A length of Road PCUS

20542 16.00 265

Name of Road

Construction of Bheli Lal Draman road Km 4th to Km 19th by way of Earthwork & walling(Phase-I).

Toal cost of project

803.26

population

5000

Distance reduction

16.00

PCU

1 00		
120	1	Motercycle
	2	Passenger
		car,van
	3	Truck, Bus
Ser.	4	Agricultral
		Tractor

40	
29	No.
45	
18	

Phasing

frist year= second year Third Year 2022-2023 2023-2024 2024-2025

Doda PWD (R&B) West Sub Division

PND (R&B) Spi. Sub. Division Boda

FINANCIAL VIABILITY EXISTING LEVEL OF AVERAGE ESTIMATED BENEFITS SAVING PRODUCES 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 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	EEE 14
6	Horticulture produced	15131	130.00	60	78.00	1.56	79.56	555.14 1203.82
7	Oil seeds	2300	102.00	80	5.16	0.10	F 26	
8	Vegetable produces and Food crops				3.10	0.00	0.00	0.00
9	Fish	3200	0.25	100	0.25	0.01	0.26	0.02
10	Forest Extracts	off parts	5070.00	80	4056.00	81.12	4137.12	0.82
	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			20.70

Earning on Account of Project

Name of Road

Construction of Bheli Lal Draman road Km 4th to Km 19th by way of Earthwork &

walling(Phase-I).

Total Length of raoad in Distt. Doda:

800 km

Tota Earning: A x C/B=

C

16.00

20542

В

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

Total Earning=

410.84

Assistant Executive Engineer PW(R&B) West Sub Division

Doda

Executive Engineer W(R&B) Spl Sub Division

Doda

PCU

s.no	particulars	No/day	Factor	PCU/Day
1	Motercycle	40	0.50	20
2	Passenger car,van	29	1.00	29
3	Truck, Bus	45	3.00	135
4	Agricultral Tractor	18	4.50	81
			Total	265

Assistant Executive Engineer PW(R&B) West Sub Division

Doda

Executive Engineer
PW(R&B) Spl Sub Division
Doda

CALCULATION OF BENEFIT COST RATIO

Name of Scheme:

Construction of Bheli Lal Draman road Km 4th to Km 19th by way of Earthwork &

walling(Phase-I).

Total cost of Project:

803.26 lac

Length of Road:

16.00 km

Population:

5000 souls

PCU's:

265

distance Reduction:

16.00

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 , agricultral and other ecnomic activites

PCU	dist.red	voc	365	Saving i	n VOC
265	16.00	7.00	365	108.33	lac

Trevel Time Speed

Population:

5000 souls

Assuming 10% population is engaged in taking commercial activities with average time reduction of 5m in /kmwith probability of securing employement at 0.65 and current wages rate at Rs350.00/day the peoportionate saving in travel time shall be as under

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

0.10	5000.00 5/60	365/8	16.00 30416.667

b) Value of travel time saved=<u>Man days saved X 0.65 X 350</u> = 100000

69.20

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

588.37 lac

Assistant Executive Engineer
PW(R&B) West Sub Division

Doda

Executive Engineer
PW(R&B) Spl Sub Division

Doda

PHASING

Frist Year =	2022-2023	@	30%	i.e	240.98
Second year=	2023-2024	@	40%	i.e	321.30
third year=	2024-2025	@	30%	i.e	240.98
				Total	803.26

BENEFITS= 588.37

Particulars	1st year	2nd year	3rd year	4th year	Total
Capital cost	240.98	321.30	240.98	4til yeur	803.26
Benefits	176.51	235.35	176.51	588.37	- Assets
Discount Factor	0.87	0.756	0.658	2.73	
Present cost of worth	209.65	242.91	158.56	1967	611.12
Present cost of benefits	153.56	177.92	116.14	1606.25	2053.88

BCR= <u>PWB</u> <u>2053.88</u> = 3.36 PWC 611.12

BCR= 1:3.36

Assistant Executive Engineer
PW(R&B) West Sub Division
Doda

Executive Engineer
PW(R&B) Spl Sub Division
Doda