

COST BENEFIT ANALYSIS

PARAMETER FOR EVALUATION LOSS OF FOREST HAS BEEN ACCORDED FOR A PERIOD OF 50 YEARS AS PER GOVERNMENT DIRECTIVES.

Name of project : **GREEN FIELD AIRPORT AT CHANDRAPUR.**
 Quantum of forest land applied for : 75.24 Ha.
 Division : Central Chanda Division , Chandrapur (MS)

1.	<u>Forest Loss Calculations</u> Present NPV for 1 Ha of forest land Present NPV for 75.24 Ha forest land. Rate of C.A. for 1 Ha of forest land Value of C.A. for 75.24 Ha forest land Total loss.	=6.26 Lakh =75.24X 6.26 =471.00 Lakh =6.9529 Lakh (2020-21) =75.24 X 6.9529 =523.1362 Lakh = 994.136 Lakh
2.	Loss of animal husbandry productivity including loss of fodder	There is no any loss of animal husbandry productivity.
3.	Loss of human re-settlement	Due to diversion of forest land in this project, there is no loss involved on account of human resettlement.
4.	Loss of public facilities and administrative infrastructure (roads, buildings, schools, dispensaries, electric line, railway, etc) on forest land or which would require forest land if these facilities were diverted due to this project.	No administrative infrastructures such as roads, buildings, schools, dispensaries, electric line, railway, etc are affected due to diversion of forest land to this project .There will be no loss involved on this account.
5.	Environmental losses (soil erosion effect on hydrological cycle, wild life habitat, microclimate, upsetting of geological balance) the project - 0.4	The details of environmental losses are determined as per given thumb rule for the forest area required for the project and are as follows: i) Density of the forest – 0.4 ii) Average density for the area Proposed to be acquired for iii)Environmental value per hectare for density 1.0 (Rs in Lakh) – 126.74Lakh iv)Environmental loss per hectare for forest of density to be acquired (Rs in Lakh) – $0.4 \times 126.74 =$ 50.696 Lakh v)Total forest area required for the project – 75.24 Ha vi)Total environmental loss for the forest area to be acquired for the project – $75.24 \times 50.696 =$ 3814.367 lakh
6.	Suffering of oustees.	There will not be any losses on this account as diversion of the forest land to this project will not affect any house or structure.

Place : Chandrapur
 Date : 14/01/2020



(Signature)

Ashok P. Bhurawat
Prop-RISHABH META ISPAT
 (Authorized Signatory-for-
 Forest Clearance- Greenfield Airport Chandrapur, **MADC**)

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PARAMETER No. 4 Loss of public facilities and administrative infrastructure.	No public facility and administrative Infrastructure like road, etc exists on forest land which is proposed to be diverted in this project.	Nil	Nil
PARAMETER No. 5 Environmental losses.	Average Density of forest area proposed to be Acquired for the project is 0.4 Environmental value per Ha for average density (0.4)considering @ Rs.126.74 Lakh per Ha.	75.24 X 0.4 X 126.74 =3814.367Lakh	3814.367X50= 190718.352 Lakh
PARAMETER No. 6 Suffering to oustees.	No human habitation exist on forest land proposed to be diverted, hence no loss on account of suffering to oustees from forest land.	Nil	Nil
Grand Total		Rs. 3945.283 Lakh	Rs. 197264.15 Lakh

Place : Chandrapur
Date : 14/01/2020



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COST BENEFIT ANALYSIS

II CALCULATION OF BENEFITS

PARAMETERS FOR EVALUATION OF BENEFIT

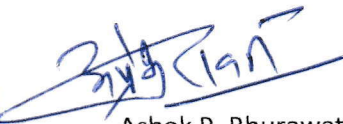
(Not withstanding loss of forest)

SR No	Parameters	Evaluation benefits	Qualified in Monitory terms per annum	Qualification of Benefit in Monitory terms Connected to the period (50yrs)evaluation of cost benefit ratio
1.	Increasing of productivity Attributed to specific project.	Estimated passenger traffic 104832 per annum	-----	-----
2.	Benefit of Company	<p>a) Cost of the air ticket PSF of Rs 222 per embarking passenger is charged by the Airlines.</p> <p>b) Rs 5 towards airline operator collection charges</p> <p>c) Rs 130 is to be treated as security component and earmarked for meeting</p> <p>d) Rs 87 per embarking passenger has been considered as the airport operator's</p> <p>Lease rentals for space in the terminal building</p> <p>e) Commercial activities land space of 173,600 Sq / mtr available X lease rental Rs 3,690 sq. m. / p. a.</p> <p>f) Rental for space in ATC control tower 140 sq. m. of air conditioned space X lease rental Rs 3,690 sq. m. / p. a.</p> <p>g) 173 sq. m. of air conditioned space X lease rental Rs 3,690 sq. m. / p. a.</p> <p>h) Other revenue</p> <p>Car parking charges Rs 100 per vehicle</p> <p>i) Advertisement revenue Rs 10 Lakh per annum</p>	<p>232.727</p> <p>5.2411</p> <p>136.281</p> <p>91.204</p> <p>.</p> <p>6405.84</p> <p>5.166</p> <p>6.384</p> <p>73.382</p> <p>10.00</p>	<p>11636.352</p> <p>262.08</p> <p>6814.08</p> <p>4560.192</p> <p></p> <p>320292.00</p> <p>258.30</p> <p>319.185</p> <p>3669.12</p> <p>500.00</p>

3.	Population benefited	Population is indirectly benefited from the projects direct and indirect employment gained by people taking 5 as the average size of family	Nil	Nil
4.	Employment potential	Around 600 – includes mix of skilled and unskilled labours. Upon completion of the project, the employment is likely to grow.	Rs.2343.20 Lakh	Rs.117160 Lakh
5.	Cost of Acquisition of Facility on non forestland wherever feasible.	As per Ministry of Civil Aviation's (MOCA) guidelines, Airport Authority of India (AAI) has the sole authority to decide on locations and prepare prefeasibility of Greenfield airport. The location as finalized by AAI have been provided to MADC to further plan, design and develop the airport at Chandrapur and alternate site is not feasible. Compensatory afforestation 76.06 Ha. X 750000	570.45	28522.500
6.	Loss of (a)Agricultural and (b) husbandry Production due To diversion of forest land.	A)Agricultural–Nil B)Animal husbandry –Nil	Nil	Nil
7.	Cost of Rehabilitation of displaced persons as Different from compensatory Amount given for displacement.	Forest land applied For diversion is devoid Of any human habitation.	Nil	Nil
8.	Cost of supply of Tree fuel wood toWorkers residing In or near forest area during the Period of construction.	The user agency is giving the cost of one . gas cylinder to the Workers for domestic use as such supply of fire wood does not arise.	Nil	Nil
9.	Total		9879.876 Lakh	493993.809 Lakh

Place : Chandrapur
Date : 14/01/2020




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COST BENEFIT ANALYSIS

III CALCULATION OF BENEFIT/ COST RATIO

Total Benefits (As per II calculations) = Rs.493993.809 Lakh

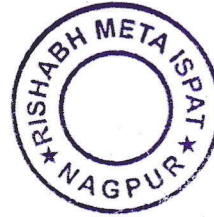
Total Losses (As per I calculations) = Rs.197264.15 Lakh

Hence, Benefit/Cost Ratio = $493993.809 \div 197264.15 = 2.5042$

Thus, the project gives positive Benefit/Cost Ratio. The monetary returns of the project are positive over the environmental losses

Place : Chandrapur

Date : 14/01/2020



A handwritten signature in blue ink, appearing to read "Ashok P. Bhurawat", written over a horizontal line.

Ashok P. Bhurawat

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