79° 30' 20.4" E
<b>Mining Lease Area</b>	3.744 Ha.

The Committee observed that above is a proposal related to seeking Environmental Clearance for mining/extraction of Soapstone in the hilly terrain in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Form 1m, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/127794/2018 on dated 27<sup>th</sup> Nov, 2019 by project proponent. The details of project are given below:-

S.No	Details	Reply
1	New or Ongoing Site	New/fresh
2	Letter of Intent ( <b>Valid up to</b> )	1826/VII-1/35-Soapstone/2016 Dated:16.12.2016 Valid up to six months
3	Mine Plan ( <b>Valid upto</b> )	5 year from deed registration
4	No. of Pits	1
5	Thickness of soil	0.5 m
6	Maximum explorable depth	9 m
7	Balanced undisturbed agriculture land (in Ha.)	As per khasara detail
8	Total Mineable Reserve	84211 Tonnes
9	Estimated Quantity	0.374989 M Tonnes
10	Green Belt area ( <b>Valid up to</b> )	0.2 Ha
11	Method of Mining	Semi- Mechanized
12	Mining Shall be carried out from	Upper level to lower level
13	Height and Width of Benches	3m height, width- 3m
14	Slopes and ultimate face slope	70°
15	Safety Zone	7.5
16	River/Nallah (name)	none
17	Cluster Certificate	Submitted, there are two another mine lease falls in the aerial distance of 500 meter in the periphery of the above mine site and <b>the total of cumulative area of all mine lease area (Shri Diwan Singh Rautela 3.744 Ha. + Shri Ummed Singh Kalakoti 1.327 Ha. + Shri Harish</b>

		<p>Chander Lohani 4.640 Ha) is &gt;5 Ha.</p> <p>But as per the MoEF&amp;CC Notification dated- 1-07-2016 all mine lease area is &lt;5 Ha. According to cluster definition a quarry licenses granted on and after 9th September, 2013 will be count in Cluster. As mentioned two mine lease Shri Ummed Singh Kalakoti-1.327 Ha. Lease deed grant on 15.6.2001 &amp; Shri Harish Chander Lohani 4.640 Ha Lease deed grant on 12.5.2011</p>
18	Ecological Sensitive Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by DFO, Bageshwar.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- No blasting or drilling shall be permitted during mining operation and only hand held tools shall be permitted.
- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 4000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-10**), the committee recommended the above project for grant of Environmental Clearance.

#### **Proposal – 12**

<b>Site Details</b>	Khasra No. 672,674 village- Chamtoli, Distt. Pithoragarh, Uttarakhand
<b>Name &amp; Address of Proponent</b>	M/s Maansarovar Enterprises, Didihat, District-Pithoragarh
<b>Coordinates</b>	(A) La- 29°28'18.823"N, Lo - 80° 9'2.120"E (B) La- 29°28'19.344"N, Lo - 80° 9'2.975"E (C) La- 29°28'19.451"N, Lo - 80° 9'3.529"E (D) La- 29°28'19.495"N, Lo - 80° 9'5.970"E0
<b>Mining Lease Area</b>	1.202 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/45671/2019 on dated 21<sup>st</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S.No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid up to)	<b>1693 /VII-1/2018/61 kha/2018, dated 29 Aug. 2018,</b>
3	Mine plan (Valid up to)	5 Year from date of Execution of Lease Deed Letter No. 284/ m0[k0 / Ekk0lyku / fiFkkSjkk<+



		/2018-19. Date: 15 May 2019
4	No. of Pits	1 Pit
5	Thickness of Soil	Nil
6	Maximum Exportable Depth	1.5m form Surface Bed
7	Balanced Undistributed Agriculture land (in Hac.)	Not Applicable as Entire Lease area is under waste land
8	Total Mineable quantity	74,250 Tons in five (5) years
9	Estimate Quantity	14,850 TPA
10	Green Belt Area	Afforestation – <b>1000 tree plantation</b> in first two years & protection measure proposed for remaining years of the lease.
11	Method of mining	Open cast Manual
12	Mining Shall be Carried Out	606.120 mRL – 596.452 mRL
13	Maximum Height and Width of Benches/pit	Height – 1.5m, Width – 2.0m to 5m
14	Slopes and Ultimate face Slope	45°
15	River/Nallah (Name)	Mahakali River
16	Project Cost	Rs. 36, 42,000.00
17	CER Cost	Rs. 72,840.00
18	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by D.F.O, Pithoragarh.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1500 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-11**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

### **Proposal – 13**

<b>Site Details</b>	Village - Surkaligaon, Tehsil - Dugnakuri, Dist - Bageshwar.
<b>Name &amp; Address of Proponent</b>	M/s Sai Mines and Mineral by Shri Keshar Singh Surkali (Owner) Village - Surkaligaon, P.O. - Saneti, Tehsil - Dugnakuri, Dist – Bageshwar
<b>Coordinates</b>	Latitude: 29° 54' 40.00"N to 29° 54' 47.92" N Longitude: 79° 57' 40.55"E to 79° 57' 29.44" E
<b>Mining Lease Area</b>	2.915 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The Committee observed that above is a proposal related to seeking Environmental Clearance for mining/extraction of Soapstone in the hilly terrain in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report EMP/EIA. The project was submitted vide proposal no. SIA/UK/MIN/45747/2019 on dated 1<sup>st</sup> Nov, 2019 by project proponent by project proponent.

**The committee considered the proposal after EIA/EMP & Public Hearing.** The committee observed that the ToR was issued by the SEAC in the meeting vide no -46/SEAC dated 26-02-2019 and the public hearing was conducted 9-09-2019. The project proponent has now submitted final EIA report consisting of 11 chapters including, description of environment, anticipated environmental impact and mitigation majors, environmental monitoring programme, project benefits, Disclosure of Consultants Engaged EMP etc. The details of the project are given below:-

S.No	Details	Reply
1	New or Ongoing Site	New
2	Letter of Intent <b>(Valid upto)</b>	Valid for 25 years and issued on 16/11/2017
3	Mine Plan <b>(Valid upto)</b>	01-06-2018
4	No. of Pits	01
5	Thickness of soil	Varies from 0.6 to 1.3 m
6	Maximum explorable depth	6m
7	Balanced undisturbed agriculture land <b>(in Ha.)</b>	1.500Ha
8	Total Mineable Reserve	432532.64 MT
9	Estimated Quantity	49000 TONES
10	Green Belt area <b>(Valid upto)</b>	0.249 Ha and valid upto 5 Year
11	Method of Mining	Opencast semi mechanized mine
12	Mining Shall be carried out from	Bottom to top
13	Height and Width of Benches	6.0 m height
14	Slopes and ultimate face slope	Face slope of benches shall be 60° - 65° and the ultimate slope will be 45°
15	Safety Zone	-
16	River/Nallah (name)	Saryu River are at the distance of 7 km away from the project boundary
17	Man Power Requirement	46
18	Cluster Certificate	Submitted, there are Six another mine lease falls in the aerial distance of 500 meter in the periphery of the above mine site and <b>the total of cumulative area of all mine lease area (M/s Sai Mines &amp; Minerals 2.915 Ha. + Shri Manoj Kumar Shah 2.022 Ha, + Shri Hardesh Kumar Shah 2.789 Ha. + Shri Thakur Sing Gariya 2.231 Ha. + M/s Katiyar Mines 139.0 Ha + M/s Katiyar Mines 86.0 Ha &amp; Shri Devesh Srivastava 2.93 Ha.) is &gt;5 Ha.</b>
19	Ecological Sensitivity Map	Submitted & No National Park/Reserve Forest/Sanctuary exist within 10 Km radius of proposed mining Area is mentioned by D.F.O, Bageshwar.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- No blasting or drilling shall be permitted during mining operation and only hand held tools shall be permitted.
- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 2500 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.

- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the EIA/EMP presentation as well as submission of **Public Hearing** document, Committee recommended the project for grant of Environmental Clearance, subject to conditions mentioned in (**Annexure-12**) & subject to submission/clarification of the following documents-

- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius.

#### **Proposal – 14**

<b>Site Details</b>	Khasra no 1420 to 1422, 1427, 1428, 1433 to 1447 & 1457 to 1464 Village: Khir, Tehsil- Joshimath, District- Chamoli.
<b>Name &amp; Address of Proponent</b>	M/s Badrish Swayatt Sahkarita Samiti, Shri Manohar Singh Chauhan Village-Lambgarh, Tehsil-Joshimath, District-Chamoli, U.K.
<b>Coordinates</b>	300 41' 07" N to 300 41' 10.1" N & 790 30' 05.3" E to 790 30' 12.1" E
<b>Mining Lease Area</b>	Area- 0.520 Ha.
<b>Category</b>	B2 & 1(a) enlisted in project /activity as per EIA Notification, 2006

The committee observed that proponents seek Environmental Clearance for extraction of sand/bajri/boulder (River Bed Material) in accordance with the provisions of EIA Notification, 2006 as enlisted in Schedule 1(a). The proponent has applied with detailed project related information in Form 1, Pre Feasibility Report and EMP. The project was submitted vide proposal no SIA/UK/MIN/46343/2019 on dated 21<sup>st</sup> Nov, 2019 by project proponent. The details of the project are given below:-

<b>S. No</b>	<b>Details</b>	<b>Reply</b>
1	New or Ongoing Site	New Site
2	Letter of Intent (Valid upto)	Lease has been granted vide letter I[k% letter letter No. 341/VII-1/2019/5(28)/18 Dated: 27.02.2019 for 6Months.
3	Mine Plan (Valid upto)	The mining plan is approved vide letter no. I[k%- 895 m0[k0@ek0 lyku@peks0@20118&19 fnukad 01@10@2019- for 6 months
4	No. Of Pits	One
5	Thickness of soil	0.20m
6	Maximum explorable depth	1.5m
7	Balanced undisturbed agriculture land (in Ha.)	-
8	Total Mineable Reserve	21849 MT
9	Estimated Quantity (Geological Reserve)	21849 MT
10	Green Belt area (Valid upto)	0.05ha (Outside from the lease area)
11	Method of Mining	Opencast Manual Mining
12	Mining Shall be carried out from	From 458.30mRL-2456.80mRL
13	Height and Width of Benches	1.5m each with 0.75m sub- benches, Width- >15m
14	Slopes and ultimate face slope	Slope- 45°
15	River/Nallah (Name)	Khiro ganga
16	Project Cost	Rs. 34.514 Lakhs
17	CER Cost	Rs. 1.73 Lakhs(5% of the total Proposed Project Cost)
18	EMP Cost	Rs. 8.75 Lakhs
19	Cluster Certificate	Not Applicable
20	Cluster Certificate	Submitted (there is no other mine lease & no cluster formed in the aerial distance of 500 meter in the periphery of the above mine site).
21	Ecological Sensitivity Map	Submitted, given by Deputy Conservator of Forests, Nandadevi National Park, Joshimath.

The Committee after examining the original proposal and presentation by proponent made the following suggestions:

- The committee further directed that mining/extraction of mineral and progressive mine closure should be done as per the approved mine plan.
- The committee suggested that the proponent should provide Eco-friendly toilets for the workforce.
- The committee also suggested that mine site should have well demarcated safety zone i.e. mining operation will not be carried out in the vicinity of 100 m from nearby bridges, educational institution or structures of historical importance.
- The committee desired that proponent should undertake afforestation activities in the buffer zone as well as in the nearby project site. Minimum 1000 plants will be planted in first and second year and maintenance of the plantations will be carried out for the next three years.
- The mining operation would provide local employment and bring economic benefit to local population.
- Photography of the proposed mining site (preferably using Drone) should be done and submitted to SEIAA along with half-yearly compliance report.

Based on the proposal & presentation made by the project proponent, Committee screened the above project under B2 category as per the Notification of MoEF&CC No- 3181 dated- 14-08-2018 & O.M of MoEFF&CC Impact Assessment Division's O.M No- F.No.L-11011/175/2018-IA-II(M) dated-12-12-2018 the following mining project is falling in B2 category. Based on above observations and subject to conditions (**Annexure-13**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- Original Copy of Cluster Certificate.
- Original Copy of Ecological Sensitivity Map of 10 KM radius from project site to Valley of Flower.

#### **Proposal – 15**

<b>Name of the Project</b>	Proposed expansion of "Hotel Pacific" Project by constructing additional Rooms and installation of green insulated DG Set (125 KVA x 01 No.) by M/s Nagalia Hotels
<b>Name &amp; Address of Proponent</b>	M/s Nagalia Hotels Fern Hill Estate, Camel Back Road, Mussoorie, District Dehradun, Uttarakhand.
<b>Whether New/Expansion Project</b>	New
<b>Total Plot Area</b>	4781.00 m <sup>2</sup>
<b>Total Built up Area</b>	1448.18 + 576.17 = 2024.35 Sq.m
<b>Project Category</b>	B2, Orange Category as per Doon Valley Notification

The above proposal seeks Environmental Clearance for expansion of "Hotel Pacific" Project by constructing additional Rooms and installation of green insulated DG Set (125 KVA x 01 No.) by M/s Nagalia Hotels. The project was submitted vide proposal no SIA/UK/MIS/123704/2019 on dated 7<sup>th</sup> December, 2019 by project proponent. The committee observed that the project falls under Orange Category as per Doon Valley Notification 1989. The project proponent did not turn up for the meeting. Hence committee decided to defer the project for next meeting of SEAC.

#### **Proposal – 16**

<b>Name of the Project</b>	Group Housing project at village-Aamwal tarla khasra no-102 JHA Dehradun.
<b>Name &amp; Address of Proponent</b>	M/s Mussorie Dehradun Authority
<b>Whether New/Expansion Project</b>	New
<b>Total Plot Area</b>	30000 Sqmt
<b>Total Built up Area</b>	37614.68 Sqmt
<b>Project Category</b>	B2, Orange Category as per Doon Valley Notification

The above proposal seeks Environmental Clearance for Group Housing project at village-Aamwal tarla khasra no-102 JHA Dehradun BY M/s Mussorie Dehradun Authority. The project was submitted vide proposal no SIA/UK/MIS/124670/2019 by project proponent. The committee observed that the project falls under Orange Category as per Doon Valley Notification 1989. The

project proponent did not turn up for the meeting. Hence committee decided to defer the project for next meeting of SEAC.

### **Proposal – 17**

<b>Name of the Project</b>	Affordable Dhaulas Housing Project at khasra no. 1065 KHA Village – Dhaulas, Tehsil – Vikasnagar, Dehradun.
<b>Name &amp; Address of Proponent</b>	M/s Mussoorie Dehradun Development Authority.
<b>Whether New/Expansion Project</b>	New
<b>Total Plot Area</b>	13,351.36 m <sup>2</sup>
<b>Total Built up Area</b>	27762.75 m <sup>2</sup>
<b>Project Category</b>	B2, Orange Category as per Doon Valley Notification

The committee observed that above is a proposal seeking Environmental Clearance for Affordable Dhaulas Housing Project at khasra no. 1065KHA Village-Dhaultas Tehsil-Vikasnagar Dehradun Uttarakhand. The committee observed that the project falls under Orange Category as per Doon Valley Notification 1989. The project was submitted vide proposal no SIA/UK/MIS/128643/2019 on dated 30<sup>th</sup> Nov, 2019 by project proponent.

The above proponent has submitted detailed project related information in Form - 1, Form – 1A, Pre-Feasibility Report and Environment Management Plan. The proponent has also submitted related land documents; lay out plan, EMP, Process Flow Chart.

The committee after examining original proposal and presentation made by the proponent and observed following points:-

#### **INTRODUCTION**

Mussoorie Dehradun Development Authority. is planning to develop an Affordable Dhaultas Housing project measuring 2.50 acres at Village: Dhaultas, Khasra No—1065KHA, Tehsil-Vikasnagar, District- Dehradun. The Affordable Dhaultas housing project is designed with well-equipped facilities such as regulated entry/exit well planned infrastructure road, sewage treatment plant, well designed parking area and rainwater harvesting measures.

#### **SITE SELECTION & ALTERNATIVES**

The project site lies in the forest land as per the Master Development Plan 2025. However as per Notice No 774/V2/06(L.U.C) 18/2018 dated 2/05/ 2018 land use of the site has been changed to residential purpose. The land has been granted by Government of Uttarakhand to MDDA vide letter no- 24/V-1/2018-09(NL)/2017.

#### **PROJECT MAGNITUDE**

The Affordable Dhaultas Housing project measures on a net plot area of **10147.76** Sqm (2.50 acres) with built-up area of **27762.75** Sqm. Development of greenbelt have been planned over an area of 1048.97 sq. m. The land has been granted by Government of Uttarakhand to MDDA vide letter no- 24/V-1/2018-09(NL)/2017

#### **PROJECT COST**

The cost of the project is Rs.6916.57Lacs.

#### **POPULATION DENSITY**

**Construction Phase:** During construction phase approximately 150 workers will be employed for construction purpose for whom there will be arrangements for labor huts.

**Operation Phase:-** The total population of the project will be 2189 which include residential, staff & visitor population. Dwelling units for EWS and MIG will be 240 & 168 respectively for the project.

#### **WATER CONSUMPTION**

**Construction Phase:** The water requirement during the construction phase comprises mainly of two parts i.e. fresh water for labourers and treated water for building constructions. It is estimated approx. 10 KLD of fresh water will be required for domestic purpose which will be procured from the local fresh water supplier during the days of construction. About **50 KLD** of water will be required for construction purpose of the project. The treated water requirement will be met by the private water tank / treated water from nearby operational project of MDDA.

**Operation Phase:** During the summer season; it is estimated that the total water demand during the operation phase will be approx. 176 KLD. The fresh water requirement for the Affordable Dhaultas housing project is expected to be approx. 126 KLD, whereas the treated

water requirement will be approx. 50 KLD which includes water requirement for flushing (44 KLD) and horticulture(6 KLD). Fresh water will be procured from Jal Sansthan, Dehradun.

## **WASTEWATER TREATMENT & DISPOSAL**

**Construction Phase:** There will be provision of septic tanks for the wastewater generated from temporary toilets provided within the project site.

**Operation Phase:** During Operational Phase approximately 145KLD of wastewater will be generated from the project which will be treated in the MBBR based Sewage Treatment Plant of 175KLD. It is expected that approximately 123KLD of treated water will be recovered from the STP. STP treated water will be reused in flushing (44KLD) and horticulture (6KLD) rest will be used by MDDA in nearby construction purpose /road side greenery/ parks.

## **GREENBELT DEVELOPMENT**

An area of 1048.97Sqm.(10.34% of net plot area) will be provided for greenbelt development for the Affordable Dhaulas Housing project. The green belt area& avenue plantation will be properly organized and maintained.

## **RAIN WATER HARVESTING**

**Rain Water Harvesting:** 2 no. of recharge pits of size diameter 3.5 m and depth 5 m respectively are proposed.

## **POWER REQUIREMENT**

The power supply shall be supplied by **Uttarakhand Power Corporation Limited**, Dehradun. The maximum demand load of 1200 KW will be proposed for the Affordable Dhaulas housing project. There is provision of 1DG sets of total capacity 250kVA for power back up in the project. The DG sets will be equipped with acoustic enclosure to minimize noise generation and adequate stack height for proper dispersion.

## **SOLID WASTE GENERATION**

During the operation phase, the quantity of solid waste generated from the project is estimated to be 1008 kg per day (@0.5kg per capita per day for residents, @ 0.15 Kg per capita per day for visitors, @0.25 kg per capita per day for staff, and landscape wastes @ 0.2 kg/acre/day). Solid waste will be managed at the site in accordance to Solid Wastes Management Rules, 2016 and amended till date.

Based on above observations and subject to conditions (**Annexure-14**), the committee recommended the above project for grant of Environmental Clearance & subject to submission/clarification of the following documents-

- D.F.O, Mussoorie letter show that the project site is 8.5 KM away from Mussoorie Wildlife Sanctuary need prior approval NBWL has to be taken.
- Original Copy of Ecological Sensitivity Map of 10 KM radius from project site to Rajaji National Park.
- Six Monthly Compliance Report of M/s MDDA Transport Nagar, Sahraanpur Road, Dehradun.

### **Proposal – 18**

<b>Name of the Project</b>	M/s Matangi Rubber Private Limited at Khasra No.1036,1038, & 1039 Selaqui, Vikas Nagar, Dehradun.
<b>Name &amp; Address of Proponent</b>	Environmental Clearance for proposed Installation of Green insulated DG Set (750 KVA X 01 No.) & Thermic Fluid Heater (Capacity- 6.0 Lac Kcal/hr, on standby) in the existing complex for manufacturing of Automotive Rubber Flaps by M/s Matangi Rubber Private Limited at Khasra No.1036,1038, & 1039 Selaqui, Vikas Nagar, Dehradun.
<b>Whether New/Expansion Project</b>	Violation
<b>Total Plot Area</b>	4515.0 m <sup>2</sup> Existing
<b>Project Category</b>	B2, Orange Category as per Doon Valley Notification

The committee observed that above is a proposal seeking Environmental Clearance for proposed Installation of Green insulated DG Set & Thermic Fluid Heater in the existing complex for manufacturing of Automotive Rubber Flaps by M/s Matangi Rubber Private Limited at Khasra No.1036,1038, & 1039 Selaqui, Vikas Nagar, Dehradun. The committee observed that the project



falls under Orange Category as per Doon Valley Notification 1989. The project was submitted vide proposal no SIA/UK/NCP/105725/2019 on dated 29<sup>th</sup> June, 2019 by project proponent.

The above proponent has submitted detailed project related information in Form - 1, Pre-Feasibility Report and Environment Management Plan. The proponent has also submitted related land documents; lay out plan, EMP, Process Flow Chart, DIC registration certificate.

The committee after examining original proposal and presentation made by the proponent and observed following points:-

Sr. No.	Parameters	Description		
	Plant Capacity			
A). Products (Production Capacity - Nos. /Day)				
Sr. No.	Products	Existing	Proposed	Total
1.	Vulcanized Rubber Flap	4300 Nos.	5700 Nos.	10000 Nos.
B). Manpower (Nos.) proposed for Plant operation in General & Shifts to achieve the production capacity.				
1.	Manpower	95	30	125
C). DG Set for Alternate Power				
1.	DG Set	--	750 KVA x 01 No.	750 KVA x 01 No.
D). Heating Source				
1.	Thermic Fluid Heater (Capacity – 6.0 Lac Kcal/hr)	--	01 No.	01 No. (On stand-by)
	Category of Project as per EIA Notification & Amendments	“Orange” as per Doon Valley Notification S.O. 102 (E) Dated 1st February 1989.		
	Proposed Project	Proposed expansion of existing Manufacturing Unit of Automotive Rubber Flaps by M/s Matangi Rubber Private Limited.		
	Total area of the Plant	4515.0 Sq. m Existing		
	Capital Cost	Rs. 350.0 Lacs		
	Location	Khasra No. 1036, 1038 & 1039, Camp Road, Selaqui, Tehsil Vikas Nagar, Dehradun, Uttarakhand.		
	Coordinates of the Site	Latitude: 30°21'31.74"N Longitude: 77°50'26.87"E		
	Water Requirement/Source			
	Water Requirement (KLD)	Total – 22.25 KLD Fresh – 14.75 KLD Recycled – 7.5 KLD		
	Source of water	Ground Water i.e. Bore well		
	Water Break-up	Ind. Activity (Cooling)	:	7.5 KLD
		Miscellaneous	:	3.0 KLD
		Domestic	:	3.75 KLD
		Green-belt	:	8.0 KLD
		Total	:	22.25 KLD
	Waste Water Management	Existing ETP & STP (Capacity – 10.0 KLD & 7.5 KLD respectively).		
	Waste water generation	Ind&Mis. Activities: 3.0 KLD Domestic Activities: 3.0 KLD		
	Mode of Disposal	Reused/Recycled in Green belt for irrigation purpose.		
	Employment generation	Existing – 95 Nos. Proposed – 30 Nos. Total – 125 Nos.		
	Power Supply/ Start up Power	Existing – 500 KVA Proposed – 350 KVA Total – 850 KVA (Sources from UPCL)		
	DG Set	Proposed –750 KVA x 01 No.		
	Thermic Fluid Heater	Proposed –Capacity – 6.0 Lac Kcal/hr (On stand-by)		
	Land form, Land use and land ownership	Private land on Lease by M/s Matangi Rubber Pvt. Ltd. and used as industrial purposes.		

### **SUMMARY FOR ECOLOGICAL DAMAGE AND REMEDIATION/ EMP SUGGESTED**

S. No.	Parameter	Issue	Related Damage	Remediation/EMP Suggested	Estimated Cost of Damage/Remediation
1.0	<b>Raw Water</b>	Use of raw water for domestic and industrial use by existing Manpower	Ground water resources used	Rain water to be Harvested as per CGWA guidelines in the existing premises.	<b>Rs. 3,50,000/-</b> towards Setting-up of the rainwater harvesting facility.
2.0	<b>Waste Water</b>	Domestic wastewater generation	Unit has installed STP of 7.5 KLD and the treated water is being reused in green belt development and unit is operating on ZLD concept. Thus no ecological damage occurred.	Setup of Sewage Treatment Plant and the treated water from STP was used for greenery development	The Sewage Treatment Plant Facility of adequate capacity (7.5KLPD) is already provided. <b>Rs. 25000/-</b> Towards the analysis of Drinking as well as Inlet and outlet STP water quality.
3.0	<b>Air Pollution</b>	Degradation of the ambient air quality due to the operation of DG set and Transportation activity involving movement of vehicles	Negligible Impact as Operation of DG set was rare and limited vehicles with valid PUC certificate are allowed to enter the premises.	Free health check-up camp will be organized.  Measuring Ambient air Quality on regular basis. This will enable knowing incremental pollution.  Insisting on allowing only covered vehicles to transport goods and materials Ensuring only PUC certified vehicles are allowed to work at the site.  Plantation of trees on the boundary of project site	<b>Rs. 1, 00,000/-</b> towards one-time health checkup and <b>Rs. 1, 00,000/-</b> towards regular monitoring of Ambient Air Quality and work zone at project site.  Planting of trees inside the premises <b>Rs.1,00,000/-</b>
4.0	<b>Noise &amp; Vibration</b>	Noise generation due to use of DG set, Vehicle Movement and machine etc.	Negligible impact due to proper acoustic enclosure on DG set and machinery	Personnel Protecting Equipment's (PPE) like ear muff, ear plug, etc shall be provided to workers at site and only PUC certified vehicle shall be used	<b>Rs. 70,000/-</b> towards (PPE) and Analysis Reports.
5.0	<b>Soil / Land</b>	The top soil that is excavated should be saved not only for refilling but also with a view not to loose the stated productive soil by just dumping it outside the	Negligible excavation and filling is only carried out at the time of foundation work for the DG set. The topography of the site is retained.	Storage of excavated soil in a designated place and consumed it for the site leveling and greenery development.	-Nil- The topography of the site is retained. Therefore, there is no remediation plan required.

		premises.			
6.0	<b>Solid Waste</b>	Ensuring segregation of workers municipal waste.	Odor issue, soil/water contamination and health issue may arise at some extent but temporary impact.	Providing a separate storage bin for municipal waste collection and treat through a small onsite composting machine for municipal waste and compost to be used as a soil conditioner	The composting set-up would cost approximately <b>Rs. 50,000/-</b>
7.0	<b>Hazardous Waste</b>	Un-managed dumping, nuisance creation, toxicity generation, health effect	Health effect on workers handling waste and Contamination of soil / water ,	Storage at separate place return of containers to the authorized vendors /recyclers,  Health check-up of workers handling toxic and hazardous materials	Secured intermediate leachate proof facility for storage <b>Rs. 1,00,000/-</b>
8.0	<b>Ecological Environment</b>	Disturbing the Flora and fauna In the vicinity of the area.	The unit is an existing unit in Industrial are and there is no Loss of native flora and aesthetic view	Plantation of trees in and around the project site.	-Nil- Covered in point no. 3.0
9.0	<b>Socio-Economic Environment</b>	Occupational Health and amenities	Negligible Health aspects of the employee and facilities related to hygiene and sanitation.	Providing safety equipment's (PPE), change rooms including drinking water facility as well as bathrooms for the workers	Workers to be provided with R.O. / UV treated water for drinking <b>Rs. 30,000/-</b>

**THUS, TOTAL COST ASSESSMENT RELATED TO ENVIRONMENTAL DEGRADATION AND ITS REMEDIATION AS STATED ABOVE WOULD BE: RS. 9, 25,000/**

#### **1. PART-B–NATURAL & COMMUNITY RESOURCES AUGMENTATION PLAN**

**Table 1 The natural resource augmentation plan with budgetary Estimation**

<b>S. No.</b>	<b>Activity</b>	<b>Budgetary Allocation (Rs.)</b>
<b>A.</b>	<b>NATURAL RESOURCE AUGMENTATION PLAN</b>	
<b>i.</b>	Development of Rain water harvesting and ground water recharge structure in Government School.	<b>2,50,000</b>
<b>ii.</b>	Provision of solar panel lighting in common areas	<b>75,000</b>
<b>iii.</b>	Development and maintenance of greenery for one year in the surrounding area of villages	<b>1,50,000</b>
<b>Sub Total (A)</b>		<b>4,75,000</b>

**Table 2 The community resource augmentation plan with budgetary Estimation**

<b>S. No.</b>	<b>Activity</b>	<b>Budgetary Allocation (Rs.)</b>
<b>B.</b>	<b>COMMUNITY RESOURCE AUGMENTATION PLAN</b>	
<b>B1</b>	<b>Infrastructure development work</b>	
<b>i.</b>	Construction and maintenance of separate toilet blocks for boys & girls in schools @ 50000/Toilet = 2 Toilets	<b>100,000</b>
<b>ii.</b>	Periodical arrangement of Health check-ups: specialized checkups can be planned for different medical specialty, like eyes, skin, dental etc and de-addiction camp @ 50000/Camp = 2 Camps	<b>100,000</b>
<b>Sub Total (B1)</b>		<b>2,00,000</b>
<b>B2</b>	<b>Soft Skill Development Work</b>	

i.	Provision of uniform, notebooks, study materials for economical weak students.	100,000
ii.	E Learning Smart Classes With Projector @ 30000 (Approx.) and one year subscription of online learning Classes @ 45000 (Approx.)	75,000
<b>Sub Total (B2)</b>		<b>1,75,000</b>

**Total fund allocated towards natural and community resource augmentation plan**

**= Sub Total (A) + Sub Total (B1)+Sub Total (B2)**

**= Rs. (475000+200000+175000)**

**= Rs. 8, 50,000/-**

**Summary of total budgetary allocation with respect to violation activity and remediation**

S. No.	Description	Amount (Rs.)
1.	Estimated cost of damage / remediation with respect to ecological aspects	9,25,000/-
2.	Cost estimate for natural resources augmentation plan and Community resources augmentation plan	8,50,000/-
<b>Total (Rs.)</b>		<b>17, 75,000/-</b>

Based on above observations and subject to conditions (**Annexure-15**), the committee recommended the above project for grant of Environmental Clearance.

#### **Proposal – 19**

<b>Name of the Project</b>	Environmental Clearance for Proposed Installation of Hot Mix Plant at Khainupani Compartment no.- 3, in between Km 4.800 to 5.00km, Tehsil – Narendra Nagar, District – Dehradun.
<b>Name &amp; Address of Proponent</b>	M/s M. G. Contractor Pvt. Ltd. Khainupani Compartment No.- 3 Village Khainupani Tehsil Narendra Nagar District Tehri Garhwal.
<b>Whether New/Expansion Project</b>	New
<b>Total Plot Area</b>	0.045 Ha
<b>Project Category</b>	B2, Orange Category as per Doon Valley Notification

The committee observed that above is a proposal seeking Environmental Clearance for Proposed Installation of Hot Mix Plant at Khainupani Compartment no.- 3, in between Km 4.800 to 5.00km, Tehsil – Narendra Nagar, District – Dehradun. The committee observed that the project falls under Orange Category as per Doon Valley Notification 1989. The project was submitted vide proposal no SIA/UK/NCP/124680/2019 on dated 9<sup>th</sup> Nov 2019 by project proponent. The project proponent did not turn up for the meeting. Hence committee decided to defer the project for next meeting of SEAC.

#### **Proposal – 20**

<b>Name of the Project</b>	Environmental Clearance for proposed Installation of Green insulated DG Set. Plot No. 14, Transport Nagar, Saharanpur Road, District Dehradun.
<b>Name &amp; Address of Proponent</b>	Oberai Motors Limited.
<b>Whether New/Expansion Project</b>	Violation
<b>Total Plot Area</b>	4515.0 m <sup>2</sup> Existing
<b>Project Category</b>	B2, Orange Category as per Doon Valley Notification

The committee observed that above is a proposal seeking Environmental Clearance for proposed Installation of Green insulated DG Set at Plot No. 14, Transport Nagar, Saharanpur Road, District Dehradun. The committee observed that the project falls under Orange Category as per Doon Valley Notification 1989. The project was submitted vide proposal no SIA/UK/NCP/130088/2019 on dated 7<sup>th</sup> December, 2019 by project proponent.

The above proponent has submitted detailed project related information in Form - 1, Pre-Feasibility Report and Environment Management Plan. The proponent has also submitted related land documents; lay out plan, EMP, Process Flow Chart, DIC registration certificate.

The committee after examining original proposal and presentation made by the proponent and observed following points:-

Sr.	Parameters	Description
-----	------------	-------------

No.				
A). Service Capacity - (Nos./Month)				
Sr. No.	Particulars	Existing	Proposed	Total
1.	Motor Vehicles Service	500	--	500
B). Manpower (Nos.)				
1.	Manpower	90	--	90
C). DG set for Alternate Power				
1.	DG set	--	100.0 KVA (01 No.)	100.0 KVA (01 No.)
1.	Category of Project as per EIA Notification & Amendments	"Orange" as per Doon Valley Notification S.O. 102 (E) Dated 1 <sup>st</sup> February 1989.		
2.	Proposed Project	The Project is Proposed for Installation of DG set in Motor Vehicles Service Center by M/s Oberai Motors Limited located at Plot No. 14, Transport Nagar, Saharanpur Road, District Dehradun.		
3.	Total area of the Plant	2592.850 Sq.m.		
4.	Capital Cost	Rs. 40.36 Lacs		
5.	Location	Plot No. 14, Transport Nagar, Saharanpur Road, Tehsil: Dehradun, District: Dehradun.		
6.	Coordinates of the Site	Latitude: 30°16'55.20"N Longitude: 77°59'26.40"E		
7.	Water Requirement/Source			
	Water Requirement (KLD)	Total – 7.70 KLD Fresh – 2.70 KLD Recycled – 5.00 KLD		
	Source of water	Jal Nigam Supply		
8.	Water Break-up	Industrial activity (Vehicle Washing) : 3.00 KLD Mis. Activities : 1.00 KLD Domestic : 2.70 KLD Green-belt : 1.00 KLD Total : 7.70 KLD		
9.	Waste Water Management Waste water generation Mode of Disposal	Existing ETP(Capacity –5.0 KLD) Ind. Activities (washing& Misc. activities): 3.60 KLD Proposed STP (Capacity – 5.0 KLD) Domestic Activities: 2.40 KLD Treated water from Ind. activities is being reused in Vehicle washing. Treated water from STP will be reuse in misc. activities & Green belt for irrigation purpose.		
10.	Employment generation	Existing – 90 Nos. Proposed – Nil. Total – 90 Nos.		
11.	Power Supply/ Start up Power	Existing – 89 KVA (Sources from UPCL) Proposed – Nil Total – 89 KVA (Sources from UPCL)		
12.	DG set	Existing – Nil Proposed – 100.0 KVA (01 No.) Total – 100.0 KVA (01 No.)		
13.	Land form, Land use and land ownership	Owned by M/s Oberai Motors Limited.		

Based on above observations and subject to conditions (**Annexure-16**), the committee recommended the above project for grant of Environmental Clearance.

(Dr. R.K. Srivastava)  
Chairman, SEAC

(Dr. P.S. Bihst)  
Member, SEAC

(Dr. B.P Purohit)  
Member, SEAC

(Rajiv Dhiman)  
Member Secretary, SEAC

**Annexure-1**

- 1) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 2) The building plan and structural design of the unit shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- 3) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 4) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- 5) The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 6) All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- 7) The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However air emissions from DG set should comply with CPCB norms by designing stack of adequate height
- 8) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 9) All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- 10) The gaseous emissions (SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- 11) Fugitive emissions in the work zone environment, product, raw materials and storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.
- 12) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- 13) The DG sets shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- 14) The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- 15) All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.
- 16) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- 17) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time



- 18) Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- 19) Training shall be imparted to all employees on safety and health aspects of handling of chemicals. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 20) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- 21) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- 22) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles.
- 23) Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 24) One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation in consultation with State Forest Department. The species should include criterion of fruit bearing and fast growth.
- 25) Solar panel/energy should be encouraged/installed in the premises.
- 26) The project proponent shall undertake in eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- 27) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 28) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data in soft copy to this Authority and regional office of MoEF, Govt of India at Dehradun.

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18)** The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19)** The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20)** The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21)** Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22)** The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23)** The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24)** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19) The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20) The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21) Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22) The project proponent should plant 2500 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23) The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard



- 18) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19) The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20) The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21) Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22) The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23) The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18)** The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19)** The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20)** The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21)** Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22)** The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23)** The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24)** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18)** The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19)** The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20)** The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21)** Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22)** The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23)** The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24)** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19) The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20) The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21) Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22) The project proponent should plant 4000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23) The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----



- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18)** The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19)** The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20)** The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21)** Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22)** The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23)** The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24)** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18) The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19) The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20) The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21) Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22) The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23) The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

1. The legal status of the mining lease area shall remain unchanged and the Environment Clearance shall remain coterminus with lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
2. The mining/extraction of soapstone shall not be done without approved mine plan from designated authority. The mine plan should be revised every 5 years and no fresh mine plan shall be prepared without site inspection by designated authority
3. The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoining pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining. A safety zone of 7.5 mt (surrounding the mine site) shall be left free from mining
4. The mining shall be carried out by **open cast semi mechanized method** without adopting drilling and blasting operation. The use of hand held mechanically driven equipment is permitted. The use of any electrically driven machinery shall be remain prohibited and only hand held tools shall be used for extraction of the mineral
5. Soapstone mining shall be carried out during sunrise to sunset period only. It shall not involve felling of trees and clearance of vegetation. There shall be no permanent construction at the site except temporary erection of first aid room, office, store, drinking water shed, rest shelter etc.
6. The process of mining and quantity of extractable mineral and subsequently progressive mine closure shall be as per the approved mine plan. The mining operation shall be carried out from **upper level to lower level** by formation of benching pattern. The maximum height of benches shall not exceed 1.5 mt and ultimate pit slope shall be kept at 45 degrees
7. The maximum permissible depth for mining of soapstone shall not exceed 6 meter or depth of ground water table whichever is less. During first five years of mining lease the depth of mining shall not exceed 3 meter. Mining beyond 6 meter shall be granted after site visit by SEAC
8. Mining shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season
9. Reclamation of the mine lease area shall be through back filling, stabilization and cultivation. The waste and top soil generated during mining shall be temporarily stacked in external dump which will be subsequently vacated and back filled in mined out pits. The waste generated in the area will be backfilled during rains and land made suitable for cultivation. Back filling shall be done in a retreating manner from **lower level to upper level**. Mining activity and back filling shall be done simultaneously once space is available
10. No disturbance to natural drainage system around the mining lease area shall be done. No mixing of wastes is allowed. The dump site shall be kept away from the nearby nallahs/water bodies and maintained at a distance of at least 100 meters. The external dump shall be protected against slide/slip by adopting suitable mechanical and vegetative measures. Proponent should construct a retaining wall, along the nallah side, with suitable height to protect soil erosion. The construction of toe wall, check dam and planting of grass species/soil binding dwarf species in dump yard shall be done
11. The project proponent shall undertake transportation of mineral from pit head to read head manually or by mule. Further it shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minerals to final destination. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
12. The project proponent shall regulate and maintain record of the quantity of soapstone extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time.
13. There shall be no labour camp in the mining lease area for the labour engaged in mining of soapstone. The labour engaged in mining shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land
14. Proponent should submit surface water quality and ambient air quality monitoring report as committed in EMP, with suitable parameters
15. Under corporate social responsibility proponent should develop community services such as drinking water, education, housing, sanitation, health, safety and medical facilities, public transportation and communication, social welfare etc.
16. The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines

17. Afforestation shall be carried out in nearby Van Panchayat. The species selection shall be site specific and cater to the demand of the Van Panchayat. The concerned district official of State Forest Department shall ensure the compliance. Proponent should make 5 meter dense plantation of shrubs.
18. The Geology and Mining department shall identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
19. The project proponent shall formulate a transparent and unbiased procedure for engagement of laborers for sustainable extraction of the minerals from the mining lease area. The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with relevant Acts/Rules
20. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the No Work Zone in the mine lease area i.e. at least 100mt distance from Nallahs/Water Bodies, bridges, educational institution or structures of historical importance.
21. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard
22. The project proponent shall provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained
23. The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
24. The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project
25. The project proponent should plant 4000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
26. Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
27. The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard



- 18)** The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19)** The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20)** The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21)** Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22)** The project proponent should plant 1500 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23)** The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24)** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

1. The legal status of the mining lease area shall remain unchanged and the Environment Clearance shall remain coterminus with lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
2. The mining/extraction of soapstone shall not be done without approved mine plan from designated authority. The mine plan should be revised every 5 years and no fresh mine plan shall be prepared without site inspection by designated authority
3. The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoining pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining. A safety zone of 7.5 mt (surrounding the mine site) shall be left free from mining
4. The mining shall be carried out by **open cast semi mechanized method** without adopting drilling and blasting operation. The use of hand held mechanically driven equipment is permitted. The use of any electrically driven machinery shall be remain prohibited and only hand held tools shall be used for extraction of the mineral
5. Soapstone mining shall be carried out during sunrise to sunset period only. It shall not involve felling of trees and clearance of vegetation. There shall be no permanent construction at the site except temporary erection of first aid room, office, store, drinking water shed, rest shelter etc.
6. The process of mining and quantity of extractable mineral and subsequently progressive mine closure shall be as per the approved mine plan. The mining operation shall be carried out from **upper level to lower level** by formation of benching pattern. The maximum height of benches shall not exceed 1.5 mt and ultimate pit slope shall be kept at 45 degrees
7. The maximum permissible depth for mining of soapstone shall not exceed 6 meter or depth of ground water table whichever is less. During first five years of mining lease the depth of mining shall not exceed 3 meter. Mining beyond 6 meter shall be granted after site visit by SEAC
8. Mining shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season
9. Reclamation of the mine lease area shall be through back filling, stabilization and cultivation. The waste and top soil generated during mining shall be temporarily stacked in external dump which will be subsequently vacated and back filled in mined out pits. The waste generated in the area will be backfilled during rains and land made suitable for cultivation. Back filling shall be done in a retreating manner from **lower level to upper level**. Mining activity and back filling shall be done simultaneously once space is available
10. No disturbance to natural drainage system around the mining lease area shall be done. No mixing of wastes is allowed. The dump site shall be kept away from the nearby nallahs/water bodies and maintained at a distance of at least 100 meters. The external dump shall be protected against slide/slip by adopting suitable mechanical and vegetative measures. Proponent should construct a retaining wall, along the nallah side, with suitable height to protect soil erosion. The construction of toe wall, check dam and planting of grass species/soil binding dwarf species in dump yard shall be done
11. The project proponent shall undertake transportation of mineral from pit head to read head manually or by mule. Further it shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minerals to final destination. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
12. The project proponent shall regulate and maintain record of the quantity of soapstone extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time.
13. There shall be no labour camp in the mining lease area for the labour engaged in mining of soapstone. The labour engaged in mining shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land
14. Proponent should submit surface water quality and ambient air quality monitoring report as committed in EMP, with suitable parameters
15. Under corporate social responsibility proponent should develop community services such as drinking water, education, housing, sanitation, health, safety and medical facilities, public transportation and communication, social welfare etc.
16. The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines

17. Afforestation shall be carried out in nearby Van Panchayat. The species selection shall be site specific and cater to the demand of the Van Panchayat. The concerned district official of State Forest Department shall ensure the compliance. Proponent should make 5 meter dense plantation of shrubs.
18. The Geology and Mining department shall identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
19. The project proponent shall formulate a transparent and unbiased procedure for engagement of laborers for sustainable extraction of the minerals from the mining lease area. The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with relevant Acts/Rules
20. The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the No Work Zone in the mine lease area i.e. at least 100mt distance from Nallahs/Water Bodies, bridges, educational institution or structures of historical importance.
21. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard
22. The project proponent shall provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained
23. The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
24. The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project
25. The project proponent should plant 2500 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
26. Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
27. The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun

-----X-----X-----

- 1) Legal status of the mining lease area shall remain unchanged and the Environmental Clearance shall remain coterminous with the lease period. The mined lease area shall not be used for any purpose other than that specified in the proposal
- 2) In case of flash flood and river changing its meandering course, then fresh proposal has to be submitted for grant of Environmental Clearance
- 3) The project proponent shall formulate a transparent and unbiased procedure for engagement of labourers for sustainable extraction of the minor minerals from the mining lease area
- 4) The boundary of the mined lease area shall be demarcated on ground by erecting pillars, each inscribed with its serial number, DGPS coordinates, forward and back bearing, and distance from adjoin pillars etc. This demarcation will be ensured by the Revenue Department. A bench mark will be established to monitor depth of the mining
- 5) Extraction of minor minerals shall be restricted to middle half of the width of river bed/mining site after leaving intact the one-fourth of width of the river bed/mining site along its each bank. Breaking of boulders shall not be permitted in the mining lease area
- 6) The collection of minor minerals during a working season shall start from centre of the river/mining site width and shall gradually extend to the boundary of the permissible area so as to ensure maintenance of river geometry. The maximum permissible depth for collection of minor minerals at centre of the river/mining site width shall be fixed at 1.5 meter or up to ground water level whichever is less
- 7) Extraction of minor mineral shall be permissible from 1<sup>st</sup> October of every year to 30<sup>th</sup> June of the subsequent year. It shall be ensured that no mining activity is carried out during the monsoon season. Workers should be advised and protected against flash flood during 1<sup>st</sup> June to 30<sup>th</sup> June and 1<sup>st</sup> Oct to 31<sup>st</sup> Oct during which there may be rains in the hills
- 8) The project proponent has to regulate and maintain record of the quantity of minor minerals extracted during a season. The monitoring shall be ensured by Mines Department/District Administration from time to time
- 9) The mining work will be open-cast and exclusively manual. No mechanical work or drilling/blasting should be involved at any stage. Minor minerals shall be collected manually by using hand tools and use of explosives and heavy machineries for breaking/collection of minor minerals shall be strictly prohibited. The use of J.C.B. shall not be permitted for mining
- 10) The collection time of RBM shall be from sun-rise to sun-set
- 11) The project proponent shall strictly adhere to the norms of Transport Department in refraining from use of polluting and less fuel efficient vehicles for transporting extracted minor minerals. There shall be no over loading of vehicles as against standard norms fixed by Central Government/State Government/Hon'ble Courts from time to time
- 12) There shall be no labour camp in the mining lease area for the labour engaged in collection of the minor minerals. The labour engaged in collection/extraction work shall be provided free fuel wood/alternate source of energy to avoid any pressure on adjoining forest land.
- 13) The proponent shall erect eco friendly mobile toilets for the workforce at site and shall ensure disposal of solid waste as per the existing provisions/rules/guidelines
- 14) The Geology and Mining department shall ensure site specific river training works at the work site to ensure bank protection. A Corpus fund for this purpose will be set up and kept at the disposal of District Magistrate
- 15) The Geology and Mining department should identify an agency for regular/periodical monitoring of quality of ground water of existing hand pumps and tube wells in the vicinity of the mining site
- 16) The project proponent shall ensure that maximum local labour be engaged and hence employment opportunity provided. The project proponent shall follow all safety measures for labour force engaged in accordance with respected Acts/Rules
- 17) The project proponent shall prepare the plan of mining in conformity with the mine lease conditions and the Rules prescribed in this regard thereby clearly delineating the **No Work Zone** in the mine lease area i.e. the distance from the bank of river/mine site to be left un-worked (Non mining area), distance from the bridges etc. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard

- 18)** The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area are not affected.
- 19)** The project proponent shall ensure refraining from leaving behind clothes, personal belongings of labour engaged, polythene, plastic bottles, carton etc or any other solid waste in work site at the end of working season
- 20)** The project proponent will provide protective respiratory devices to workers working in dusty areas and they shall also be provided with adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained.
- 21)** Photography of the proposed mining site as well as the plantation sites undertaken by the project proponent showing GPS coordinates should be done (preferably using Drone) and submitted to SEIAA and regional office of MoEF&CC, Govt of India at Dehradun along with half-yearly compliance report.
- 22)** The project proponent should plant 1000 trees in first 2 years and followed by maintainance in the last 3 years. The plants should be planted in the buffer zone of the mining site and in the blank area near by van panchayats/gram sabha land.
- 23)** The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF&CC, Govt of India at Dehradun
- 24)** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project

-----X-----X-----

- 1.1.** Consent to Establish shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site
- 1.2.** No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 1.3.** The Site Lay out plan and Building plan should have been approved by the concerned Department/Agency of the State Government before work start up at the construction site. The structural design and other aspects of the building shall comply with guidelines of National Building Code. This shall be ensured by concerned Department of State Government/Accredited Agencies
- 1.4.** The building plan and structural design shall comply with requirements of Seismic Zone – IV as outlined in National Building Code
- 1.5.** The topsoil excavated during construction work shall be used for backfilling/landscape development/green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority
- 1.6.** The onsite levelling and dressing should ensure minimal vegetation clearing and soil erosion. If necessary organic mulching should be done to avoid soil erosion. There shall not be any felling of green trees for the purpose of this project
- 1.7.** The disposal of muck should adhere to standards of general safety and health concerns of local people and also it should have no adverse effect on the neighbouring community. The muck shall not be disposed off in adjoining forest areas without meeting requirements of Forest (Conservation) Act, 1980.
- 1.8.** Temporary storage units should be erected in the construction site and transportation of construction materials shall be restricted to non-peak hours. The dust pollution shall be suppressed by regular water sprinkling
- 1.9.** The use of ready mixed concrete/premised concrete, curing agents and other such practices shall be adopted to minimize use of water on site
- 1.10.** All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as such materials leach into ground water.
- 1.11.** The water requirement during construction phase shall be met from regular water supply/private tankers. There shall be no extraction of ground water and water requirement for the project in operational phase shall be met entirely from private tankers. Construction work requiring water shall not be carried out during 30<sup>th</sup> April to 15<sup>th</sup> June in the year
- 1.12.** The soil and groundwater samples shall be tested from accredited agencies and it shall be ensured that they comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 1.13.** DG Sets shall be used only as backup power. The capacity of DG sets shall not exceed capacity 250 KVA and it should have stack height complying with CPCB norms.
- 1.14.** Fixtures of showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices/sensor based control. Dual plumbing system shall be installed separately for fresh water and waste water.
- 1.15.** The use of glass may be reduced by upto 40 percent to reduce the electricity consumption and load on air conditioning. If necessary then use of high quality double glass may be encouraged with special reflective coating in windows.
- 1.16.** The use of LED and such other power saving devices shall be maximized. Common areas and landscape areas shall be illuminated with solar lighting system. At least 10 percent of the total power requirement after completion of construction unit shall be met from solar energy.
- 1.17.** Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, 2006 which is proposed to be mandatory for all air-conditioned spaces while non air-conditioned spaces should have appropriate thermal insulation materials. The U values of the roof, external wall and fenestration shall also meet specifications of ECBC, 2006.
- 1.18.** Rainwater harvesting for roof top and surface run off should be ensured as per the plan submitted. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles. The bore well for rain water recharging should be kept at 5 metres above the highest ground water table
- 1.19.** The storm water management shall be so designed as to avoid discharge of water directly to the forest areas/adjoining locality which may lead to water logging in nearby areas. The storm water shall be put to use for recharging of aquifers and also pond creation within the campus

**1.20.** One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material has to be used during plantation as per standards of State Forest Department.

**1.21.** Acoustic enclosures shall be provided with all construction machineries and DG sets on site complying with Noise Levels of CPCB standards. The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system as approved by UEPPCB.

**1.22.** The construction debris may be used for land fill or disposed through authorized vendors. The Hazardous substances generated during construction activity shall be disposed off as required by Hazardous Waste (Management, Handling) Rules, 1989 (as amended from time to time). Efforts shall be maximized for use of low toxicity substitutes and low VOC materials.

**1.23.** The construction work shall be restricted to Sunrise to Sunset period in a day. Any construction activity beyond this period shall be subject to approval of Competent/Designated Authority from time to time.

**1.24.** The vehicles used at the construction site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.

**1.25.** All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.

**1.26.** Adequate drinking water and sanitation facility has to be provided on site for the workforce. Provision should be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.

**1.27.** The use of plastics during construction activity shall be bare minimum and efforts to use timber substitute materials should be maximized.

**1.28.** The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.

**1.29.** The entire site after construction activities should carry signages of garbage collection points, environment awareness etc.

**1.30.** A STP shall be installed for treating waste water upto permissible standards and complying with parameters of CPCB/UEPPCB guidelines & no treated waste water is allowed to take outside the premises for any uses.

**1.31.** Guidelines of Municipal Solid Waste (Management & Handling) Rules, 2000 (as amended from time to time) should be followed for disposal of solid waste. Two bin collection system for bio degradable and non bio degradable waste should be adopted. Bio degradable waste shall be sent to composting pit and non biodegradable/inert waste disposed off through authorized recyclers. STP sludge shall be dried and used as organic manure.

**1.32.** Energy consumption measures like installation of LED/TFLS for the external lighting area should be ensured. The disposal of used LED/TFLS should be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

**1.33.** DG sets shall be used only in emergency purpose. The use of solar energy and inverter shall be ensured and maximized as backup power.

**1.34.** Solar panel/energy should be encouraged/installed in the premises.

**1.35.** The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines from time to time in force, as applicable to the project.

**1.36.** The project proponent shall also submit six monthly reports on the status of the stipulated E.C. conditions including results of monitored data both in hard copy & soft copy to this Authority and regional office of MoEF, Govt of India

-----X-----X-----



- 1) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 2) The building plan and structural design of the unit shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- 3) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 4) The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989
- 5) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- 6) The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 7) All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- 8) The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However air emissions from DG set should comply with CPCB norms by designing stack of adequate height
- 9) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 10) All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- 11) The gaseous emissions (SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- 12) Fugitive emissions in the work zone environment, product, raw materials and storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.
- 13) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- 14) The DG sets shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- 15) The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- 16) All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.
- 17) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- 18) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time

- 19) Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- 20) Training shall be imparted to all employees on safety and health aspects of handling of chemicals. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 21) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- 22) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- 23) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles.
- 24) Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 25) One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation in consultation with State Forest Department. The species should include criterion of fruit bearing and fast growth.
- 26) Solar panel/energy should be encouraged/installed in the premises.
- 27) The project proponent shall undertake in eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- 28) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 29) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data in soft copy to this Authority and regional office of MoEF, Govt of India at Dehradun.

-----X-----X-----

- 1) Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.
- 2) The building plan and structural design of the unit shall comply with requirements of Seismic Zone – IV as outlined in National Building Code.
- 3) No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.
- 4) The Project Authority shall strictly comply with provisions of Doon Valley Notification, 1989
- 5) During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed off outside the boundaries of project site without approval of Competent Authority.
- 6) The groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.
- 7) All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water
- 8) The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However air emissions from DG set should comply with CPCB norms by designing stack of adequate height
- 9) No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.
- 10) All the hazardous residue and wastes arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.
- 11) The gaseous emissions ( $\text{SO}_x$ ,  $\text{NO}_x$ , CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- 12) Fugitive emissions in the work zone environment, product, raw materials and storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board. Dust / Powder from the formulation process shall be collected by dust extractor.
- 13) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.
- 14) The DG sets shall use Low Sulphur Diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.
- 15) The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with all machineries and DG sets on site complying with Noise Levels as per CPCB standards.
- 16) All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.
- 17) The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non peak hours.
- 18) All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time

- 19) Adequate drinking water and sanitation facility shall be provided on site for the workforce. Provision shall be made for supply of domestic fuel to the workforce so that they do not remain dependent on adjoining forest areas for fuel wood.
- 20) Training shall be imparted to all employees on safety and health aspects of handling of chemicals. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
- 21) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- 22) The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.
- 23) Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and other particles.
- 24) Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
- 25) One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation in consultation with State Forest Department. The species should include criterion of fruit bearing and fast growth.
- 26) Solar panel/energy should be encouraged/installed in the premises.
- 27) The project proponent shall undertake in eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- 28) The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.
- 29) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data in soft copy to this Authority and regional office of MoEF, Govt of India at Dehradun.

-----X-----X-----