ANNEXURE - 5

NAME OF PROJECT:- WIDENING AND STRENGTHENING OF AREK SISODRA PUNI SARBHON ROAD KM 0/0 TO 7/4, TA-BARDOLI, DIST-SURAT.

COST BENIFIT ANALYSIS

District	Road	Length (m)	Width (m)	Area (Ha)
Surat	AREK SISODRA PUNI SARBHON ROAD KM 0/0 TO 7/4	7400	0.75 m (on RHS)	0.555
		7400	0.75 m (on LHS)	0.555
	1.11			

Sr. No.	Parameter	Description
1	Ecosystem services losses due to proposed forest diversion	NPV towards 1.11 Ha of forest land works out as Rs. 5.67 Lacs (1.11 x 4.38 lacs = 4.82 Lacs)
	(Economic value of loss of eco system services due to proposed forest diversion has been taken as the "Net Present Value (NPV)" of the forest land being diverted as prescribed by the Central Govt. i.e. MoEF&CC. NPV rates taken as 4.38 lacs per Ha under Eco Class IV of Open Density Forest)	
2	Loss of animal husbandry productivity, including loss of fodder	There will be no loss of productivity of livestock due to construction of the road. However as per MoEF guideline same has been taken as 10% of the NPV i.e. Rs. 0.48 Lacs

3	Cost of human	NIL
	resettlement.	As there is no displacement of people.
4	Loss of public facilities and administrative infrastructure	NIL No public and administrative facilities are affected.
5	Possession value of forest land diverted (Taken at 30% of NPV)	30% of NPV as per MoEF guideline is Rs. 1.45 Lacs
6	Cost of suffering to oustees	Nil As there is no displacement of people.
7	Habitat Fragmentation Cost (Taken as 50% of NPV)	50% of NPV as per MoEF guideline is Rs. 2.41 Lacs
8	Compensatory afforestation and soil conservation cost (Arrived at Rs. 2,00,000/- per Ha for double degraded area i.e. 2.708 Ha.)	Rs. 2.0 Lacs/Ha for CA and soil and moisture conservation cost = 2.0 x (1.11 x 2) = 4.44 Lacs
Fotal C		Rs. 13.6 Lacs

Sr. No.	Parameter	Description
		2 0001.
1	Increase in productivity	Cost of the Road is 700.00 Lacs.
	attributed to the project	The project would result in substantial financial and
		social benefits. Increase saving shall accrue in vehicle
		operating and travel costs. The trading of this region
		will get a tremendous boost.
2	Benefits to the economy	700.00 Lacs
	to the specific project.	By infusion of 700.00 Lacs, various sectors like
		manufacturing industry, manpower, engineering,
		transportation etc. will get benefitted.
		Since this figure has already been considered in Sr.
		no. 1, this is not added to the total benefits.
3	No. of population	The talukas and villages near Surat and nearby
	benefitted due to	districts shall be benefitted.
	specific project	
4	Economic benefits due	Approx 33000 man days employment
4		Approx 33000 man days employme

	employment due to project.	
5	Economic benefits due to compensatory afforestation	= 2.00 Lacs/Ha x (1.11 x 2) = 4.44 Lacs
Total	Benefit	Rs. 704.44 Lacs

Cost Benefit Ratio = Total Environment and Forest loss: Project Benefit

Cost Benefit Ratio = Rs. 13.6 Lacs : Rs. 704.44 Lacs

Cost Benefit Ratio = 1:51.79

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