

OFFICE OF THE CHIEF ENGINEER PW(R&B) DEPARTMENT, JAMMU

Subject: Construction of road from Shumba Danga to Goddar Km 1<sup>st</sup> to Km 3<sup>rd</sup> RD 250  
Length = 3.25 Kms (under NABARD)  
And Accord of Administrative Approval thereof.

ORDER NO. : - 160 OF 2017  
DATED : - 13-11-2017

Administrative Approval is hereby accorded to the execution for Construction of road from Shumba Danga to Goddar Km 1<sup>st</sup> to Km 3<sup>rd</sup> RD 250 Length = 3.25 Kms at an estimated cost of Rs.250.00 lacs (Rupees Two Crores and Fifty Lacs only) as per the details and cost abstract respectively to this order.

The Administrative Approval is however, subject to the following conditions:-

1. The works shall be taken up for execution only after specific authorization of funds is made by the NABARD / Administrative Department.
2. The works shall be executed after observing all Codal formalities / procedures.
3. It must be ensured that there shall be no multi-source of funding or overlapping of schemes under different programmes.
4. The scheme shall be executed only after encumbrance's free land is available.
5. That the works are executed strictly as per provisions and specifications of the sanctioned estimates / NABARD guidelines.
6. Schemes / project shall be completed within stipulated time.
7. There is no time over-run or cost over-run involved in the project.
8. Accord of Administrative Approval shall not be treated as an authority to spend money not provided for in the budget.
9. Quality control is mentioned in accordance with standards set under MORTH/IRC code.
10. The detailed estimate of the work shall be technically sanctioned by the competent authority and proposals strictly devised and designed as per the relevant code of MORD /MORTH and IRC Manual / specifications as per the relevant code.
11. Any such item(s) not covered under relevant schedule of rates is paid in accordance with the set codal procedure.
12. The structural design of the cross drainage is got authenticated by the competent authority well before the execution of work. The design shall also account for the latest HFL.
13. The NOC from the concerned regulatory Authorities such as forest department is obtained before the commencement of the work.

No: - CEJ/DB/11833-41

dt: - 14-11-2017

  
(Er. Sudheer Shah)  
CHIEF ENGINEER,  
PW(R&B) DEPARTMENT,  
JAMMU

Copy for information to the:-

1. Financial Commissioner to Govt. Planning & Development Department Civil Sectt. Jammu.
2. Commissioner / Secretary to Govt. Public Works (R&B) Department Civil Sectt. Jammu
3. Accountant General J&K, Jammu.
4. General Manager, NABARD Regional office J&K.
5. Superintending Engineer PWD(R&B) Circle Udhampur.
6. Assistant General Manager, NABARD Regional Office Jammu.
7. Executive Engineer PWD (R&B) Division Reasi
- 8-9. D.D. (P) / C.A.O. Direction office Jammu.

Name of the work: Construction of road from Shumba Danga to Goddar Km 1<sup>st</sup> to Km 3<sup>rd</sup>  
RD 250 Length = 3.25 Kms UNDER NABARD

### COST ABSTRACT

S.N o.	Particulars	Qty.	Rate	Amount (in lacs)
1.	Earthwork in Work Cutting	As per detailed estimates enclosed		87.18
2.	Walling			
a.	R/Wall 40 m/Km	130.00 Rmt	23400/Rmt	30.42
b.	B/Wall 40m/Km	130.00 Rmt	7990/Rmt	10.39
3.	Pavement			
a.	150 mm thick Granular Sub Base	As per detailed estimates enclosed		13.67
b.	75 mm thick Wet Mix Macadam	As per detailed estimates enclosed		12.07
c.	50 mm thick Bituminous Macadam	As per detailed estimates enclosed		49.34
d.	25 mm thick SDBC	As per detailed estimates enclosed		33.25
4.	X-Drainage Work.			
a.	Pucca Drain	150.00 Rmt	2473/Rmt	3.71
			<b>TOTAL</b>	<b>240.03</b>
			<b>Add 3 % for Contingencies</b>	<b>7.20</b>
			<b>Add 1% for quality Control</b>	<b>2.40</b>
			<b>G-TOTAL</b>	<b>249.63</b>

Say Rs.250.00 lacs

Sd/-  
Executive Engineer  
PWD (R&B) Division  
Reasi

  
Chief Engineer  
PW(R&B) Department  
Jammu

Sd/-  
Superintending Engineer  
PWD(R&B) Circle  
Udhampur

## REVISED ABSTRACT OF COST

me of work :- Construction of road from Shumba Danga to Godhar (L = 3.25Km)  
 under NABARD RIDF -XXIII.

Sl. No.	Particulars	Unit	Qty.	Rate	Amount (in Lacs)
	Earth work in cutting	(As per detailed estimate enclosed)			36.18
	Providing/laying 150mm thick GSB Qty. = $1 \times 3250 \times 3.50 \times 0.15 = 1706.25 \text{cum}$	Cum	1706.25	1400	23.89
	Providing/laying 75mm thick WMM Qty. = $1 \times 3250 \times 3.30 \times 0.075 = 804.37 \text{cum}$	Cum	804.37	1500	12.07
	Providing/laying 50mm thick BM Qty. = $1 \times 3250 \times 3.30 \times 0.05 = 536.25 \text{cum}$	Cum	536.25	9200	49.34
	Providing/laying 25mm thick SDBC Area = $1 \times 3250 \times 3.30 = 10725 \text{sqm}$	Sqm	10725	310	33.25
	Const. of 0.90mt. dia. H.P. culvert (As per Typical estimate enclosed)	No	10	2.14	21.40
	Const. of 3.0 Mtr Span RCC culvert	(As per detailed estimate enclosed)			19.10
	Const. of Pacca Drain	Rmt	700	2473	17.31
	Const of R/Wall (4mtr Ht.)	(As per detailed estimate enclosed)			51.60
	Const of B/Wall	(As per detailed estimate enclosed)			26.93
	Const. Of Crated B/Wall	(As per detailed estimate enclosed)			8.26
<b>Total</b>					<b>299.33</b>
Add 3% for W.C & Contingencies					8.98
<b>G. Total</b>					<b>308.30</b>

Say Rs 308.30Lacs

  
 Asstt. Ex. Engineer  
 PWD(R&B) Sub -Division  
 Pouni

  
 Executive Engineer  
 PWD(R&B) Division  
 Reasi

## ORIGINAL ABSTRACT OF COST

Name of Work:- Construction of road from Shumba Danga to Godder [L=3.25Kms] under NABARD RIDF - XXIII.

S No	Particulars	Unit	Qty	Rate	Amount [In lacs]
1	E/work in Cutting	[ As per Detailed estimate enclosed]			87.18
2	Walling				
	R/wall 15m/Km	Rmt	34.50	23400	8.07
	B/wall 20m/Km	Rmt	46.00	7990	3.68
3	Pavement				
a	75mm thick GSB	As per detailed estimate enclosed			13.67
b	75mm thick WMM	As per detailed estimate enclosed			12.07
c	50mm thick BM	As per detailed estimate enclosed			49.34
d	25mm thick SDBC	As per detailed estimate enclosed			33.25
4	X-drainage work				
e	Pacca Drain 50m/Km	Rmt	115.00	2473	2.84
<b>Total</b>					<b>210.10</b>
Add 3% w.c & contingencies					6.30
Add 1% for quality control					2.10
Add 15% for Service Tax					31.52
<b>G.Total</b>					<b>250.02</b>

*sd*  
Assistant Executive Engineer  
PWD (R&B) Sub Division  
Pouni

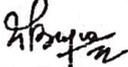
*R*  
Executive Engineer  
PWD (R&B) Division  
Reasi

# TECHNICAL REPORT

## CHECK LIST FOR NABARD SCHEMES (R&B)

Name of work:- Revised AAA for Construction of road from Shumba Danga to Godder [L=3.25Kms] under NABARD RIDF - XXIII

No.	Project Formulation	
	Site Plan/ Index Plan.	Enclosed
	Earth Work Chart/ typical cross sections.	Enclosed
	Pert Chart/ Bar Chart	--
	Tentative estimates duly signed by concerned officers	Enclosed
	General abstract of cost/ technical report with certificates regarding IRC/ NABARD specifications duly signed by SE and Executive Engineer.	Enclosed
	Preliminary Drawing of additional structures if any.	NA
	Seals and affixed.	Yes
	Five copies of project reports/ AAA's are made available to the Circle office.	Yes
	If the road passes through forest involving forest land/ trees then compensation estimates from forest department should be available with the project.	NA
	Recording of certificates by the Superintending Engineer and Executive Engineer on the project to the effect that they have Inspected the site and are satisfied with proposals kept in the Project report.	Yes
	Requisition letters from sponsorship from Worthy Superintending Engineer PWD (R&B) Circle Udhampur Reasi to which the scheme pertains	

  
Assistant Executive Engineer  
PWD (R&B) Sub-Division  
Reasi

  
Executive Engineer  
PWD(R&B) Division  
REASI

**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	30	3.00	90.00
2.	Truck	50	3.0	150.00
3.	Car/Jeep	70	1.0	70.00
4.	Tractor	45	1.0	45.00
5.	Motor Cycle	50	0.50	25.00
6.	Animal Drawn	5	4.0	20.00
7.	Cycle	25	0.50	12.50
8.	Metadoor	30	1.0	30.00
			<b>TOTAL :-</b>	<b>442.00</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 442 x 3.25 x 365 = **Rs. 36.70 Lacs.**

**GENERATION OF ADDITIONAL EMPLOYMENT :-**

The construction of the roadway will provide employment to the skilled and unskilled labour as the people of the area work as labourer 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 centers besides creating other employment avenue including fast development of infrastructure being nearest to the District Head Quarter at Reasi.

**CERTIFICATE :** It is certified that we have inspected the site and are satisfied with the proposals kept in the project report strictly devised & designed as per the relevant IRC code & bureau of Indian Standard & sound Engineering practice. There is no land acquisition / forest land problem involved in the project.

  
Asst. Executive Engineer  
PWD (R&B) Sub - Division  
Pouni

  
Executive Engineer  
PWD (R&B) Division  
REASI

**SPECIFICATION :-**

- a. **EARTHWORK**: - It has been proposed to construct with a formation width of 6.00Mtr and carriage way width of 5.20Mtr.
- b. **DRAINAGE CROSSING** :-, 0.90m dia HP Culvert, Pucca Drain & 3Mtr Span RCC culvert with approach wall shall be constructed at adequate places as per the necessity at site. 0.90m dia HP Culvert, Pucca Drain & 3Mtr span RCC culvert shall be provided for the smooth flow of surface water. Drop and curtain walls of culverts shall be constructed in M-10 grade concrete. For smooth flow of rain water through the culverts, catch pits of size 1.5M x 1.5M shall be constructed on up stream side in M-10 grade concrete.
- c. **RETAINING WALLS AND BREAST WALLS** :- It is proposed to construct R/walls and B/Walls shall be constructed for improvement of geometrics / retention of hill slope. The Pucca band shall be provided in cement sand mortar 1:6 50mm thick coping with construction joints in M-15 grade concrete shall be provided over the walls.
- d. **150mm THICK GSB** :- This course shall be GSB G-II with thickness 150mm and shall be laid in 02 layers over raised compacted portions of the road with nallah broken stones.
- e. **Wet Mix Macadam 75MM THICK** :- Base course shall be laid as WMM over the sub base with broken nallah stones of size 53mm to 22.4mm thick screening 11.2mm of grading type B conforming to clause 404 of MOST specification 1995.
- f. **50MM BITUMEN MACADAM**:- The course shall be 50mm and Shall be laid over Base Course conforming to IRC/clause 404 of MOST specification 1995.
- g. **25MM THICK SDBC** :- 25mm thick open graded premix carpet with specified graded crushed aggregate for wearing course including loading of aggregate with F.E loader, heating binder and aggregates in hot mix plant (40 to 60 TPH) transporting the mixed material to the site of the work and laying with paver finish as per 509 MORT & H specification.

**ME & COST :-**

The estimated cost of the scheme is **Rs. 308.30Lacs** and shall be completed within period of **03 Years**.

**FINANCIAL DETAIL :-**

The estimate cost of the project is **Rs. 308.30Lacs** out of which 90% shall be funded by NABARD in a phased manner and balance by the J&K State Govt.