

OF WORK: - A.A.A. for const. of link road from Purmandal to Rajoli  
(Length = 2.50 km.) Under NABARD.

|                                                       |   |                   |
|-------------------------------------------------------|---|-------------------|
| Total length of roads in Samba district               | = | 607.80 kms.       |
| Total length of roads under projects                  | = | 2.50 kms.         |
| Total earnings on account of project                  | = | 17.86 x 2.50      |
|                                                       | = | 44.65 Lacs        |
| 2. Reduction in vehicle operating cost                |   |                   |
| i) Assuming reduce distance due to the const. of road |   |                   |
| ii) PCU's                                             | = | 2.50 km           |
| iii) Conversion factor                                | = | 205.00            |
| iv) Income generated                                  | = | 7/km/PCU          |
|                                                       | = | CF x length x PCU |
|                                                       | = | 7.00 x 2.50 x 205 |
|                                                       | = | 0.035 Lacs        |
| 3. Travel time saved                                  |   |                   |
| i) Total length of the road                           | = | 2.50 Km           |
| ii) Population                                        | = | 10000 souls       |

Assuming 10% of the population is engaged in taking commercial activities with average time reduction of 10 min / Km with probability of securing employment at 0.65 and the current wage rate at Rs. 300/ day. The proportionate saving in travel time shall be as under:

$$= \frac{10}{100} \times \text{Population} \times \frac{5}{60} \times \frac{365}{8} \times \text{Av. Length of road} \times 0.65 \times 300$$

$$= \frac{10}{100} \times 10000 \times \frac{5}{60} \times \frac{365}{8} \times 2.50 \times 0.65 \times 300$$

$$= 17.79 \text{ lacs}$$

$$4. \text{ Total benefits} = 44.65 + 0.035 + 17.79$$

$$= 62.47 \text{ Lacs}$$

Asstt. Executive Engineer,  
PWD (R&B) Sub Division,  
Bari-Brahmana.

(Er. K.S. Nathyal)  
Executive Engineer,  
PWD (R&B) Division,  
Samba.

- Sub Base Course :-** 150 mm thick WBM grade-II will be provided in two layers consisting of broken Nallah stone aggregate of 63mm to 45mm size well compacted with 80-100KN Power Road Roller and the voids filled with 13.2mm size screening conforming to clause 404 of MOST specifications 1995.
- c) **Base course :-** 75mm thick WMW grade-III will be laid over sub base course consisting of broken nallah stone aggregate of 22.4mm to 53mm size well compacted with 80-100 KN road roller and voids filled with 11.2mm screening conforming to clause 404 of MOST specifications.
- d) **Premix Carpeting :-** 20mm thick premix carper shall be laid with hot mix plant and paver finisher conforming to clause 509 of MOST specifications as wearing course covered with premix seal coat (Type B) including rolling with 80-100 KN roller conforming to clause 513 of MOST specification 1995.
- e) **R/wall :-** Const. of R/Wall ( Length 130 mtr.) in cement concrete 1:3:6 mix as per Most specification.
- f) **B/wall:-** Const. of B/wall ( Length 150 mtr. ) shall be constructed in 1:3:6 concrete with finished with 12mm thick plaster in 1:4 cement Sand mortar.
- g) **Protection Work:-** Protection work in Down / up stream of the approach road shall be done by way of laying G.I wire knitted crates in layers as per design & necessity at site.
- h) **Hume Pipe Culvert :-** 4 Nos. 0.90mtr. dia H.P Culvert shall be provide to drain off the surface water. Drop and Curtain wall shall be constructed in M10 grade concrete.
- i) **R.C.C Culvert :-** 03 Nos. 2.00mtr. Span RCC culvert and 04 Nos. 3.00mtr. span RCC culvert shall be provide to drain off the surface water.
- j) **Drain:-** Pucca drain ( L=150 mtrs.) shall be provided to drain out the surface water.

(Contd. Page 3rd)

**GOVERNMENT OF JAMMU AND KASHMIR**



**PUBLIC WORKS DEPARTMENT  
(ROADS & BUILDINGS)  
JAMMU**

**APPLICATION FOR ADMINISTRATIVE APPROVAL  
FOR**

**CONST. OF LINK ROAD FROM PURMANDAL TO  
RAJOLI  
(UNDER 'NABARD')**

**(DISTRICT SAMBA)**

**ESTIMATED COST = Rs.277.75 Lacs  
LENGTH = 2.50 KMS**

**YEAR 2016-17**

**CHIEF ENGINEER  
PW (R&B) DEPARTMENT  
JAMMU**

~~old (N-84)~~  
New ending

|                                          |                                                                                                                       |          |         |        |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|---------|--------|
| 4                                        | <u>Pavement:-</u><br>a) 150mm WBM Grade IInd.<br>2500X3.0 = 7500 Sqm.<br>Add 5% for curves = 375<br>Total = 7825 Sqm. | 7825 Sqm | 229/Sqm | 17.92  |
|                                          | b) 75mm WBM Grade IIrd. 2500X3.0<br>= 7500 Sqm.<br>Add 5% for curves = 375<br>Total = 7825 Sqm.                       | 7825 Sqm | 122/Sqm | 9.54   |
|                                          | c) 20mm thick premix carpet.<br>2500X3.0 = 7500 Sqm.<br>Add 5% for curves = 375<br>Total = 7825 Sqm.                  | 7825 Sqm | 322/Sqm | 25.19  |
| Total:-                                  |                                                                                                                       |          |         | 235.39 |
| Add 3% for work charge & Contingencies:- |                                                                                                                       |          |         | 7.06   |

OF WORK: -

A.A.A. for const. of link road from Purmandal to Rajoli  
( Length = 2.50 km. ) Under NABARD.

### COST BENEFIT ANALYSIS

| S.No | Particulars                      | 1st   | 2 <sup>nd</sup> | 3 <sup>rd</sup> | IV-X   | TOTAL  |
|------|----------------------------------|-------|-----------------|-----------------|--------|--------|
| 1.   | Capital cost<br>(Rs.277.75 lacs) | 83.32 | 111.11          | 83.32           | -      | -      |
| 2.   | Benefits                         | 9.37  | 21.86           | 31.23           | 62.47  | -      |
| 3.   | Income factor                    | 0.87  | 0.756           | 0.658           | 2.73   | -      |
| 4.   | P.W.C                            | 72.48 | 83.99           | 54.82           | -      | 211.29 |
| 5.   | P.W.B.                           | 8.15  | 16.52           | 20.54           | 170.54 | 215.75 |

$$BCR = \frac{PWB = 215.75}{PWC = 211.29} = 1.02$$

  
Asstt. Executive Engineer,  
PWD (R&B) Sub Division,  
Bari-Brahmana.

  
( Er. K.S. Nathyal )  
Executive Engineer,  
PWD (R&B) Division,  
Samba.

**OFFICE OF THE EXECUTIVE ENGINEER PWD (R&B) DIVISION  
SAMBA**

The Superintending Engineer,  
PWD (R&B) Jammu / Kathua Circle,  
Jammu.

No:- PWD5/-6666-67

Dated: 03-01-2017

Sub:- **NABARD PROJECT.**

Sir,

Kindly find enclosed herewith the below mentioned project under NABARD supported with Technical report, General Abstract of Cost, estimates and Necessary drawings etc.

| S.No. | Name of work                                                                                   | Estimated Cost<br>(Rs. in lacs) |
|-------|------------------------------------------------------------------------------------------------|---------------------------------|
| 1     | A.A.A. for const. of link road from Purmandal to Rajoli<br>( Length = 2.50 km. ) Under NABARD. | 277.75                          |

All the salient features and specifications to be adopted have fully been explained in the technical report appended herewith.

The Application for Administrative Approval has been prepared as per instruction issued by the Hon'ble M.P. Lok Sabha Jammu Constituency Sh. Jugal Kishore Sharma vide is D.O. letter No.MPLAD/JK/14-15/239 dated. 03-02-2015 ( copy enclosed ).

It is therefore requested that the above project may kindly be forwarded to the higher authorities for early sanction.

Your faithfully,

Encl:-

( Er. K.S. Nathyal )  
Executive Engineer,  
PWD (R&B) Division,  
Samba.

Copy to the:-

1. Chief Engineer PW (R&B) Department Jammu for favour of information please.
2. Assistant Executive Engineer PWD (R&B) Sub- Division Bari-Brahmana for information.
3. Head Draftsman for information.



**COST AND COST:-**

This work is estimated to cost Rs. 277.75 lacs and shall be completed within 02 years subject to accord of A.A.A. & availability of funds and departmental material well in time.

**FINANCIAL DETAIL:-**

The estimate cost of the project is Rs. 277.75 Lacs out of which 90% shall be funded by NABARD in a phased manner and balance by the J&K State Govt.

**FINANCIAL PHASING (NABARD):-**

The year wise financial phasing of the project is as under:-

|         |   |     |   |                 |
|---------|---|-----|---|-----------------|
| 2016-17 | = | 30% | = | Rs. 83.32 Lacs  |
| 2017-18 | = | 40% | = | Rs. 111.11 Lacs |
| 2018-19 | = | 30% | = | Rs. 83.32 Lacs  |

**PROJECT IMPLEMENTATION AND MANAGEMENT :-**

The project will be executed by the R&B wing of the Public Works Department which is well equipped with the technical staff headed by the Chief Engineer at provincial level, Superintending Engineer at the District level, Executive Engineer at the Divisional level and assisted by the Assistant Executive Engineer at the Sub Division level.

**OPERATION AND MAINTENANCE :-**

The operation and maintenance of the project will be carried by the R&B Department on annual basis. Separate funds under Non-Plan are available for the said purpose.

**RISK FACTOR AND PERCEPTION OF DEPARTMENT:-**

The construction of the road is a labour and capital intensive work. The non-availability of labour through out the year might create some delay in completion of the project within the stipulated time but otherwise sufficient labour is available throughout the year and when needed plenty of machinery available with the State Mechanical Department and can be arranged.

(Contd. Page 4th)

## TECHNICAL REPORT

### NAME OF SCHEME:-

Length = 2.50 km. ) Under NABARD.  
A.A.A. for const. of link road from Purmandal to Rajoli

### AUTHORITY:-

Hon'ble M.P. Lok Sabha Jammu Constituency Sh. Jugal Kishore Sharma vide is D.O. letter No.MPLAD/JK/14-15/239 dated.03-02-2015 (copy enclosed).

### PROJECT PROFILE:-

Rajoli Village is situated in block Purmandal of Samba constituency and is about 2.5 km. away from Purmandal bus Stand. Presently there is no road connectivity to the Village and Villagers have to travel on foot to reach Purmandal after crossing various seasonal nallah.

People of the area are facing lot of difficulties even school children can not attend their School. The Village is having population of about 2000 souls incl. adjoining habitants. The people of the area approached Hon'ble M.P. Lok Sabha Jammu constituency Sh. Jugal Kishore Sharma, who was kind enough to listen to their grievances and issued instructions for formulation of DPR for the said road. Accordingly the DPR has been framed for submission to higher authorities.

Keeping in view all the above cited facts it is felt necessary for construction of this road and complete it in shortest possible time. The state government is contributing Rs.27.77 lacs and an amount of Rs.249.92 lacs as Financial Assistance from NABARD is sought to complete the scheme.

### PROPOSALS:-

It has been proposed to upgrade the existing road upto B.T. specification.

### SPECIFICATIONS:-

- a) Earth Work:- Mostly the road shall be made by way of E/work in Cutting / filling at place where ever required.

(Contd. Page 2nd)



**SAVING IN VEHICLE OPERATING COST :-**

Based on the assumed traffic intensity on this road, the saving in vehicle operating cost (VOC) can be quantified as under:-

| S.No | Vehicle Type | No/Day | Conversion Factor | PCUS/Day      |
|------|--------------|--------|-------------------|---------------|
| 1.   | Bus/ Truck   | 4      | 3.00              | 12.00         |
| 2.   | Car/Jeep     | 10     | 1.00              | 10.00         |
| 3.   | Tractor      | 11     | 1.50              | 16.50         |
| 4.   | Motor Cycle  | 30     | 0.50              | 15.00         |
| 5.   | Animal Drawn | 27     | 4.00              | 108.00        |
| 6.   | Cycle        | 75     | 0.50              | 37.50         |
| 7.   | Matador      | 6      | 1.00              | 6.00          |
|      |              |        | <b>TOTAL :-</b>   | <b>205.00</b> |

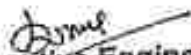
Assuming the saving in VOC @ Rs. 7/- per Km/vehicle at current prices, the annual saving in VOC may be quantified at Rs. 7.00 x 205 x 365 or Rs. 5.24 Lacs.

**GENERATION OF ADDITIONAL EMPLOYMENT :-**

The up-gradation of the roadway will provide employment to the skilled and unskilled labour as the people of the area work as labour and depend on the development activity in the area.

**NON-QUANTIFIABLE SOCIAL BENEFITS:-**

Apart from the quantifiable social benefits the other social benefits of the project will also include improved accessibility to village school, health centres besides creating other employment avenue.

  
Asstt. Executive Engineer,  
PWD (R&B) Sub Division,  
Bari-Brahmana.

  
( Er. K.S. Nathyal )  
Executive Engineer,  
PWD (R&B) Division,  
Samba.

- a/ It is certified that we have inspected the site and are satisfied with the proposal kept in the project report. The proposed scheme is not including in CNCPL/CUF of PMGSY

  
( Er. K.S. Nathyal )  
Executive Engineer,  
PWD (R&B) Division,  
Samba.

Superintending Engineer,  
PWD (R&B) Jammu-Kathua Circle,  
Jammu.