CALCULATION OF BENEFIT COST RATIO

Name of Scheme: Construction of Road Padri to Bhal Padri.

Total cost of Project: 1900.00 lac

Length of Road: 10.00 km

Population: 15000

PCU's: 150

distence Reduction: 20.00

SAVING IN VEHICLE OPERATION COST

As per IRC norm and guidelines of may 1998 assumingth=VOC X Dist.RedXPCU X 365/2 vehicle operating cost at Rs 7.00/km/PCUthe annual saving Voc may be qualified consedring 50%period for transportation , agricultraland other ecnomic activites

PCU	dist.red	voc	365\2	Saving in VOC
150	20.00	7.00	182.5	38.325 lac

Trevel Time Speed

a) Man Days saved= 10% of population X time X time reduction

0.10	15000.00	5/60	365/8	20.00	114062.5

b) Value of travel time saved= $\frac{\text{Man days saved X 0.65 X 150}}{100000}$ = 111.21

Total benefit= saving in Voc + Time travel saved+ Total earning

406.31 lac

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BHADARWAH

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FINANCIAL VIABILITY
EXISTING LEVEL OF AVERAGE ESTIMATED BENEFITS
SAVING PROGUCES OF DODA DISTRICTS

S.NO	COMMODITY	Price for tonner procured	Prod. 000qtls	% prod. For marketing surplus Qtls	Qty of production for markiting	Add benefits 2% of col.6	Total marketing 6+7	Total earning(in lacs)
1	2	3	4	5	6	7	8	9
1	Rice	18050	300.00	60	180.00	3.60	183.60	3313.98
2	Maize	29050	450.00	60	270.00	5.40	275.40	8000.37
3	Wheat	10750	180.00	60	108.00	2.16	110.16	1184.22
4	Other cereals millets	7000	12.50	50	6.25	0.13	6.38	44.63
5	Pulses	31100	35.00	50	17.50	0.35	17.85	555.14
6	Horticulture produced	15131	130.00	60	78.00	1.56	79.56	1203.82
7	Oil seeds	2300	102.00	80	5.16	0.10	5.26	12.11
8	Vegetable produces and Food crops					0.00	0.00	0.00
9	Fish	3200	0.25	100	0.25	0.01	0.26	0.82
10	Forest Extracts		5070.00	80	4056.00	81.12	4137.12	0.00
11	Khadi & Vill. earning		2400.00	82	1968.00	39.36	2007.36	0.00
12	Raw Silk	1000000	0.02	100	0.02	0.00	0.02	20.40
					20542			

Earning on Account of Project

Name of Road: Construction of Road Padri to Bhal Padri.

Total Length of raoad in Distt. Doda: 800 km

Tota Earning: A x C/B= A C B

20542 10.00 800

c= length of road and B = total length of roads in distt doda

Total Earning= 256.775

J.E

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PCU

s.no	particulars	No/day	Factor	PCU/Day
1	Motercycle	26	0.50	13
2	Passenger car,van	29	1.00	29
3	Truck, Bus	15	3.00	45
4	Agricultral Tractor	10	4.50	45
			Total	132

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PHASING

Frist Year =	2021-22	@	30%	i.e	570.00
Second year=	2022-2023	@	40%	i.e	760.00
third yer=	2023-2024	@	30%	i.e	570.00
				Total	1900.00

BENEFITS

Particulars	1st year	2nd year	3rd year	total
Capital cost	570.00	760.00	570.00	1900.00
Benefits		101.58	406.31	
Discount Factor	0.87	0.76	2.73	
Present cost of worth	495.90	574.56		**1070.46**
Present cost of benefits		76.79	1556.10	**1632.89**

BCR= PWB / PWC = 1632.89 / 1070.46 = 1.53

BCR= 1:1.52

Rajdeep
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