ANNEXURE - 5

NAME OF PROJECT:- STRENGTHENING AND WIDENING OF UNAI-BEDCHIT-BUHARI-VALOD-BAJIPURA- MADHI ROAD K.M. 102/200 TO 120/200 & 123/0 TO 128/0 DIST.- TAPI (WORKING SECTION 102/2 TO 120/2 & 123/0 TO 128/0)

COST BENIFIT ANALYSIS

District	Road	Length (m)	Width (m)	Area (Ha)
Surat	ESH -5 102/2 to 120/2	18000	11.95 m	21.510
	ESH -5 123/0 to 128/0	5000	11.95 m	5.975
		l Area in Ha	2	27.485

Sr. No.	Parameter	Description
1	Ecosystem services losses due to proposed forest diversion	NPV towards 27.485 Ha of forest land works out as Rs. 120.38 Lacs (27.485 x 4.38 lacs = 120.38 Lacs)
	(Economic value of loss of eco system services due to proposed forest diversion has been taken as the "Net	R 378 6 1 mg
	Present Value (NPV)" of the forest land being diverted as prescribed	Literates ervies
	by the Central Govt. i.e. MoEF&CC. NPV rates	The inspect and resumment to the scale of
	taken as 4.38 lacs per Ha under Eco Class IV of Open Density Forest)	operating and travel comes for trading of this resto

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. 12.04 Lacs
3	Cost of human resettlement.	NIL 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. 36.11 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. 60.19 Lacs
8	Compensatory afforestation and soil conservation cost (Arrived at Rs. 2,00,000/- per Ha for double degraded area i.e. 54.97 Ha.)	Rs. 2.0 Lacs/Ha for CA and soil and moisture conservation cost = 2.0 x (27.485 x 2) = 109.94 Lacs
Total C		Rs. 338.66 Lacs

Sr. No.	Parameter	Description
1	attributed to the project	Cost of the Road is 23580 Lacs . 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 to the specific project.	23580 Lacs By infusion of 23580 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 benefitted due to specific project	The talukas and villages near Tapi and nearby districts shall be benefitted.
4	Economic benefits due to direct and indirect employment due to project.	Approx 83500 man days employment
5	Economic benefits due to compensatory afforestation	= 2.00 Lacs/Ha x (27.485 x 2) = 109.94 Lacs
Total Be	nefit	Rs. 23689.94 Lacs

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

Cost Benefit Ratio = Rs. 338.66 Lacs: Rs. 23689.94 Lacs

Cost Benefit Ratio = 1:69.95

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