

### COST BENEFIT ANALYSIS

( As per new guidelines given vide letter No. 7-69/2011-FC( Pt.), dated 1 st August 2017 issued by Ministry of Environment, Forest & Climate Change,GOI,New Delhi)

GHUNGUR-PARAKHANDALE LATERITE ( AREA 49.00 HECTARES) MINE RECCOMENDED TO SHRI BHAIKAVNATH EARTH MOVERS & COMPANY, AT VILLAGE : GHUNGUR, TAL-SHAHUWADI , DISTRICT- KOLHAPUR.

A) Case under which a cost- benefit analysis for forest Diversion are required.

No. 4- applicable 49.00 Ha. Diversion of forest land use for purpose of Mining activities

B) Total forest Losses to be accrue as per appendix shown in Table B.

Parameter No. 1	: Rs. 3, 06,74, 000/-
Parameter No. 2	: Rs. 30,67,400/-
Parameter No. 3	: NIL
Parameter No. 4	: NIL
Parameter No. 5	: Rs. 60.26,400/-

.....  
Total : Rs. 3,97,67,800/

Total forest area required for the Project : 49.00 Hectares.

Loss per Hectare : Rs. 8,11,588/-

C) Total benefits from the Project to accrued in asper appendix shown in

#### Table C.

Parameter No. 1	: Rs. 16,354.00 Lacks.
Parameter No. 2	: Rs. 4,420.00+ 667.24=5,087.24 Lacks.
Parameter No. 3	: Rs. 360.00 Lacks.
Parameter No. 4	: Rs. 600.00 Lacks
Parameter No. 5	: Rs. 60.264 Lacks

.....  
Total : Rs. 22,461.504 Lacks.

Benefited as per Hectares Of the forest land to be acquired : Rs. 458.398 Lacks.

D) Benefit Cost Ratio : 56.48

Thus the project gives positive Benefit Cost Ratio. The monitory return of Project Over the environment losses.

For Shri Bairavnath Earthmovers & Co.

  
Authorised Signatory

  
Deputy Conservator of Forests  
Deputy Conservator of Forests  
Kolhapur Division, Kolhapur.

Table – A : Cases under which a cost – Benefit analysis for forest Diversion  
are required.

No.	Nature of Proposal	Applicable / not applicable	Remarks
1	All categories of proposals involving forest land upto 20 hectares in Plains and upto 5 hectares in hills.	Not applicable	
2	Proposal for defense installation purposes and oil prospecting (prospecting only)	Not applicable	
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	
4	All other proposals involving forest land more than 20 hectares in plains and 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centers, TV towers etc.	Applicable	Forest land area of 49 hectares diverting for Laterite mining activity.

APPENDIX-- TABLE- B: ESTIMATION OF COST OF FOREST DIVERSION.

S.N.	Parameters	Remarks
1	Ecosystem services losses due to proposed Forest Diversion.	Rs. 3,06,74,000/-
2	Loss of animal husbandry Productivity, including loss of fodder.	Rs. 30,67,400/-
3	Cost of human resettlement	Nil
4	Loss of Public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways etc.) on forest land, if these facilities were diverted due to project.	Nil.
5	Possession value of forest land diverted.	Rs. 60,26,400/- (23 Ha. @ Rs. 1,37,500/ Ha. 9.9 Ha. @ Rs. 1,12,500/ Ha. 9.3 Ha. @ Rs. 1,00,000/ Ha. 7.62 Ha. @ Rs. 1,05,000/ H.)

# APPENDIX

**TABLE- C : ESTIMATION BEBEFITS OF FOREST DIVERSION IN CBA.**

S.N.	Parameters	Remarks
1	Increase in productively attribute to the specific project.	Laterite Production : 88.4 Lacks Tones. # Value of Laterite Sale @ Rs. 185 / Tones. (185x88.4): Rs.16,354.00 Lacks.  <b>Total : Rs. 16,354.00 Lack.</b>
2	Benefits to economy due to the specific project.	Revenue accrued to Government (in Lacks)  a)Royalty for Laterite @ 50/Tone for 84.4 Lacks Tones (50x88.4)= 4,420.00 Lacks.  b) C.S.T. for Laterite (29.5x 185x4%)+ 2%=Rs. 667.24 Lacks.  <b>Total = Rs. 5,087.24 Lacks.</b>
3	Number of population benefited due to the Specific Project.	No. of population  200x Rs. 500 x12 x 30* = <b>Rs. 360 lacks.</b>
4	Economic benefits due to of direct and indirect employment due to project.	No. of Employees  20 x 100000 x 30* = <b>Rs. 600 lacks.</b>
5	Economic benefits Due to Compensatory afforestation.	<b>Rs. 60,26,400/- i.e.60,26 Lacks.</b> (23 Ha.@ Rs. 1,37,500/ Ha. 9.9 Ha.@ Rs. 1,12,500/ Ha. 9.3 Ha.@ Rs. 1,00,000/ Ha. 7.62 Ha.@ Rs. 1,05,000/ Ha.)

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A) Case under which a cost- benefit analysis for forest Diversion are required.

No. 4- applicable 49.00 Ha. Diversion of forest land use for purpose of Mining activities

B) Total forest Losses to be accrue as per appendix shown in Table B.

Parameter No. 1	: Rs. 3, 06,74, 000/-
Parameter No. 2	: Rs. 30,67,400/-
Parameter No. 3	: NIL
Parameter No. 4	: NIL
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Total : Rs. 3,97,67,800/

Total forest area required for the Project : 49.00 Hectares.

Loss per Hectare : Rs. 8,11,588/-

C) Total benefits from the Project to accrued in asper appendix shown in

#### Table C.

Parameter No. 1	: Rs. 16,354.00 Lacks.
Parameter No. 2	: Rs. 4,420.00+ 667.24=5,087.24 Lacks.
Parameter No. 3	: Rs. 360.00 Lacks.
Parameter No. 4	: Rs. 600.00 Lacks
Parameter No. 5	: Rs. 60.264 Lacks

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Total : Rs. 22,461.504 Lacks.

Benefited as per Hectares Of the forest land to be acquired : Rs. 458.398 Lacks.

D) Benefit Cost Ratio : 56.48

Thus the project gives positive Benefit Cost Ratio. The monitory return of Project Over the environment losses.

For Shri Bairavnath Earthmovers & Co.

  
Authorised Signatory

  
Deputy Conservator of Forests  
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Table – A : Cases under which a cost – Benefit analysis for forest Diversion  
are required.

No.	Nature of Proposal	Applicable / not applicable	Remarks
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APPENDIX-- TABLE- B: ESTIMATION OF COST OF FOREST DIVERSION.

S.N.	Parameters	Remarks
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3	Cost of human resettlement	Nil
4	Loss of Public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric lines, railways etc.) on forest land, if these facilities were diverted due to project.	Nil.
5	Possession value of forest land diverted.	Rs. 60,26,400/- (23 Ha. @ Rs. 1,37,500/ Ha. 9.9 Ha. @ Rs. 1,12,500/ Ha. 9.3 Ha. @ Rs. 1,00,000/ Ha. 7.62 Ha. @ Rs. 1,05,000/ H.)

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TABLE- C : ESTIMATION BEBEFITS OF FOREST DIVERSION IN CBA.

S.N.	Parameters	Remarks
1	Increase in productively attribute to the specific project.	Laterite Production : 88.4 Lacks Tones. # Value of Laterite Sale @ Rs. 185 / Tones. (185x88.4): Rs.16,354.00 Lacks.  <b>Total : Rs. 16,354.00 Lack.</b>
2	Benefits to economy due to the specific project.	Revenue accrued to Government (in Lacks)  a)Royalty for Laterite @ 50/Tone for 84.4 Lacks Tones (50x88.4)= 4,420.00 Lacks.  b) C.S.T. for Laterite (29.5x 185x4%)+ 2%=Rs. 667.24 Lacks.  <b>Total = Rs. 5,087.24 Lacks.</b>
3	Number of population benefited due to the Specific Project.	No. of population  200x Rs. 500 x12 x 30* = <b>Rs. 360 lacks.</b>
4	Economic benefits due to of direct and indirect employment due to project.	No. of Employees  20 x 100000 x 30* = <b>Rs. 600 lacks.</b>
5	Economic benefits Due to Compensatory afforestation.	<b>Rs. 60,26,400/- i.e.60,26 Lacks.</b> (23 Ha.@ Rs. 1,37,500/ Ha. 9.9 Ha.@ Rs. 1,12,500/ Ha. 9.3 Ha.@ Rs. 1,00,000/ Ha. 7.62 Ha.@ Rs. 1,05,000/ Ha.)

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A) Case under which a cost- benefit analysis for forest Diversion are required.

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B) Total forest Losses to be accrue as per appendix shown in Table B.

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Total : Rs. 3,97,67,800/

Total forest area required for the Project : 49.00 Hectares.

Loss per Hectare : Rs. 8,11,588/-

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Parameter No. 1	: Rs. 16,354.00 Lacks.
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Total : Rs. 22,461.504 Lacks.

Benefited as per Hectares Of the forest land to be acquired : Rs. 458.398 Lacks.

D) Benefit Cost Ratio : 56.48

Thus the project gives positive Benefit Cost Ratio. The monitory return of Project Over the environment losses.

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