

<u>प्रपत्र- 29</u> Cost benefit ratio

कार्य का नाम :- कार्य का नाम :- सौंग बांध पेयजल परियोजना हेतु वन भूमि हस्तान्तरण प्रस्ताव।

Table-A

1 abic-A						
Particulars	Amount (Lacs)					
of forest diversion						
Eco system services losses due to proposed forest diversion. (As per table B)						
Loss of animal husbandry productivity including loss of fodder. (As per table B)						
Cost of human resettlement. (As per table B)						
Loss of public facilities and administrative infrastructure (Roads, Buildings, Schools, Dispensaries, Electric lines, Railways etc.) on forest land which would require forest land for these facilities was diverted due to this project. (As per table B)						
Possession value of forest land diverted. (As per table B)	197.57					
Cost of suffering to oustees. (As per table B)	Nil					
Habitation Fragmentation cost. (As per table B)						
Compensatory Afforestation and soil and moisture conservation cost. (As per table B)	665.13					
Total Cost of forest diversion (in Lacs)						
Benefits of forest diversion						
In case in productivity attribute to the specific project. (As per table C)	215350.00					
Benefits to economy due to the specific project. (As per table C)	540.00					
Economic benefits due to of direct and in directed employment due to the project. (As per table C)	720.00					
Economic benefits due to Compensatory Afforestation(As per table C)	2275.52					
Total Cost of Benefits of forest diversion (in Lacs)	218885.52					
fore construction of economically viable and social beneficial = $1:1.52$						
	Particulars Forest diversion Eco system services losses due to proposed forest diversion. (As per table B) Loss of animal husbandry productivity including loss of fodder. (As per table B) Cost of human resettlement. (As per table B) Loss of public facilities and administrative infrastructure (Roads, Buildings, Schools, Dispensaries, Electric lines, Railways etc.) on forest land which would require forest land for these facilities was diverted due to this project. (As per table B) Possession value of forest land diverted. (As per table B) Cost of suffering to oustees. (As per table B) Habitation Fragmentation cost. (As per table B) Compensatory Afforestation and soil and moisture conservation cost. (As per table B) Total Cost of forest diversion (in Lacs) Benefits of forest diversion In case in productivity attribute to the specific project. (As per table C) Economic benefits due to of direct and in directed employment due to the project. (As per table C) Economic benefits due to Compensatory Afforestation(As per table C)					

अवर अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश

> ऋषिकेश **देहरादून** वन प्रचार चंद्रानी

सहायक अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश

अधिशासी अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश

वम सेत्राधिकारी रायपुर रंज, मसूरी वन प्रमाग

उप-प्रभागीय वनाधिकारी उप प्रभागीय वनाधिकारी नेवरादन

वेहरादून म्सूरी वन प्रभाग वम क्षेत्रीधिकारी मसूरी रेंज मसूरी वन प्रभाग प्रभाग्रीया विनाधकारिकारी मुसूरी वन प्रभाग, मसूरी

प्रभागीय विशिकारी वेहरादून वन प्रभाग

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<u>Table-B</u>
<u>COST BENEFIT ANAYLSIS (Estimation of cost of forest diversion)</u>

C	COST DENERTY ANATESIS (Estimation of cost of forest diversion)						
Sr. No.	Parameters	Remarks					
1	Eco system services losses due to proposed forest diversion.	(1)Take N.P.V. Rs. 65856000.00 or 658.56 lacs (2)Environmental losses (Soil erosion, affect on hydrological cycle, wild life habitats, micromate up setting of ecological balance = 127.6712x0.40x126.74 = Rs. 6472.42 Lacs (3) Loss of Timber, Fuel wood and minor forest produce i.e affected trees from 127.6712 Hect. has been compensated by project ten time plantation. (as per plantation cost Rs. 665.13 lacs (4) Cost of Nap land and as per detail of RR = Rs. 5000.00 lacs (5) Project cost = 115000.00 lacs Total cost 1 to 5 = Rs. 127796.11					
2	Loss of animal husbandry productivity including loss of fodder.	Rs. 65856000.00 or 658.56 lacs (10% of N.P.V. i.e 65.86 lacs)					
3	Cost of human resettlement.	Cost of rehabilitation as per detail of RR = Rs. 10000.00 lacs					
4	Loss of public facilities and administrative infrastructure (Roads, Buildings, Schools, Dispensaries, Electric lines, Railways etc.) on forest land which would require forest land for these facilities was diverted due to this project.	Utility sifting and relocation Cost as per Detail of RR. = Rs. 5000.00 Lacs					
5	Possession value of forest land diverted.	Rs. 65856000.00 or 658.56 lacs (30% of N.P.V. i.e 197.57 lacs)					
6	Cost of suffering to oustees.	Nil					
7	Habitation Fragmentation cost.	Rs. 65856000.00 or 658.56 lacs (50% of N.P.V. i.e 329.28 lacs)					
8	Compensatory A forestation and soil and moisture conservation cost.	Rs. 66513000.00 or 665.13 lac (Compensatory plantation)					
	Total	Rs. 144053.95 lacs					

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अधिशासी अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश,

वन **क्षेत्राधिकारी** रायपुर **रंज.** नस्रूरी वन प्रभाग

उप-प्रभागीय वनाधिकारी

७प प्रभागीय वनाधिकारी वेहरावून मसूरी वन प्रभाग वनि क्षेत्रीधिकारी मसूरी रेंज मसूरी वन प्रभाग प्रभागीय वनाधिकारी मसूरी वन प्रभाग, मसू



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Table-C

Estimating of benefits of forest diversion in CBA

Sr. No.	Parameters	Remarks			
1	In case in productivity attribute to the specific project.	Revenue from song dam = 215350.00 Lacs (As per Attached Sheet) Benefit for 50 year := 215350.00 lacs			
2	Benefits to economy due to the specific project.	Market development - taking 20 shops are established after construction of Dam — taking minimum benifit per shop per day Rs. 250.00/- For 20 shops per year :- =20x30x250x12=RS.1800000.00 or 18.00 lac Benefit for 50 year :- =18.00x50 = Rs. 540.00 lacs			
3	No. of population benefited due to specific project.	1900000			
4	Economic benefits due to of direct and in directed employment due to the project	Employment generation due to other activities like take 20 people get per month @ Rs. 6000 per month Benefit of 50 year :- 20x6000x12x50=Rs. 72000000.00 or 720.00 lacs			
5	Economic benefits due to Compensatory Afforestation	Economic value as per guideline of ministry i.e 50% Timber @1/2x32170x256x50 = 2058.88 Lacs 50% Fuel wood @1/2x 3385x256x50= 216.64 Lacs Total Rs. 2275.52 Lacs			
	Total 218885.52 la				

अवर अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश

सहायक अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश अधिशासी अभियन्ता अवस्थापना पुर्नवास खण्ड ऋषिकेश

कन केम्ग्राधिकीरा रायपुर रेंज, मसूरी वन प्रभाग उप-प्रभागीय वनाधिकारी

चिप प्रभागीय वनाधिकारी वेहरावून भसूरी वन प्रभाग

वन क्षेत्रीधिकारी मसूरी रंज मसूरी वन प्रभाग भागी विनाधिकारी भागी विनाधिकारी हरादून वन प्रभाग, वहरादून विन प्रभाग,



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			Revenue from					
year	year	Demand Drinking water(MLD)	Demand water Supply (MLD)		ν	Rate of	Revenue	collection
			from tubewell	from existing surface sources	From Song dam	drinking water@10 rs /KL	time period	total (IN LACKS
2021	200	88	42	70	10	2021-31	255.50	
2031	236	124	42	70	10		255.50	
2041	279	127	42	110	10	2031-41	328.50	
2051	335	143	42	150	10	2041-51	474.50	
2061	387	195	42	150	10	2051-61	547.50	
2071	444	252	42	150	10	2061-71	547.50	
						Total	2153.50	

A.E.E

सहायत्व. हिमेयनता-प्रथम > अनुसंधान एवं नियोजन खण्ड, देहरादन F. P.