

**Minutes of the 446<sup>th</sup> meeting of the State Level Expert Appraisal Committee held on 29/10/2018 at Gujarat Pollution Control Board, Sector 10 A, Gandhinagar.**

The 446<sup>th</sup> meeting of the State Level Expert Appraisal Committee (SEAC) was held on 29/10/2018 at Gujarat Pollution Control Board, Sector 10 A,, Gandhinagar. Following members attended the meeting:

1. *Shri S. C. Srivastav, Vice Chairman, SEAC*
2. *Shri A.K.Muley, Member, SEAC*
3. *Shri V N Patel, Member, SEAC*
4. *Shri R.J.Shah, Member, SEAC*

**1. SOFT MURRUM MINING PROJECT, DIST: RAJKOT**

TOR File NO	Name	S NO	Village	Ta	Dist	Lease area in Ha	ROM	Nearest human habitation	Mineral
SIA/GJ/MIN/75417/2018	MKC Infrastructure Limited	275 Paiki 1	Thana Galol	Jetpur	Rajkot	5.50 Ha (Govt. Land) New	30,000 MT (Permit) One time	Thana Galol: 2.32 km	Soft Murram

The project proponent along with consultant presented the aforementioned proposal before the committee. It is informed that the mine is new and the lease area is Govt. Land. The Proposed excavation for the permit is 30,000 MT. It was mentioned that above proposal does not include blasting and mineral will be removed through open cast mining. Proposal does not involve intersection of ground water table. It was presented that arrangement of water sprinkling will be done during excavation and loading of mineral for transportation. No protected areas/Reserve Forest/Sanctuary exists within 10 Km radius of the proposed lease. Depth of mining will be restricted to 2 meter. Representative of the project proponent mentioned that there is no applicability of cluster situation to the above lease. The above proposal was categorized as B2 as per the amended EIA Notification 2016. Details of surrounding environmental entities are as below:

Ecological Sensitive Areas	Girnar Hills– 22.74
	Gir Forest– 47.94
	Rampara Wild Life Sanctuary– 92.54
Seismic Zone	Zone 3
Nearest Hospital	Thana Galol Health Centre –2.48
Nearest Educational Institutes	GK CK Bosamiya College, Jetpur – 9.13
Nearest water Body	Bhadar Reservoir – 12.23

Details of mining is as under:

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**

Proposed Capacity	30,000 TPA
Method of Mining	Opencast Method
Employment	18
Water Requirement	4 KLD
No. of working days	300
Life of Mine	2 Years

The Soft Murram will be excavated by Mechanized opencast Mining. The Mineral is lying on the sub-surface, therefore, open cast mining has been the obvious choice. Possible environmental impact and mitigation measures

Type of Environmental Impact	Mitigation
Air	<ul style="list-style-type: none"> <li>Water spraying to control micro particles of mineral and dust.</li> <li>Plantation of <i>Azadirachta indica</i> (Neem) as this plant is useful for dust supersession.</li> </ul>
Water	<ul style="list-style-type: none"> <li>Prevent rain/fresh water contamination around the mine site.</li> <li>Pit will be converted to water reservoir so that the water can be used for agricultural purposes later.</li> </ul>
Land	<ul style="list-style-type: none"> <li>Trained / approved transports will be given work for the transportation of the products. .</li> <li>Half the area will be backfilled at the end of mine life, and further plantation will be conducted on the backfilled area..</li> </ul>
Noise	<ul style="list-style-type: none"> <li>Proper maintenance of machinery to reduce noise level</li> </ul>

Budgetary provision of EMP

Sr. No.	Description	Approximate recurring cost per annum (Rs.In lakhs)
1	Air pollution control	2.0
2	Noise pollution control	1.0
3	Occupational health	2.0
4	Plantation	3.0
	Total	8.0

The lessee propose a total no. 20 trees per year to be planted along lease boundary area. The total proposed area for a forestation is 0.20 hectares and survival rate is 80%, therefore 20% more plant will be planted next year. A number of species will be planted suiting to this area of climate conditions like Neem, Sagwan, Banyan, Pilu, Baval etc.

Year	No. Of Plants	Area (In Hect.)	Survival Rate
2018-19	20	0.1	80%
2019-20	24	0.1	80%

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**

TOTAL	44	1.2	
-------	----	-----	--

*Considering anticipated impacts of mining and mitigation measures proposed by the lease holder, committee unanimously decided to recommend the proposal for grant of environmental clearance to SEIAA for the above proposal, subject to the strict implementation of conditions mentioned in standard conditions for Non Sand mining project as approved during 12<sup>th</sup> SEIAA meeting held on 16/09/2017 with following specific conditions mentioned in Office Memorandum of MoEF&CC, New Delhi dated 24th June 2013 for ordinary earth as under*

1. The activity associated with borrowing/excavation of 'soft murrum' for leveling of land surface shall not involve blasting.
2. The borrowing/excavation activity shall be restricted to a maximum depth of 2m below general ground level at the site.
3. The borrowing/excavation activity shall be restricted to 2 m above the ground water table at the site.
4. The borrowing/excavation activity shall not alter the natural drainage pattern of the area.
5. The borrowed/excavated pit shall be restored by the project proponent for useful purpose(s).
6. Appropriate fencing all around the borrowed/excavated pit shall be made to prevent any mishap.
7. Measures shall be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.
8. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.
9. Workers / laborers shall be provided with facilities for drinking water and sanitation.
10. A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth depth of proposed excavation.
11. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.

In additional to above condition, following project based condition shall also be complied with:

- I. There shall be no increase in production more than 30,000 MT as it is a one time permit for excavation of 30,000 MT of soft murrum.
- II. Transportation route for vehicles carrying mineral shall have least minimum pass near human habitation.

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**

III. PP shall pursue CER activities as proposed in declaration.

## 2. SOFT MURRAM MINING PROJECT, DIST: RAJKOT

TOR File NO	Name	S NO	Village	Ta	Dist	Lease area in Ha	ROM	Nearest human habitation	Mineral
SIA/GJ/MIN/75416/2018	MKC Infrastructure Limited	275 Paiki 1	Thana Galol	Jetpur	Rajkot	5.50 Ha (Govt. Land) New	30,000 MTPA	Thana Galol: 2.32 km	Soft Murram

The project proponent along with consultant presented the aforementioned proposal before the committee. It is informed that the mine is new and the lease area is Govt. Land. The Proposed excavation for the permit is 30,000 MT. It was mentioned that above proposal does not include blasting and mineral will be removed through open cast mining. Proposal does not involve intersection of ground water table. It was presented that arrangement of water sprinkling will be done during excavation and loading of mineral for transportation. No protected areas/Reserve Forest/Sanctuary exists within 10 Km radius of the proposed lease. Depth of mining will be restricted to 2 meter. Representative of the project proponent mentioned that there is no applicability of cluster situation to the above lease. The above proposal was categorized as B2 as per the amended EIA Notification 2016. Details of surrounding environmental entities are as below:

Ecological Sensitive Areas	Girnar Hills– 22.74
	Gir Forest– 47.94
	Rampara Wild Life Sanctuary– 92.54
Seismic Zone	Zone 3
Nearest Hospital	Thana Galol Health Centre –2.48
Nearest Educational Institutes	GK CK Bosamiya College, Jetpur – 9.13
Nearest water Body	Bhadar Reservoir – 12.23

Details of mining is as under:

Proposed Capacity	30,000 TPA
Method of Mining	Opencast Method
Employment	18
Water Requirement	4 KLD
No. of working days	300
Life of Mine	3 Years

The Soft Murram will be excavated by Mechanized opencast Mining. The Mineral is lying on the sub-surface, therefore, open cast mining has been the obvious choice. Possible environmental impact and mitigation measures

Type of Environmental Impact	Mitigation
Air	<ul style="list-style-type: none"> <li>Water spraying to control micro particles of mineral and dust.</li> <li>Plantation of <i>Azadirachta indica</i> (Neem) as this plant is useful for dust supersession.</li> </ul>
Water	<ul style="list-style-type: none"> <li>Prevent rain/fresh water contamination around the mine site.</li> <li>Pit will be converted to water reservoir so that the water can be used for agricultural purposes later.</li> </ul>
Land	<ul style="list-style-type: none"> <li>Trained / approved transports will be given work for the transportation of the products. .</li> <li>Half the area will be backfilled at the end of mine life, and further plantation will be conducted on the backfilled area..</li> </ul>
Noise	<ul style="list-style-type: none"> <li>Proper maintenance of machinery to reduce noise level</li> </ul>

Budgetary provision of EMP

Sr. No.	Description	Approximate recurring cost per annum (Rs.In lakhs)
1	Air pollution control	2.0
2	Noise pollution control	1.0
3	Occupational health	2.0
4	Plantation	3.0
	Total	8.0

The lessee propose a total no. 20 trees per year to be planted along lease boundary area. The total proposed area for a forestation is 0.20 hectares and survival rate is 80%, therefore 20% more plant will be planted next year. A number of species will be planted suiting to this area of climate conditions like Neem, Sagwan, Banyan, Pilu, Baval etc.

Year	No. Of Plants	Area (In Hect.)	Survival Rate
2018-19	20	0.1	80%
2019-20	24	0.1	80%
TOTAL	44	1.3	

*Considering anticipated impacts of mining and mitigation measures proposed by the lease holder, committee unanimously decided to recommend the proposal for grant of environmental clearance to SEIAA for the above proposal, subject to the strict implementation of conditions mentioned in standard conditions for Non Sand mining project as approved during 12<sup>th</sup> SEIAA meeting held on 16/09/2017 with following specific conditions mentioned in Office Memorandum of MoEF&CC, New Delhi dated 24th June 2013 for ordinary earth as under*

1. The activity associated with borrowing/excavation of 'soft murrum' for leveling of land surface shall not involve blasting.

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**

2. The borrowing/excavation activity shall be restricted to a maximum depth of 2m below general ground level at the site.
3. The borrowing/excavation activity shall be restricted to 2 m above the ground water table at the site.
4. The borrowing/excavation activity shall not alter the natural drainage pattern of the area.
5. The borrowed/excavated pit shall be restored by the project proponent for useful purpose(s).
6. Appropriate fencing all around the borrowed/excavated pit shall be made to prevent any mishap.
7. Measures shall be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.
8. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.
9. Workers / laborers shall be provided with facilities for drinking water and sanitation.
10. A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth depth of proposed excavation.
11. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.

In additional to above condition, following project based condition shall also be complied with:

- I. There shall be no increase in production more than 30,000 MT as it is a one time permit for excavation of 30,000 MT of soft murrum.
- II. Transportation route for vehicles carrying mineral shall have least minimum pass near human habitation.
- III. PP shall pursue CER activities as proposed.

### **3. SOFT MURRUM MINING PROJECT, DIST: RAJKOT**

TOR File NO	Name	S NO	Village	Ta	Dist	Lease area in Ha	ROM	Nearest human habitation	Mineral
SIA/GJ/MIN/75425/2018	MKC Infrastructure Limited	275 Paiki 1	Thana Galol	Jetpur	Rajkot	5.50 Ha (Govt. Land) New	30,000 MTPA	Thana Galol: 2.32 km	Soft Murrum

The project proponent along with consultant presented the aforementioned proposal before the committee. It is informed that the mine is new and the lease area is Govt. Land. The Proposed excavation for the permit is 30,000 MT. It was mentioned that above proposal does not include blasting and mineral will be removed through open cast mining. Proposal does not involve intersection of ground water table. It was presented that arrangement of water sprinkling will be done during excavation and loading of mineral for transportation. No protected areas/Reserve Forest/Sanctuary exists within 10 Km radius of the proposed lease. Depth of mining will be restricted to 2 meter. Representative of the project proponent mentioned that there is no applicability of cluster situation to the above lease. The above proposal was categorized as B2 as per the amended EIA Notification 2016. Details of surrounding environmental entities are as below:

Ecological Sensitive Areas	Girnar Hills– 22.74
	Gir Forest– 47.94
	Rampara Wild Life Sanctuary– 92.54
Seismic Zone	Zone 3
Nearest Hospital	Thana Galol Health Centre –2.48
Nearest Educational Institutes	GK CK Bosamiya College, Jetpur – 9.13
Nearest water Body	Bhadar Reservoir – 12.23

Details of mining is as under:

Proposed Capacity	30,000 TPA
Method of Mining	Opencast Method
Employment	18
Water Requirement	4 KLD
No. of working days	300
Life of Mine	4 Years

The Soft Murram will be excavated by Mechanized opencast Mining. The Mineral is lying on the sub-surface, therefore, open cast mining has been the obvious choice. Possible environmental impact and mitigation measures

Type of Environmental Impact	Mitigation
Air	<ul style="list-style-type: none"> <li>Water spraying to control micro particles of mineral and dust.</li> <li>Plantation of <i>Azadirachta indica</i> (Neem) as this plant is useful for dust supersession.</li> </ul>
Water	<ul style="list-style-type: none"> <li>Prevent rain/fresh water contamination around the mine site.</li> <li>Pit will be converted to water reservoir so that the water can be used</li> </ul>

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**

	for agricultural purposes later.
Land	<ul style="list-style-type: none"> <li>Trained / approved transports will be given work for the transportation of the products. .</li> <li>Half the area will be backfilled at the end of mine life, and further plantation will be conducted on the backfilled area..</li> </ul>
Noise	<ul style="list-style-type: none"> <li>Proper maintenance of machinery to reduce noise level</li> </ul>

Budgetary provision of EMP

Sr. No.	Description	Approximate recurring cost per annum (Rs.In lakhs)
1	Air pollution control	2.0
2	Noise pollution control	1.0
3	Occupational health	2.0
4	Plantation	3.0
	Total	8.0

The lessee propose a total no. 20 trees per year to be planted along lease boundary area. The total proposed area for a forestation is 0.20 hectares and survival rate is 80%, therefore 20% more plant will be planted next year. A number of species will be planted suiting to this area of climate conditions like Neem, Sagwan, Banyan, Pilu, Baval etc.

Year	No. Of Plants	Area (In Hect.)	Survival Rate
2018-19	20	0.1	80%
2019-20	24	0.1	80%
TOTAL	44	1.4	

*Considering anticipated impacts of mining and mitigation measures proposed by the lease holder, committee unanimously decided to recommend the proposal for grant of environmental clearance to SEIAA for the above proposal, subject to the strict implementation of conditions mentioned in standard conditions for Non Sand mining project as approved during 12<sup>th</sup> SEIAA meeting held on 16/09/2017 with following specific conditions mentioned in Office Memorandum of MoEF&CC, New Delhi dated 24th June 2013 for ordinary earth as under*

1. The activity associated with borrowing/excavation of 'soft murrum' for leveling of land surface shall not involve blasting.
2. The borrowing/excavation activity shall be restricted to a maximum depth of 2m below general ground level at the site.
3. The borrowing/excavation activity shall be restricted to 2 m above the ground water table at the site.
4. The borrowing/excavation activity shall not alter the natural drainage pattern of the area.

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**



5. The borrowed/excavated pit shall be restored by the project proponent for useful purpose(s).
6. Appropriate fencing all around the borrowed/excavated pit shall be made to prevent any mishap.
7. Measures shall be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.
8. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.
9. Workers / laborers shall be provided with facilities for drinking water and sanitation.
10. A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth depth of proposed excavation.
11. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.

In additional to above condition, following project based condition shall also be complied with:

- I. There shall be no increase in production more than 30,000 MT as it is a one time permit for excavation of 30,000 MT of soft murrum.
- II. Transportation route for vehicles carrying mineral shall have least minimum pass near human habitation.
- III. PP shall pursue CER activities as proposed in declaration.

#### **4. SOFT MURRUM MINING PROJECT, DIST: RAJKOT**

TOR File NO	Name	S NO	Village	Ta	Dist	Lease area in Ha	ROM	Nearest human habitation	Mineral
SIA/GJ/ MIN/ 76149/2018	MKC Infrastructure Limited	275 Paiki 1	Thana Galol	Jetpur	Rajkot	5.50 Ha (Govt. Land) New	30,000 MTPA	Thana Galol: 2.32 km	Soft Murrum

The project proponent along with consultant presented the aforementioned proposal before the committee. It is informed that the mine is new and the lease area is Govt. Land. The Proposed excavation for the permit is 30,000 MT. It was mentioned that above proposal does not include blasting and mineral will be removed through open cast mining. Proposal does not involve intersection of ground water table. It was presented that arrangement of water sprinkling will be done during excavation and loading of mineral for transportation. No protected areas/Reserve Forest/Sanctuary exists within 10 Km radius of the proposed lease. Depth of mining will be restricted to 2 meter. Representative of the project proponent mentioned that there is no applicability of cluster situation to the above lease. The above proposal was categorized as B2

as per the amended EIA Notification 2016. Details of surrounding environmental entities are as below:

Ecological Sensitive Areas	Girnar Hills– 22.74
	Gir Forest– 47.94
	Rampara Wild Life Sanctuary– 92.54
Seismic Zone	Zone 3
Nearest Hospital	Thana Galol Health Centre –2.48
Nearest Educational Institutes	GK CK Bosamiya College, Jetpur – 9.13
Nearest water Body	Bhadar Reservoir – 12.23

Details of mining is as under:

Proposed Capacity	30,000 TPA
Method of Mining	Opencast Method
Employment	18
Water Requirement	4 KLD
No. of working days	300
Life of Mine	5 Years

The Soft Murram will be excavated by Mechanized opencast Mining. The Mineral is lying on the sub-surface, therefore, open cast mining has been the obvious choice. Possible environmental impact and mitigation measures

Type of Environmental Impact	Mitigation
Air	<ul style="list-style-type: none"> <li>Water spraying to control micro particles of mineral and dust.</li> <li>Plantation of <i>Azadirachta indica</i> (Neem) as this plant is useful for dust supersession.</li> </ul>
Water	<ul style="list-style-type: none"> <li>Prevent rain/fresh water contamination around the mine site.</li> <li>Pit will be converted to water reservoir so that the water can be used for agricultural purposes later.</li> </ul>
Land	<ul style="list-style-type: none"> <li>Trained / approved transports will be given work for the transportation of the products. .</li> <li>Half the area will be backfilled at the end of mine life, and further plantation will be conducted on the backfilled area..</li> </ul>
Noise	<ul style="list-style-type: none"> <li>Proper maintenance of machinery to reduce noise level</li> </ul>

Budgetary provision of EMP

Sr. No.	Description	Approximate recurring cost per annum (Rs.In lakhs)
1	Air pollution control	2.0

2	Noise pollution control	1.0
3	Occupational health	2.0
4	Plantation	3.0
	Total	8.0

The lessee propose a total no. 20 trees per year to be planted along lease boundary area. The total proposed area for a forestation is 0.20 hectares and survival rate is 80%, therefore 20% more plant will be planted next year. A number of species will be planted suiting to this area of climate conditions like Neem, Sagwan, Banyan, Pilu, Baval etc.

Year	No. Of Plants	Area (In Hect.)	Survival Rate
2018-19	20	0.1	80%
2019-20	24	0.1	80%
TOTAL	44	1.5	

*Considering anticipated impacts of mining and mitigation measures proposed by the lease holder, committee unanimously decided to recommend the proposal for grant of environmental clearance to SEIAA for the above proposal, subject to the strict implementation of conditions mentioned in standard conditions for Non Sand mining project as approved during 12<sup>th</sup> SEIAA meeting held on 16/09/2017 with following specific conditions mentioned in Office Memorandum of MoEF&CC, New Delhi dated 24th June 2013 for ordinary earth as under*

1. The activity associated with borrowing/excavation of 'soft murrum' for leveling of land surface shall not involve blasting.
2. The borrowing/excavation activity shall be restricted to a maximum depth of 2m below general ground level at the site.
3. The borrowing/excavation activity shall be restricted to 2 m above the ground water table at the site.
4. The borrowing/excavation activity shall not alter the natural drainage pattern of the area.
5. The borrowed/excavated pit shall be restored by the project proponent for useful purpose(s).
6. Appropriate fencing all around the borrowed/excavated pit shall be made to prevent any mishap.
7. Measures shall be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.
8. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.

**446<sup>th</sup> meeting of SEAC-Gujarat, Dated 29.10.2018**

9. Workers / laborers shall be provided with facilities for drinking water and sanitation.
10. A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth depth of proposed excavation.
11. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.

In additional to above condition, following project based condition shall also be complied with:

- I. There shall be no increase in production more than 30,000 MT as it is a one time permit for excavation of 30,000 MT of soft murrum.
- II. Transportation route for vehicles carrying mineral shall have least minimum pass near human habitation.
- III. PP shall pursue CER activities as proposed in declaration

#### **5. SILICA SAND MINING PROJECT, DIST: SURENDRANAGAR**

TOR File No	Name of project	S NO	Vill	Ta	Dist	Lease area in Ha	Rate of Mining	Nearest Human Habitation	Mineral
SIA/GJ/MIN/25334/2018	Sun Silica Industry	83 paiki	Vavdi	Chotila	Surn drana gar	31.16 Ha New	15,00,000 MTPA	Vavdi:750 meter	Silica sand

The project proponent could not represent the proposal before the committee. Committee noted that approved mine plan is also not submitted by the PP including status of current year.

After deliberation committee sought following additional information from the Project proponent before deciding for recommendation of TOR to SEIAA. It is decided that after submission of the following details, aforementioned proposal will be considered in one of the upcoming SEAC meeting for further consideration.

1. Duly signed Form 1 along with approved mine plan, prefeasibility report.
2. Shortest aerial distance from the nearest human habitation from the outer periphery of the lease validated by the district geologist.
3. Details of break up of Project cost with details of each component.
4. Man power used during production period.
5. No Objection certification from the DFO regarding mine lease considering location of mine lease with reference to the Eco Sensitive Zone.
6. Letter from department of Industries and Mine validating deemed extension of lease with date of expiry of lease.
7. Details of production considering base year 1993-1994 till current year validated by the district geologist.

Meeting was ended with thanks to Chair.

1 .	<i>Shri S. C. Srivastav, Vice Chairman, SEAC</i>	
2 .	<i>Shri A K Muley, Member, SEAC</i>	
3 .	<i>Shri V N Patel, Member, SEAC</i>	
4 .	<i>Shri R.J.Shah, Member, SEAC</i>	