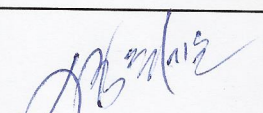


ANNEXURE - IV

COST BENEFIT ANALYSIS (SUNDARGARH FOREST DIVISION)

(A) Parameters for evaluation of loss of forest	a)	Loss of value of timbers, fuel wood & minor forest produce on an animal basis, including loss of man hrs per annum of people who derived livelihood & wages from the forest of these commodities.	
	i)	Loss of value of timbers as per enumeration in 24.424 Ha. Of forest area (1326.26 units) @ Rs. 2286.00 per unit as per value provided by forest office Sundargarh Forest Div. (1326.26 units X Rs. 2286.00 per unit)	30,31,830.36
	ii)	Firewood approx. 150 MT @ Rs. 2000.0 per MT	3,00,000.00
	iii)	Minor forest produce (MEF) :-	
	(aa)	Mahua trees 433 Nos. with average yieldind capacity of 1.5 quintal per tree @ Rs. 1500.00 per quintal per annum.	9,74,250.00
	(bb)	Char trees 508 Nos. @ 5.0 Kgs per tree (total produce is 25.40 quintal) @ Rs. 10000.00 per quintal per annum.	2,54,000.00
	(cc)	Bahada trees 26 Nos. @ 2.0 Quintal per tree (total produce is 52 quintal) @ Rs. 500.00 per quintal per annum.	26,000.00
	(dd)	Harida trees 1 Nos. @ 2.0 Quintal per tree (total produce is 2.0 quintal) @ Rs. 500.00 per quintal per annum.	1,000.00
	(ee)	Neem trees 36 Nos. @ 1.0 Quintal per tree (total produce is 36.0 quintal) @ Rs. 300.00 per quintal per annum.	10,800.00
	(ff)	Mango trees 6 Nos. @ 2.0 Quintal per tree (total produce is 12.0 quintal) @ Rs. 2500.00 per quintal per annum.	30,000.00
	(gg)	Jamun trees 154 No. @ 50.0 Kgs per tree (total produce is 77 Quintal) @ Rs. 1000.00 per quintal/ per annum.	77,000.00
	iv)	Man power requirement approx. 350 man days per year @ Rs. 200.00 per man day	70,000.00
	(b)	Loss of annual husbandary productivity including loss of fodder	
	i)	Animal husbandary	0.00
	ii)	Fodder in 24.424 Ha. @ Rs. 2500.00 per Ha. Per annum.	61,060.00
	(c)	Cost of human resettlement	0.00
	(d)	Loss of public facilities & admision infraustructure	0.00
	(e)	Environmental loss (loss/erosion) effect on hydrological cycle, wild life habbit, microclimate up setting of ecological balance. As per thumb rule prescribed, environmental loss due to the loss of forest area density 1.0 to accure over a period of 50 years is 126.74 lacs. Hence, loss for average density 0.35 for one year. (Rs. 126.74 lacs. X 24.424 Ha. X 0.35/ 50)	21,66,848.43
	(f)	Suffering of ouster -	0.00
	(g)	Average density is 0.35 hence NPV=24.424 x 7.5 lacs	1,83,18,000.00
	(h)	Cost of C A (Approx.)	50,00,000.00
		Total Loss	3,03,20,788.79
		i.e. Rs. (Crores)	3.0321


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