

GOVERNMENT OF RAJASTHAN



PUBLIC WORKS DEPARTMENT

ESTIMATE

FOR

NAME OF WORK : Construction of BT road under Rural Road
Silpura road to Palanpur (Job No
132/1054/Rural Road/P/2013-14

LENGTH : 2.80 Km.

ESTIMATED COST : Rs. 160.00 Lacs

Name of District : Karauli

Name of Block : Karauli

Name of Zone : P.W.D. Zone Bharatpur

Name of Circle : P.W.D. Circle Karauli

Name of Division : Karauli

Name of Sub : P.W.D. Sub Div. I Karauli

**RAJASTHAN
ROADMAP**



KARAULI ROAD MAP



INDEX

Name of Work : - Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/2054/Rural Road/P/2013-14)

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3	Drawing & Certificate etc.	

ABSTRACT

Name of Work : - Construction of BT road under Rural Road Silpura road to Palanpur
(Job No 132/5054/Rural Road/P/13-14)

Rates : Are based on BSR w.e.f. 20 Feb. 2013 (Road Works) of PWD Circle Karauli

N.	Particulars	Amount
1	PART-'A' Road Work	2072776.00
2	PART-'B' Road Furniture	37304.00
3	PART-'C' C.C Pavement Work	8202572.00
4	PART-'D' Hume Pipe Culvert 750 mm Dia 10 No	446270.00
5	PART-'E' Protection Wall 1160 Mtr	2856191.00

TOTAL 13615113.00

Add for 3.00% Contringency Charges

408453.00

Add for 1% Quality Control Charges

136151.00

TOTAL 14159717.00

Add for 13% Proreta Charges

1840763.00

TOTAL 16000480.00

Say Rs. 160.00 Lacs

Assistant Engineer
PWD Sub Div. I Karauli

Executive Engineer
PWD Div. Karauli

Superintending Engineer
PWD Circle Karauli

Rates are checked as per BSR
Don't
FFA-TOFE
Feb-2013

Rates checked as per BSR Feb 2013
A.R.

Estt. No. 328 Dt. 22.8.13
TECHNICALLY SANCTIONED
FOR
Rs. 160.00 Lacs only
(Rs one hundred sixty Lacs only)
Chargable to 5054/Rural Road
Plan/2013-14
T.A. A.C.E.
P.W.D. ZONE BHARAT

TECHNICAL REPORT

Name of Work	> Construction of BT road under Rural Road Silpura road to Palampur (Job No 1375/2054/Rural Road/P/2013-14)
Ref. of Adm & Financial Sanction	> The C.E. PWD Raj. Jaipur vide letter No F 7 (1874) Sec.II/2013/D-279 Dt 12.8.13
Sanction Rs.	> 160.00 Laes
Road Length	> 2.800 Km
Authority :-	> Additional Chief Engineer PWD Zone Bharatpur
Necessity of Work	> This road connecting village Palampur to Distt. Head Quarter Karauli. It reduces 20 Km. distance. So it saves money, time & Fuel for the villages.
Specification	- i Total Length of road is 2.80 Km it is proposed to construct 1.00 Km BT road width GSB 15 cm & two layers of G-2 & G-3 of 75mm thick each layer - ii Primer coat (S.S) emulsion @ 0.70 to 1.0 Kg/Sqm & tack coat (R.S) of emulsion @ 0.25 to 0.30 Kg/Sqm - iii PMC 20mm thick VG-10 for PMC & Seal coat work. - iv In rocky area ordinary rock cutting average 20cm depth - v Base course as a levelling course of Mix 1 : 3 : 6 average 80mm thick & 200 mm thick M-30 grade controlled concrete as per desing mix - vi Protection wall is taken with R.R. stone masonry in CM 1 : 6 with 50mm thick M-20 CC Coping - vii 750 mm dia NP3 pipe in dip portion for disposal of rain water Road Furnishing : * RCC M15 grade Kilometer Stones & 200 Mtr Stones of standard design as per IRC - 8 shall be provided as per Technical Specifications Clause 1703. * Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC :67 made of 1.5 mm thick MS Sheet as per Technical Specifications Clause 1701. * Direction and place identification of semi reflective sign boards as per IRC : 67 made of 2mm thick M.S. Sheet as per Technical Specification Clause 1701

- * Typical Logo Board as per MORD specifications and drawing shall be provided at starting point.
- * Typical Citizen's Information Board as per MORD specifications and drawing shall be provided at starting of BT Road.

Material, Labour and Equipments:

The suitable material required for road construction is available in approved quarries. The crusher broken ballast and grit is available at the crusher at approved Quarry. The skilled/unskilled labour is also available in the area.

B.S.R.

- > Estimate has been framed on basis of Road BSR with effect from 20 Feb. 2013 of PWD Circle Karauli

Execution

- > The work would be executed by approved PWD Contractor after calling competitive tenders

Estimated Cost

- > Total estimate cost including Contengencies, Q.C & prorata charges worked out to **Rs. 160.00 Laes** An early technical sanction may kindly be solicited.

Assistant Engineer
PWD Sub Div. I Karauli

Executive Engineer
PWD Div. Karauli

Superintending Engineer
PWD Circle Karauli

Signature
J-67

Name of Work : - Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/5054/Rural Road/P/13-14)

Detail Estimate
PART-'A' Road Work

S. No	Description of Item	No	L	B	H	Unit	Qty	Rate	Amount
1	Clearing and Grubbing Road Land								
2.2 ii	Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm. removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201. By Mechanical Means In area of non-thorny jungle	1	2.200	1000	4.00	P.Hect	0.88	9230.00	8122.00
2	Excavation for roadway in hard rock								
3.9 ii	(blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal with a lift upto 1.5 m and lead upto 1000 metres. trimming bottom and side slopes in accordance with requirements of lines, grades and cross- sections as per Technical Specification Clause 302.3.5 Mechanical Means	1	2000	4.00	0.20	P. Cum	1600.00	221.00	353600.00
3	Construction of granular sub-base by								
4.1 iii	providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC. and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. For Grading III Material	1	1000	4.05	0.15			607.50	
	Berms	2	1000	1.875	0.15			562.50	
						Cum		1170.00	
						Tot P.Cum		338.00	395460.00

tractor mount

S. No	Description of Item	No	L	B	H	Unit	Qty	Rate	Amount
4	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stages to proper grade and camber, applying and brooming stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 2 as per Technical Specification Clause 405. By Munal Means	1	1000	3.75	0.075	Cum	281.25	806.00	226688.00
4.7.2a	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stages to proper grade and camber, applying and brooming stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 2 as per Technical Specification Clause 405. By Munal Means	1	1000	3.75	0.075	Cum	281.25	806.00	226688.00
5	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stages to proper grade and camber, applying and brooming stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 3 as per Technical Specification Clause 405. By Munal Means	1	1000	3.75	0.075	Cum	281.25	1165.00	327656.00
4.7.3a	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stages to proper grade and camber, applying and brooming stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 3 as per Technical Specification Clause 405. By Munal Means	1	1000	3.75	0.075	Cum	281.25	1165.00	327656.00
6	Providing and laying Prime Coat Low porosity: Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	1	1000	3.75		Sqm	3750.00	35.00	131250.00
5.1 i	Prime Coat Low porosity: Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	1	1000	3.75		Sqm	3750.00	35.00	131250.00
7	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Qty as per Item No 7				P.Sqm	3750.00	12.00	45000.00
5.2 iii	Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Qty as per Item No 7				P.Sqm	3750.00	12.00	45000.00

Name of Work : - Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/5054/Rural Road/P/13-14)

Detail Estimate
PART-'B' Road Furniture

S. No	Description of Item	No	L	B	II	Unit	Qty	Rate	Amount
1	Reinforced cement concrete M15 grade kilometer stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and Technical Specification Clause 1703.								
10.10 ii a	Ordinary Kilometer Stone (Precast)					P.Each	3	1260.00	3780.00
10.10 ii b	200 m stone (precast)					P.Each	10	360.00	3600.00
2	Semi Reflective Traffic Signs								
10.2 b i	Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC:67 made of 1.5 mm thick MS Sheet duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per Clause 1701.3.9 of MORD for Rural Roads of required shade and colour supported and welded on 47mm x 47 mm x 12 SWG sheet tube firmly fixed to the ground by mean of properly designed foundations with M-15 grade cement concrete 450x450x600 mm, 600 mm below ground level as per approved drawing Clause 1701.2.2 900 mm equilateral triangle					P.Each	4	1412.00	5648.00

S. No	Description of Item	No	L	B	H	Unit	Qty	Rate	Amount
3 10.4 B	Semi-Reflective Traffic signs Direction and place identification signs more than 0.90 sqm sign board Providing and erecting direction and place identification of semi reflective sign boards as per IRC-67 made of 2 mm thick M.S. Sheet duly stove enameled paint white colour in front and grey colour on back with reflective border of 70 mm width and required message, letters, figures with reflective tape of engineering grade as per MORD specifications of required shade and colour. Supported and welded on two nos. 47 mm x 47 mm of 12 SWG square tube of 3050 mm height duly strengthened by 25 mm x 5 mm MS flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701	2	0.90	1.20		P.Sqm	2.16	2340.00	5054.00
4 16.92	Providing and Fixing 'Logo' of Mahatma Gandhi Rajya Sadak Yojana Providing and fixing of typical MGRSY informatory sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1					P.Each	1	8622.00	8622.00
5 16.93	Supply and fixing of MGRSY logo with definition plate (as per MORD design/ Drawing) 2 mm thick M.S. plate framed to angle iron 40 x 40 x 6 mm on MS post of angle iron of size 65 x 65 x 6 mm, 3 m long stone enameled paint with hold fast including orange					P.Each	1	2600.00	2600.00

Name of Work : - Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/5054/Rural Road/P/13-14)

Detail Estimate
PART-'C' C.C Pavement

S. No	Description of Item	No	L	B	H	Unit	Qty	Rate	Amount
1	Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. For Grading III Material	1	1500	1.875	0.075	Cum	210.94	338.00	71297.00
2	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203. PCC grade M-10 Nominal mix 1:3:6.	1	1500	3.75	0.08	P.Cum	450.00	3042.00	1368900.00
3	Construction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to, IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14 days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501	1	1500	3.75	0.20	P.Cum	1125.00	6011.00	6762375.00
Total Part- 'C'									8202572.00


Junior Engineer
P.W.D. Sub. Div. I Karauli


Assistant Engineer
P.W.D. Sub Div. I Karauli


Executive Engineer
P.W.D. Div. Karauli

Name of Work : - Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/5054/Rural Road/P/13-14)

Details Estimate

Part - "D" Hume Pipe Culvert 750 mm Dia (1 No)

S.No	Particular	No I B II	Qty	Rate	Amount
1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil upto 3 m depth.				
		2x2x1.00x1	32.40		
		Total Cum	32.40	125.00	4050.00
			Cum	P.Cum	
2	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 P.C.C grade M 7.50 Nominal mix 1:4:8				
		2x2x1.00x0.10	0.40		
		Total Cum	0.40	2800.00	1120.00
			Cum	P.Cum	
3	Stone masonry work in cement mortar in foundation complete as per drawing and technical specifications Clauses 702, 704, 1202 & 1203. Random Rubble Masonry In cement mortar 1:6				
		2x2x(1+0.40)/2x1.80	5.04		
		Total Cum	5.04	2023.00	10196.00
			Cum	P.Cum	
4	Providing concrete for plain reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203. P.C.C. grade M-20. Nominal mix (1:2:4)				
		6.50x1.00x1.00	6.50		
		0.785x0.90x0.90x6.50	4.13		
		Total	2.37	3510.00	8319.00
			Cum	P.Cum	
5	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106, 750 mm dia				
		1x7.50	7.50	2730.00	20475.00
			Mtr	P. Mtr	
6	Pointing with cement mortar (1:3) on masonry work as per drawing and technical specification Clauses 613.3 and 1204				
		2x2x1.00	4.00	516.00	206.00
			Sqm	P/10 Sqm	

S.No	Particular	No	L	B	H	Qty	Rate	Amount
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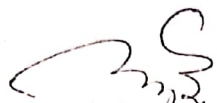
7 Providing PCC M-20 architectural coping on
12.13 the top of wing wall, return wall etc.
c complete as per drawing and technical
specification Clauses 615, 710 & 1204.3.11,
50 mm thick.

2x2x0.40

1.60
✓
Sqm 163.00 261.00
P.Sqm
Total 44627.00
Total For 10 Nos 446270.00

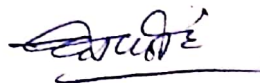


Junior Engineer
P.W.D. Sub. Dn. I Karauli



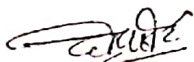
Assistant Engineer
PWD Sub Div. I Karauli

Executive Engineer
PWD Div. Karauli



Details Estimate
Part - "E" Protection Wall 1160 Mtr Long

S.No	Particular	No	L	B	H	Qty	Rate	Amount
1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil upto 3 m depth.							
11.1		1160x1.10x0.50				638.00 Cum	125.00 P.Cum	79750.00
2	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 P.C.C grade M 7.50 Nominal mix 1:4:8							
11.4		1160x1.10x0.10				126.05 Cum	2800.00 P.Cum	352940.00
3	Stone masonry work in cement mortar in foundation complete as per drawing and technical specifications Clauses 702, 704, 1202 & 1203. Random Rubble Masonry In cement mortar 1:6							
11.6		1160x(0.90+0.40)/2x1.50				1131.00 Cum	2023.00 P.Cum	2288013.00
4	Pointing with cement mortar (1:3) on masonry work as per drawing and technical specification Clauses 613.3 and 1204							
12.2		1160x1.00				1160.00 Sqm	516.00 P 10 Sqm	59856.00
5	Providing PCC M-20 architectural coping on the top of wing wall, return wall etc. complete as per drawing and technical specification Clauses 615, 710 & 1204.3.11. 50mm thick.							
12.13		1160x0.40				464.00 Sqm	163.00 P Sqm	75632.00
						G. Total		2856191.00

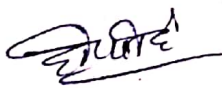


Junior Engineer
P.W.D. Sub. Dn. I Karauli



Assistant Engineer
PWD Sub Div. I Karauli

Executive Engineer
PWD Div. Karauli



Design of Flexible Pavement

(As per IRC : SP : 72-2007)

Name of Work **Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/2054/Rural Road/P/2013-14**

1 Design Datas :

(a) Average Daily Traffic as per last count in the month of Sept., 2011 (Peak Harvesting Season)		
(i) Car, Jeep, Vans, Three Wheelers	=	28 Nos.
(ii) Motorised Two Wheelers	=	46 Nos.
(iii) Light Commercial Vehicle	=	48 Nos.
(iv) Heavy Commercial Vehicle	=	
(A) Trucks		
Loaded		
Unloaded	=	10 Nos.
Overloaded	=	14 Nos.
(B) Busses	=	0 Nos.
Loaded		
Unloaded	=	8 Nos.
Overloaded	=	4 Nos.
(v) Agricultural Tractor Trailors	=	0 Nos.
Loaded	=	20 Nos.
Unloaded	=	10 Nos.
Overloaded	=	0 Nos.
(vi) Cycle	=	36 Nos.
(vii) Cycle Rickshwa	=	0 Nos.
(viii) Animal Drawn Vehicle	=	0 Nos.
Total :-	=	224 Nos.
(b) CBR Values of the Sub Grade as under :-	=	4.01%
(c) Annual Growth rate of Commercial Traffic (r)	=	9.02%
(d) Design life in Years (x)	=	10 Years
(e) Number of years between the last count and the year of computation of construction (n)	=	1 Years

2 Design of Flexible Pavement as per IRC : SP : 72-2007 :-

(a) Computation of the Design Traffic :		
(i) Harvesting Seasons in the area	=	2 Nos.
(ii) Duration of each Harvesting Season (t)	=	75 Days
(iii) Average Daily Traffic during in the Harvesting Season (T)	=	224 Nos.
(iv) Average Daily Traffic during in the Non-Harvesting Season (T)	=	0 Nos.
(iv) Annual Average Daily Traffic (AADT)	=	

$$AADT = T + \frac{1.2 \times T \times t}{x}$$

$$AADT = 106 + \frac{1.2 \times 106 \times 75}{365} = 132$$

- (v) AAPT before opening of road to traffic = 132 (1.06)¹ 140
 (vi) Proportions of Heavy Commercial Vehicles (HCV)

(A) Laden

$$HCV = \frac{140}{106} \times 8 = 10.57$$

(B) Unladen

$$HCV = \frac{140}{106} \times 8 = 10.57$$

(C) Overloaded

$$HCV = \frac{140}{106} \times 0 = 0.00$$

(vii) Proportions of Medium Heavy Commercial Vehicles (MCV)

(A) Laden

$$MCV = \frac{140}{106} \times 12 = 15.85$$

(B) Unladen

$$MCV = \frac{140}{106} \times 8 = 10.57$$

(C) Overloaded

$$MCV = \frac{140}{106} \times 0 = 0.00$$

(viii) Animal drawn carts being pneumatic tyres, have not been considered for design purpose

(ix)

$$T_0 \text{ for HCV: } 10.57 \times 2.58 + 10.6 \times 0.31 + 0 \times 2.86 = 30.55$$

$$T_0 \text{ for MCV: } 15.85 \times 0.31 + 10.57 \times 0.019 + 0 \times 0.344 = 5.11$$

(x) Commulative ESAL application (N) over the design life (10 years) @ 6.0% growth rate:-

$$N = T_0 \times 4811 \times L$$

$$35.66 \times 4811 \times 1 = 171568$$

$$= 0.172 \text{ MSA}$$

(b) Evaluation of Subgrade Strength :-

Since the GWT is too deep to influence the sungrade moisture

(c) Design Pavement Thickness :-

For above cumulative ESAL application, as per Fig. 4 (Pavement Design Catalogues), for traffic category range 100,000 to 200,000 ESAL application, the design crust as under :-

Km	CBR Value of the Subgrade	Crust thickness
Km	9.02%	required as per IRC : SP-72-2007
		300

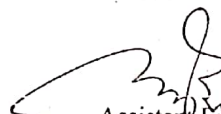
3 Pavement Composition Proposed as under :-

(a) Granular Sub-base	= 150 mm
WBM Grade-II	= 75 mm
WBM Grade-III	= 75 mm
Total :-	= <u>300 mm</u>

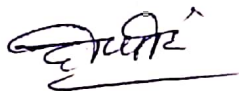
(b) Surfacing :-

20mm PMC using Bitumen VG-10 with Seal Coat Type-B using VG-10 on whole width of road.

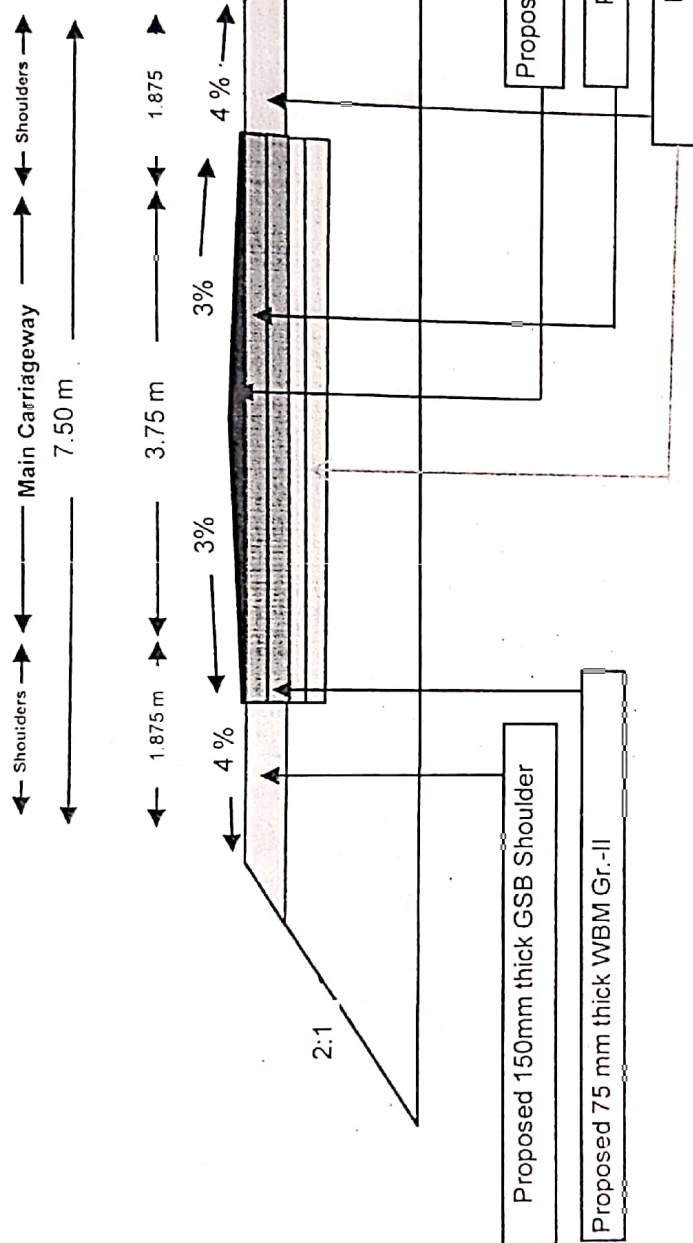

 Junior Engineer
 P.W.D Sub. Dn. I Karauli


 Assistant Engineer
 PWD Sub Div. I Karauli

Executive Engineer
 PWD Div. Karauli



Name of Road :- Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/2054/Rural Road/P/2013-14)



TYPICAL X-SECTION FOR SANDY/SILTY SOIL

[Signature]

Junior Engineer

P.W.D. Sub. Dn. I Karauli

[Signature]

Assistant Engineer

P.W.D. Sub Div. I Karauli

Executive Engineer

P.W.D. Div. Karauli

Design of Cement Concrete Pavement

(As per IRC:SP 62-2004)

1 Design Parameters

- | | | | |
|--|---|---|-----------------------|
| (a) Location of Pavement | : | Rajasthan | |
| (b) Design Period | : | 20 Years | |
| (c) Design wheel load | : | 51 kN | |
| (d) Soaked CBR value of existing soil of Subgrade | : | | |
| (e) Modulus of Subgrade reaction (k)
(From Table No. 1 for CBR 3.40%) | : | 30.80×10^{-3} | N/mm ² /mm |
| (f) Effective k over 150 mm thick Sub base | : | $1.20 \times 30.80 \times 10^{-3}$ | N/mm ² /mm |
| | : | $= 36.96 \times 10^{-3}$ | N/mm ² /mm |
| (g) Grade of CC Pavement | : | M 30 Grade Controlled Concrete | |
| (h) Flexural strength (f_r) for 28 days | : | $0.70 \sqrt{f_c}$
$0.7 \sqrt{30}$
3.834 Mpa | |
| (i) Flexural strength (f_r) for 90 days | : | $1.20 \times 3.834 = 4.60$ Mpa | |
| (j) Modulus of elasticity for concrete (E) | : | 3.0×10^4 MPa | |
| (k) Poisson's ratio (μ) | : | 0.15 | |

2 Joint Spacing & Lane width

- | | | |
|--|---|-----------|
| (a) Slab length, or spacing between consecutive contraction joints (L) | : | 3.75 Mtr. |
| (b) Slab width, or spacing between longitudinal joints (W) | : | 2.75 Mtr. |

3 Thickness of pavement

(A) Tacking 150 mm Trial thickness

- | | | |
|------------------------|---|---|
| (a) Edge Load Stress | : | From Fig. 4 of IRC :SP : 62-2004 Edge Load Stress for
$k = 0.037 \text{ N/mm}^3$
$= 4.50 \text{ Mpa}$ |
| (b) Temperature Stress | : | (1) Temperature differential for Rajasthan for 150mm slab is 12.5°C |

(2) Radius of relative stiffness (l) =

$$4 \sqrt{\frac{Eh^3}{12(1-\mu^2)k}}$$

$$= 4 \sqrt{\frac{3 \times 10^4 \times 150^3 \times 10^{-3}}{12(1-0.15^2) 36.96}}$$

$$= 695.17 \text{ mm}$$

$$(3) L/l = 3750 / 695.17$$

$$= 5.39$$

$$(4) \text{Bradbury's coefficient (C)} = 0.798$$

$$(5) \text{Temperature Stress } (\sigma_{te}) = 1.60 \text{ Mpa}$$

(C) Total Stress	=	Edge load stress + Temperature stress
	=	$4.50 + 1.60 = 6.10 \text{ Mpa}$

This is greater than the allowable flexural strength of concrete (4.60 Mpa)

So the thickness of 150mm assumed is inadequate

(B) Tacking 200 mm Trial thickness in view of Table 4 of IRC:SP:62-2004

(a) Edge Load Stress

From Fig. 4 of IRC :SP : 62-2004 Edge Load Stress for
 $k = 0.037 \text{ N/mm}^3$
 $= 2.70 \text{ Mpa}$

(b) Temperature Stress

(1) Temperature differential for Rajasthan for 200mm slab is 13.10°C

(2) Radius of relative stiffness (l) =

$$4 \sqrt{\frac{Eh^3}{12(1-\mu^2)k}}$$

$$= 4 \sqrt{\frac{3 \times 10^4 \times 200^3 \times 10^3}{12(1-0.15^2) 36.96}}$$

$$= 862.57 \text{ mm}$$

$$(3) L/l = 3750 / 862.57$$

$$= 4.34$$

(4) Bradbury's coefficient (C) ≈ 0.535

(5) Temperature Stress (σ_t) = 1.00 Mpa

(C) Total Stress

= Edge load stress + Temperature stress

$$= 2.70 + 1.00 = 3.70 \text{ Mpa}$$

The total stress is less than 4.60 Mpa and hence assumed thickness of 200mm is Ok

(D) Corner Stress

= From Fig. 5, Corner load stress for

wheel load = 51 kN,

K = 0.037 N/mm³

Slab thickness = 200mm

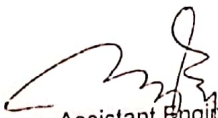
Corner stress (σ_c) = 3.10 Mpa

The corner stress is less than 4.6 MPa and hence the thickness of 200mm assumed is safe.

Hence provide 200mm thick cement concrete slab of M-30 grade as per section 1401 (9) (iii) of MORD specification.

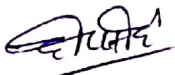


Junior Engineer
P.W.D. Sub. Dn. I Karauli



Assistant Engineer
P.W.D. Sub. Dn. I Karauli

Executive Engineer
P.W.D. Dn. Karauli



HYDRAULIC DESIGN FOR CONSTRUCTION OF H.P. CULVERT

24

CH:

$$Q = A \times V$$

Velocity

$$A = \text{Area of Cross section of Nala from Graphsheet} = 4.2 \text{ Sqm}$$

$$P = \text{Wetted Perimetre of Nala from Graphsheet} = 15 \text{ RM}$$

$$V = \frac{R^{2/3}}{n} S^{1/2}$$

$$R = \frac{A}{P} = \frac{4.2}{15} = 0.28$$

$$S = \frac{1 \text{ IN}}{210} = 0.00476$$

$$N = \text{Regosity to Coefficient} = 0.17$$

$$V = \frac{(0.17)^{2/3} \times (1/210)^{1/2}}{0.0275} = 1.07 \text{ M/Sec}$$

$$Q = AV = 4.2 \times 1.07 = 4.51 \text{ Cumecs}$$

(ii) Design of Scour depth

$$D = \frac{0.476 \times (Q)^{1/3}}{(f)^{1/3}}$$

$$f = \text{Silt factor} = 0.89 \text{ For medium Silt}$$

$$D = \frac{0.476 \times (3.21)^{1/3}}{(0.89)^{1/3}} = 0.82 \text{ M}$$

(iii) Max Scour depth

$$D_{\text{max}} = 1.27 \times D = 1.27 \times 0.82 = 1.04 \text{ M}$$

(iv) Depth of Foundation

As per MORD Manual for PMGSY Roads minimum depth of foundation in soft morum is taken as 1.50 Mtr

(v) Design for Pipes as per Plate No. 16 of IRC-13

$$\text{Length of pipe } L = 7.50 \text{ Mtr}$$

$$\text{Diameter of pipe } D = 1000 \text{ mm}$$

$$\text{Convayance factor } \lambda = 0.618$$

$$\text{Discharge flowing through one pipe } Q = \sqrt{2gH} = \sqrt{2 \times 9.81 \times 0.45} = 2.97 \text{ Cumecs}$$

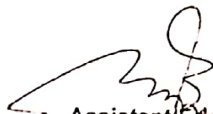
$$\text{Number of pipes required} = \frac{4.51}{2.97} = 2$$

2 No's

Hence 1 row of 750 mm diameter Hume Pipe has been proposed



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P.W.D. Sub. Dn. I Karauli



Assistant Engineer
P.W.D. Sub. Dn. I
Karauli

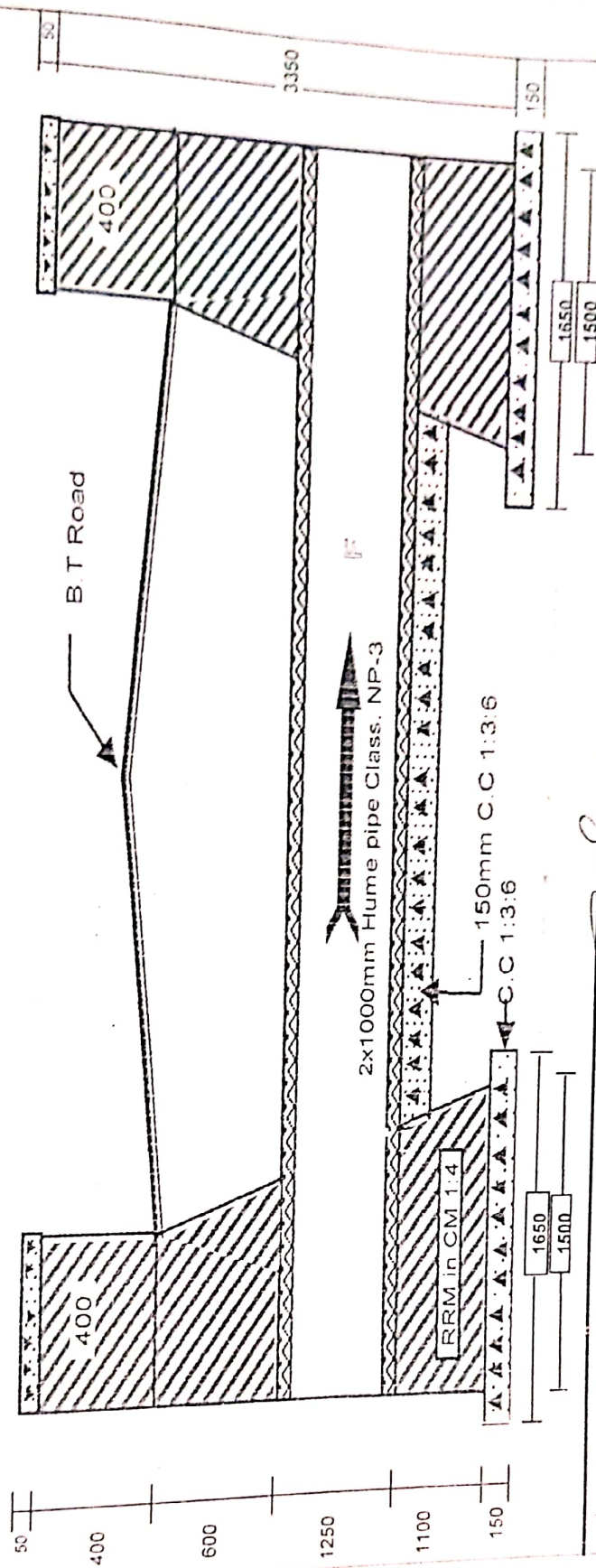
Executive Engineer
P.W.D. Dn. Karauli



Name of Work :- Construction of B.T road under Rural Road Silpura road to Palanpur (Job No 132/2054/Rural Road/P/2013-14)

District : Karauli
Block : Karauli

Type of CD Works :- Hume Pipe Culvert Single Row

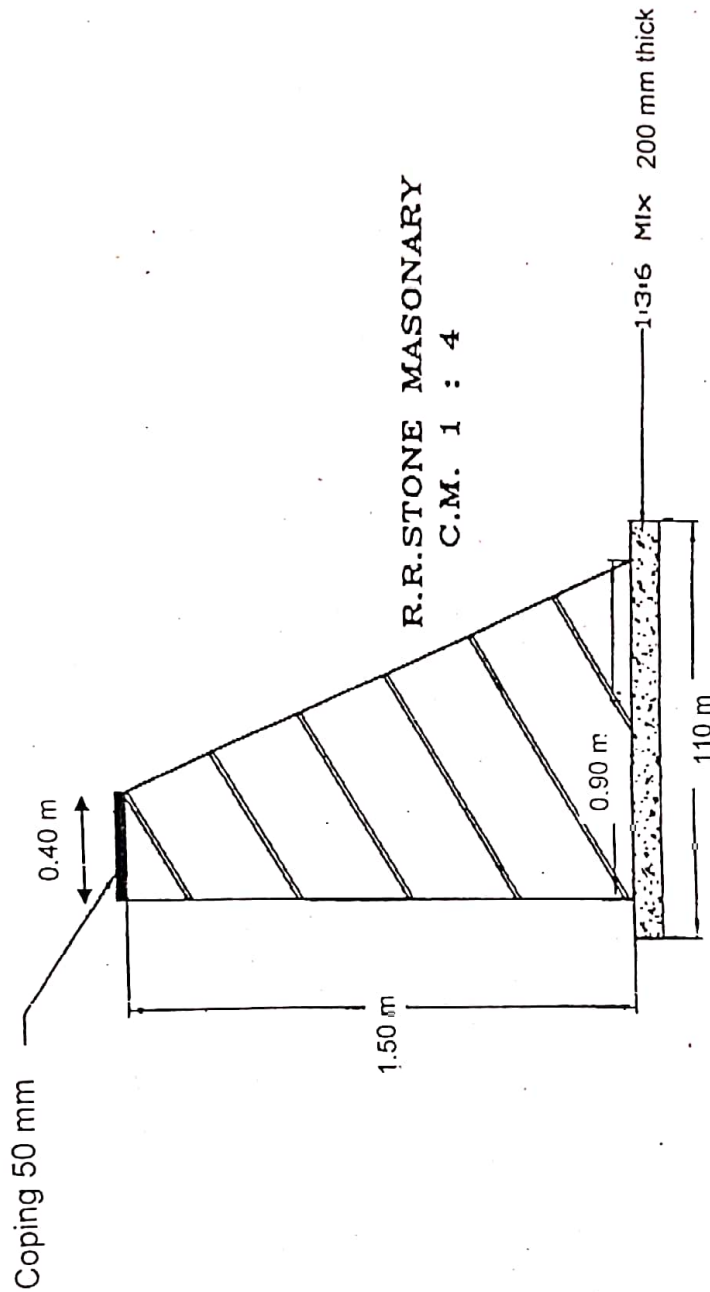


Junior Engineer
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Assistant Engineer
P.W.D. Sub. Dn. I Karauli

Executive Engineer
P.W.D. Dn. Karauli

Name of Work :- Construction of BT road under Rural Road Silpura road to Palanpur (Job No 132/2054/Rural Road/P/2013-14)



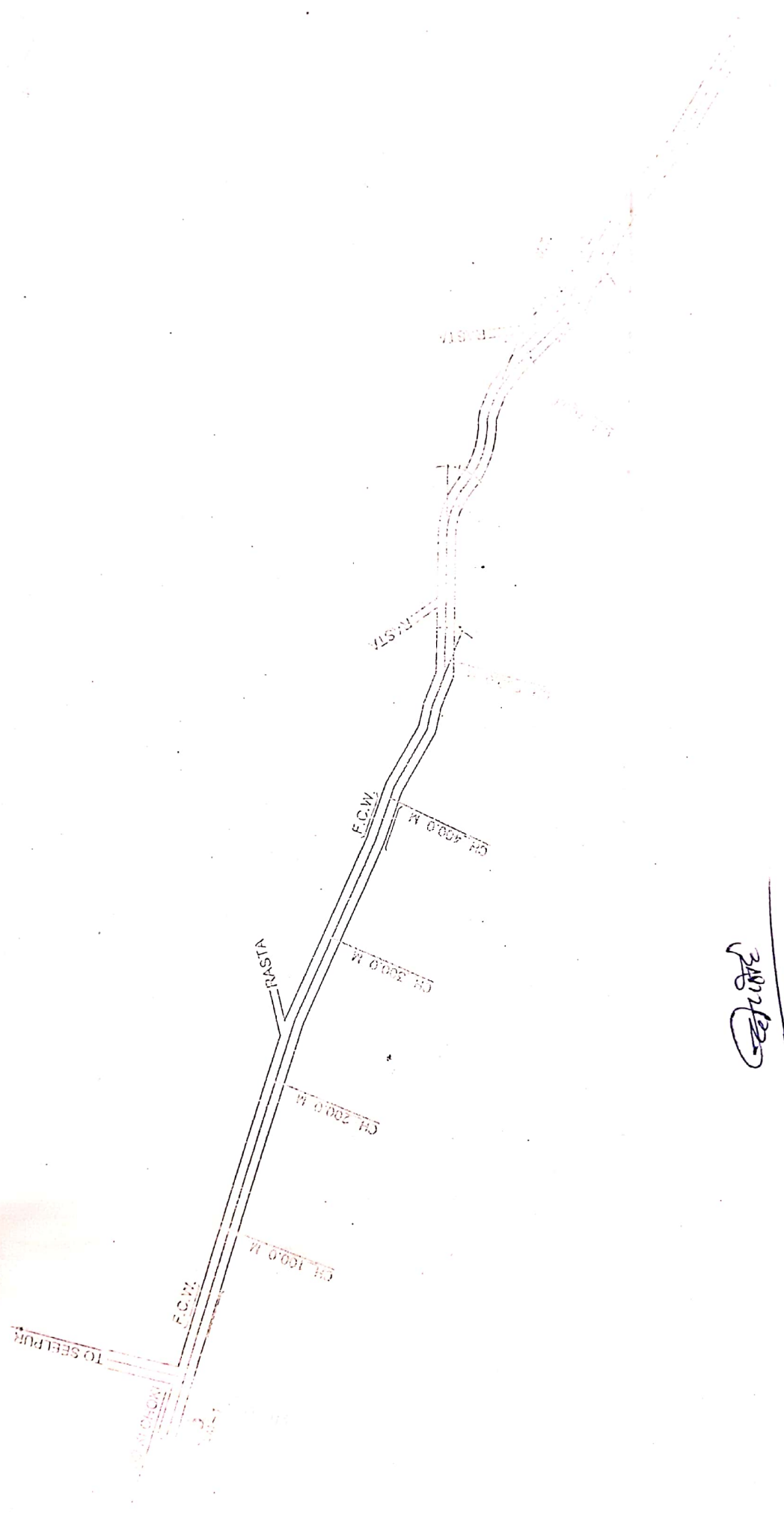
R.R. STONE MASONRY
C.M. 1 : 4

PROTECTION WALL

[Signature]
Junior Engineer
P.W.D. Sub. I Karauli

[Signature]
Assistant Engineer
P.W.D. Sub. Dn. I Karauli

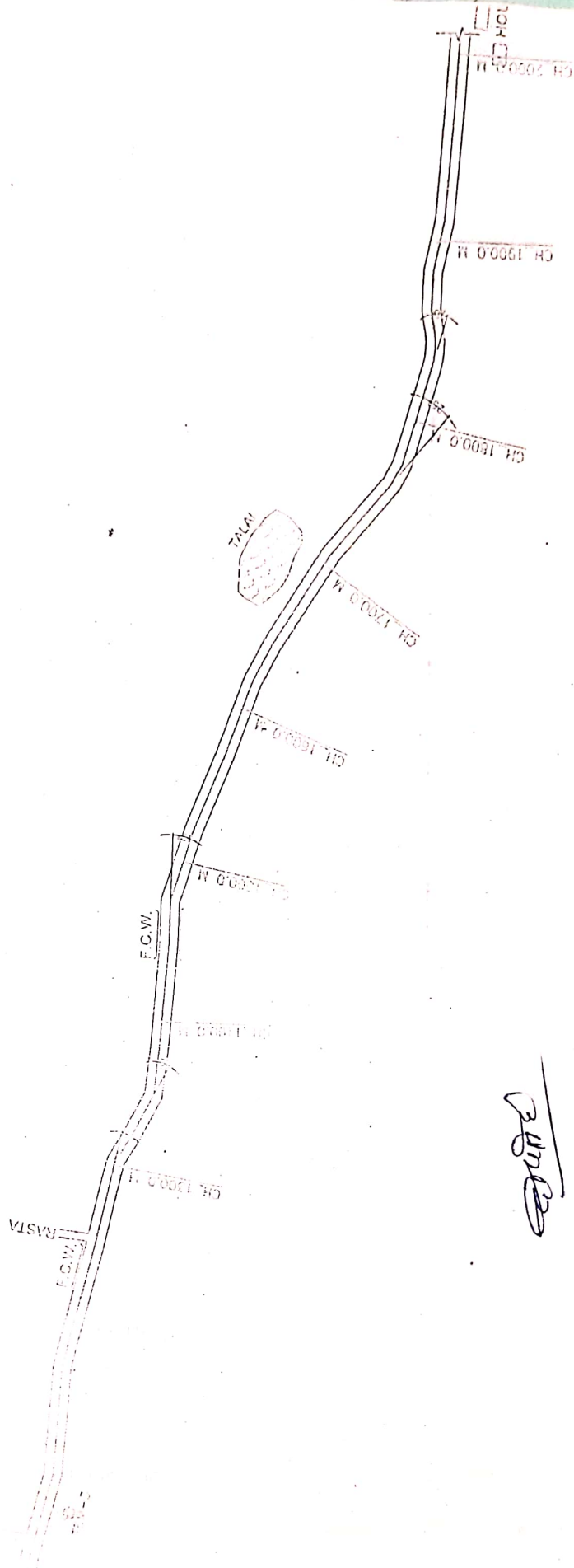
PLAN OF ROAD FROM SEELPUR MOD TO PALAMU TO 14.5 KM. EAST H-2450



Signature

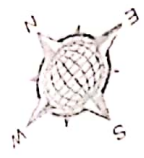


PLAN OF ROAD FROM DEELPUR MOD TO PALAMPUR (TOTAL LENGTH-2500 MTS.)

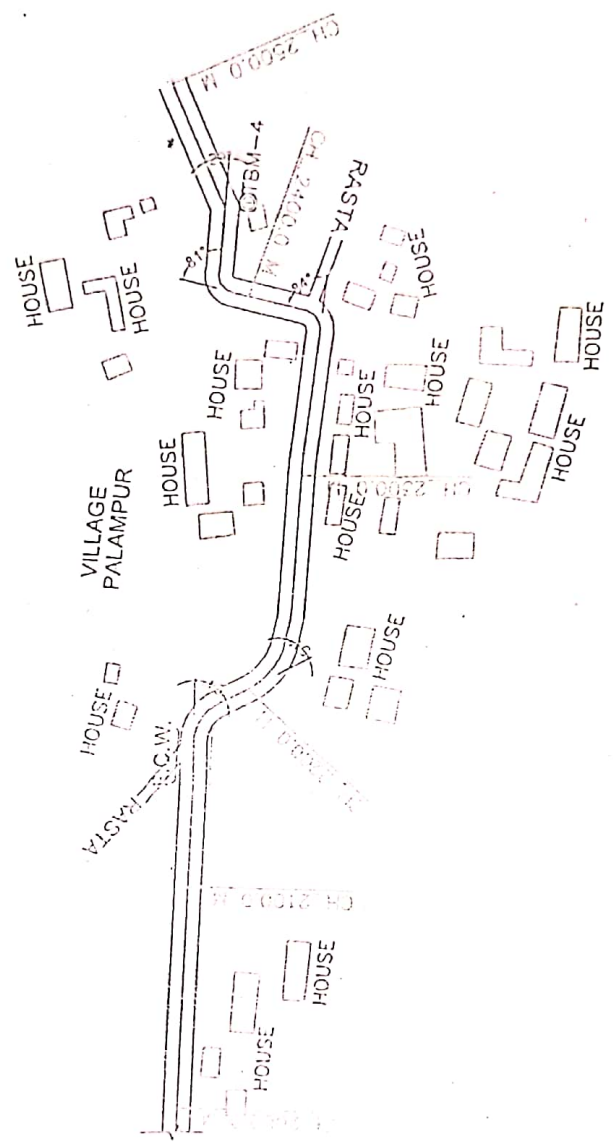


28

Signature



PLAN OF ROAD FROM SEELPUR MOD TO PALAMPUR (TOTAL LENGTH-2500 MTS.)



Handwritten signature or initials.

ARIGHT SURVEYS

P-A GAUTIAN COLONY BEHIND AKASHWANI SAWARI MA 3400

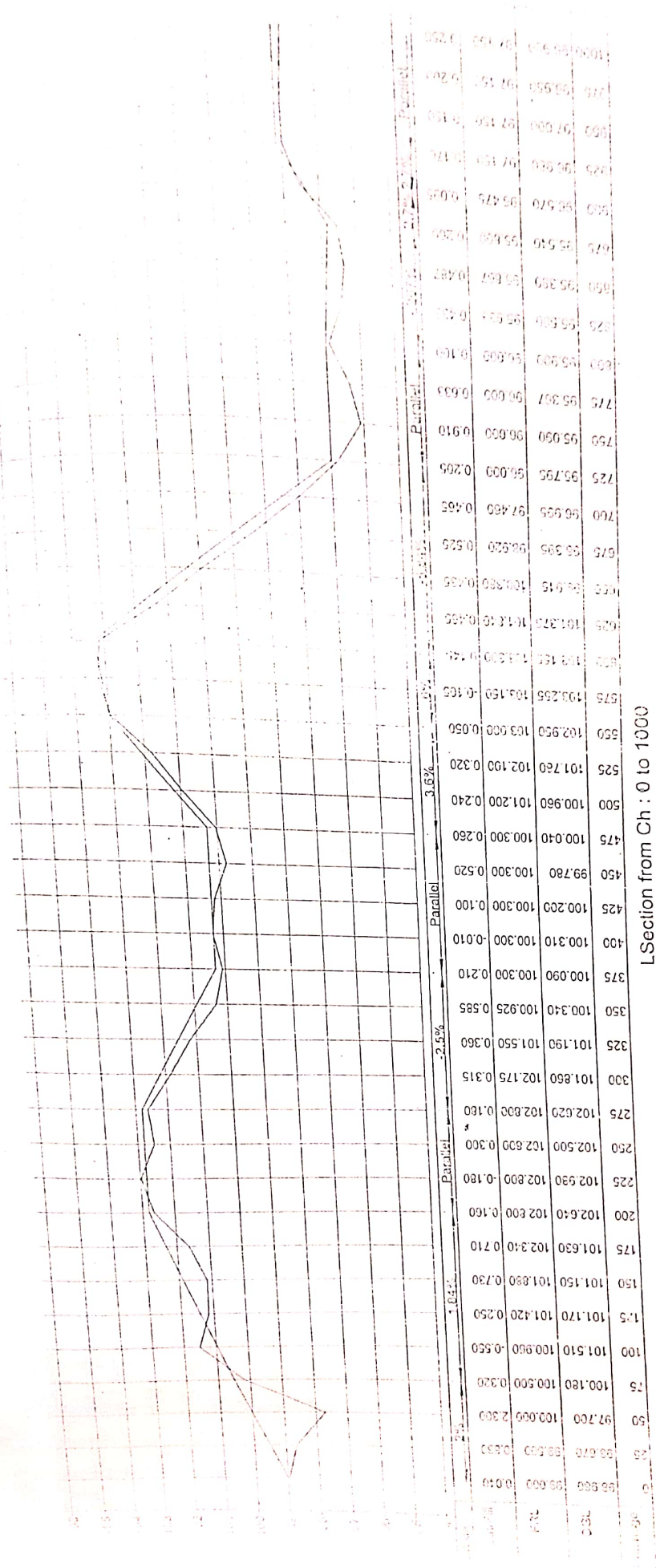
TEL NO 01462-225333, 225334, 225335

[Signature]

Section from Ch : 0 to 1000

WAMPUR

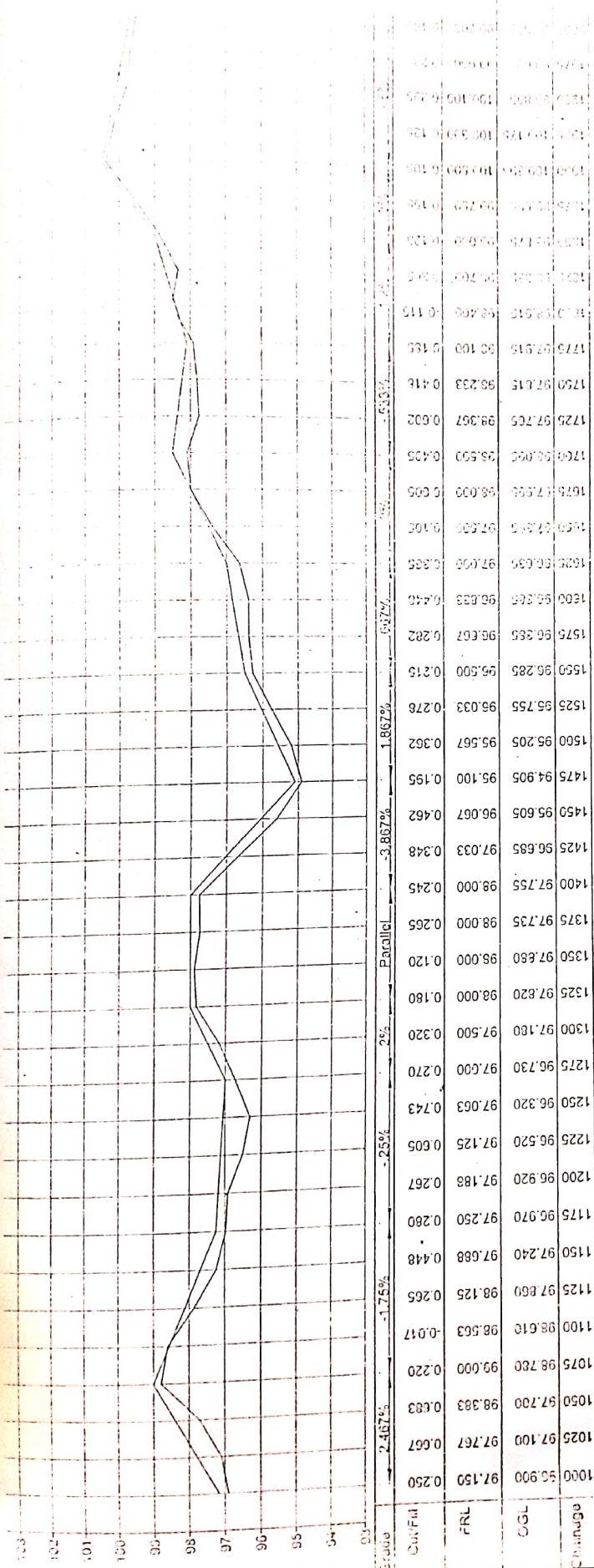
L Section from Ch : 0 to 1000



COLLIERVILLE

Extraction from Ch: 1000 to 2000

LSection from Ch : 1000 to 2000



Copy of letter No. F.7(1874)Sec.II/2013/D. 278
Addl. Secretary to Govt., PWD, Raj., Jaipur addressed to the Chief Engineer (Roads), PWD, Raj.,
Jaipur. dated 12/08/2013 received from

Sub: Administrative & financial sanction for Construction of various roads in various districts of Rajasthan under Rural Roads during the year 2013-14. (Demand No.21).

I am directed to convey administrative & financial sanction for Construction of various roads in various districts of Rajasthan under Rural Roads at an estimated cost of Rs. 5097.72 lac only as per list enclosed.

The expenditure will be charged to the Budget Head- "5054-Capital Outlay on Road & Bridges - 04 - Distt. & Other Roads - 800 - Other Expenditure - (02) - Other Road Construction Programme - (01)-Rural Roads - 74 - Construction of Road & Bridges Expenditure (Plan)" and expenditure shall be restricted within the overall Plan Ceiling of Road Sector during the current financial year and subsequent year.

This bears concurrence of the Finance (Exp.HD) Department vide I.D. No.171301/55 dated 05.08.2013 & I.D. No.302/PS/2013 dated 31.07.2013.

No.F. (1874)Sec.IV/2013.D 279

Dated 12/08 /2013

Copy forwarded to the following for information and necessary action -

- [illegible]

File 50 p.w. d
C.V. Karauli

34

OFFICE OF THE CHIEF ENGINEER PWD RAJASTHAN JAIPUR

No F.50(105)VC(RIDF)-18/Sec.II/12-13/D- 1225

Dated: 12/8/13

The Executive Engineer,
PWD, Div.
KARAUJI

Sub: Construction of approach road to Silpura
Ref: Your letter dated 29.7.2013

Sir,

The above work has been sanctioned under RIDF-XVIII (village connectivity scheme) at a cost of Rs. 91.22 lacs. As requested vide your letter referred above, permission is hereby accorded for taking up the work of connecting village Silpura from Mod Ki Chowki.

You may therefore take up the work on this alignment and get the same completed within administrative and financial sanction. No revision in cost will be entertained.

This bears approval of the Govt. vide No. 1273/M/PWD/13 dated 6.8.2013.

(G.L.Rao)

CHIEF ENGINEER(ROADS)

PWD RAJASTHAN JAIPUR

No F.50(105)VC(RIDF)-18/Sec.II/12-13/D-

Dated:

Copy to:

1. Adl. Chief Engineer, PWD, Zone Directorate for information & necessary action.
2. Superintending Engineer, PWD, Circle, Karauli for information.

(G.L.Rao)

CHIEF ENGINEER(ROADS)

PWD RAJASTHAN JAIPUR

List of Sanctioned works under Rural Roads during the year 2013-14

क्र. सं.	जिला	कार्य का नाम	लम्बाई (मी. में)	अनुमानित लागत	(संश्लि. लाखों में)	जोब नम्बर
1	शुन्सु	चन्द्रोरी से बालपुर	4.00	120.00	103/2013/संश्लि.	
2	शुन्सु	मंगली से नैनीसिंह से चारण सिंह नगर	4.00	120.00	104/2013/संश्लि.	14
3	शुन्सु	माधोबाद से मुन्नीनीचा बाया फागवा, सिरवावा की बाणी तक	5.50	165.00	105/2013/संश्लि.	14
4	शुन्सु	जानावा जवाही से चौकर जिला सीमा तक बाया मेहरी की बाणी सेवरावाली की बाणी सड़क	2.00	60.00	106/2013/संश्लि.	14
5	शुन्सु	मोहरी से बुलवा बाया माचरी से सेवरावाली की बाणी सड़क	5.50	165.00	107/2013/संश्लि.	14
6	शुन्सु	छलेतपुर से मोरपुर सड़क	1.00	30.00	108/2013/संश्लि.	14
7	शुन्सु	कंदरवा से चमरावा की बाणी (सर्विस का बाया)	3.00	90.00	109/2013/संश्लि.	14
8	शुन्सु	बिरवा से चमरावा फला बाया धर्मदहा	5.00	200.00	110/2013/संश्लि.	14
9	शुन्सु	चमरावा से चमरावा बाया खोडवा की बाणी सड़क	3.00	90.00	111/2013/संश्लि.	14
10	शुन्सु	चमरावा से आरक्षणगर सड़क (बाया की बाणी)	2.50	100.00	112/2013/संश्लि.	14
11	शुन्सु	जसरापुर से भगतीसतपी सिंह	6.00	180.00	113/2013/संश्लि.	14
12	शुन्सु	दुमरा से चमरावा बाणी लोतवाली सड़क	4.00	120.00	114/2013/संश्लि.	14
13	शुन्सु	बाणी चमरावा से बाणी से बाणी फिचरावा बाया साद रिम सड़क	1.50	45.00	115/2013/संश्लि.	14
14	शुन्सु	श्रीकृष्ण नगर से कौंड ब्लाक सीमा तक सड़क	2.50	75.00	116/2013/संश्लि.	14
15	शुन्सु	रसूलपुर से मोहल सड़क	2.00	60.00	117/2013/संश्लि.	14
16	शुन्सु	सोनीवा से मोहल सड़क	1.00	30.00	118/2013/संश्लि.	14
17	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	0.60	67.50	119/2013/संश्लि.	14
18	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	1.00	65.00	120/2013/संश्लि.	14
19	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	0.60	91.00	121/2013/संश्लि.	14
20	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	3.50	228.00	122/2013/संश्लि.	14
21	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	2.50	150.00	123/2013/संश्लि.	14
22	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	6.00	195.00	124/2013/संश्लि.	14
23	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	0.60	174.71	125/2013/संश्लि.	14
24	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	2.50	150.00	126/2013/संश्लि.	14
25	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	2.50	150.00	127/2013/संश्लि.	14
26	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	2.50	150.00	128/2013/संश्लि.	14
27	सोनी	सामर सड़क से मोहल सड़क बाया मोहल सड़क	2.50	150.00	129/2013/संश्लि.	14

28	टोक	भोंदकला से नगर फाट	3.00	90.00	130/5054/ग्रामीण राडके/प्लान/2013-14
29	जालोर	चित्तलवाला चौक	2.50	105.00	131/5054/ग्रामीण राडके/प्लान/2013-14
30	करोली	सितपुरा चोक से पालनपुर	5.20	160.00	132/5054/ग्रामीण राडके/प्लान/2013-14
31	भरतपुर	गोव जलालपुर में सतारत नदी पर पुल का निर्माण कार्य	-	165.00	133/5054/ग्रामीण राडके/प्लान/2013-14
32	जालोर	पोंडरी से बलराड	4.00	120.00	134/5054/ग्रामीण राडके/प्लान/2013-14
33	जालोर	जालोर दिशानगड राडके से सरदारगड	3.00	90.00	135/5054/ग्रामीण राडके/प्लान/2013-14
34	जयपुर	अगरपुरा से बरवाडा	1.00	25.00	136/5054/ग्रामीण राडके/प्लान/2013-14
35	जयपुर	म्हारखुद से सुतालीदास महाराज	1.00	25.00	137/5054/ग्रामीण राडके/प्लान/2013-14
36	जयपुर	त्रिलोक पुरा से मालियावाली	0.50	12.50	138/5054/ग्रामीण राडके/प्लान/2013-14
37	जयपुर	परनानपुरा (म्हारखुद) से रातोरी माता मन्दिर तक सिमरिया मोड	1.50	45.00	139/5054/ग्रामीण राडके/प्लान/2013-14
38	जयपुर	धौली से जगन्नाथ धाम के आश्रम तक	1.00	30.00	140/5054/ग्रामीण राडके/प्लान/2013-14
39	जयपुर	तहसील अगिर में ग्राम पाला सुदरखपुर से तीन दुकान फोनको के बायीं	3.00	75.00	141/5054/ग्रामीण राडके/प्लान/2013-14
40	जयपुर	ग्राम भनोतपुरा बाया भासिहपुरा से ग्राम भासिहपुरा से रणसिंहपुरा	5.00	125.00	142/5054/ग्रामीण राडके/प्लान/2013-14
41	जयपुर	ग्राम पलास भनोत से गुजानास तक ऊपर राडके का निर्माण कार्य	3.00	75.00	143/5054/ग्रामीण राडके/प्लान/2013-14
42	जयपुर	ग्राम नादरा से ग्राम सलहदीपुरा तक	-	70.00	144/5054/ग्रामीण राडके/प्लान/2013-14
43	सोकर	पालडी गाँव में सीसी राडके का कार्य	1.00	50.00	145/5054/ग्रामीण राडके/प्लान/2013-14
44	सोकर	ए.आर. सिंगोदरा	0.50	30.00	146/5054/ग्रामीण राडके/प्लान/2013-14
45	सोकर	ए.आर. मोहरी बायीं	0.50	30.00	147/5054/ग्रामीण राडके/प्लान/2013-14
46	झालावाड	जगन्नाथ आनपुर राडके किमी 27/900 से ग्राम एने सिरा	0.70	50.00	148/5054/ग्रामीण राडके/प्लान/2013-14
47	करोली	कनकपुरा आर से राडके राडके पनका ड्रेन कोय राडके इन दिनेय पौराण भनोतपुरा आन इलाहा जालवा कालार जालोली राडके इन किमी 20	0.60	131.71	149/5054/ग्रामीण राडके/प्लान/2013-14
48	जालोर	मुतालीवा से मुतालीवा	4.00	120.00	150/5054/ग्रामीण राडके/प्लान/2013-14
49	जालोर	ए.आर. ए. अगिरा नजदीक	1.00	25.00	151/5054/ग्रामीण राडके/प्लान/2013-14
50	जालोर	ज.आ.प. नजदीक	3.00	75.00	152/5054/ग्रामीण राडके/प्लान/2013-14
51	जयपुर	जयपुरा से जालवा से 3 किमी	4.00	100.00	153/5054/ग्रामीण राडके/प्लान/2013-14
52	जयपुर	नगरा से सारपुरा	4.00	120.00	154/5054/ग्रामीण राडके/प्लान/2013-14
53	जयपुर	वसिनी से जयपुरा तक सीसी काय आन रानपुरा बाहाराड राड किमी 7 एवं 8 (भिलेय पौराण) 6/150 से 6/350 एवं 6/450 से 7/450	1.20	125.00	155/5054/ग्रामीण राडके/प्लान/2013-14
राडके			130.20	5097.72	

(समाचार पत्रों में प्रकाशन वाचत)
कार्यालय मुख्य अभियन्ता, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर

क्रमांक: एफ.7(1921)अनु-2/2013/डी- 2013

दिनांक: 22.07.2013.

निविदा सूचना संख्या-10 : शहरी सडके/ग्रामीण सडके/एस.एम.एण्ड.आर./तेरहवे वित्त आयोग के कार्य

राजस्थान के राज्यपाल महोदय की ओर से शहरी सडके/ग्रामीण सडके/एस.एम.एण्ड.आर. के कार्य के 41 कार्यों के लिए उपयुक्त श्रेणी में सार्वजनिक निर्माण विभाग राजस्थान में पंजीकृत संवेदकों एवं राज्य सरकार/केन्द्र सरकार के अधिकृत संगठनों/केन्द्रीय लोक निर्माण विभाग/डाक एवम् दूर संचार विभाग/रेल्वे इत्यादि में पंजीकृत संवेदकों, जो कि राजस्थान सरकार के एए, ए व बी, श्रेणी के संवेदकों के समक्ष हो, से कार्यों हेतु ई-टेण्डरिंग के माध्यम से निर्धारित प्रपत्र में प्राप्त की जावेंगी। ई-निविदा से सम्बन्धित विवरण वेब साईट <http://dipr.rajasthan.gov.in/tenders.asp> व <http://www.pwd.rajasthan.gov.in> व <http://eporc.rajasthan.gov.in> पर देखा जा सकता है।

(जी० एल० राव) 22-7-13
 मुख्य अभियन्ता (पथ)
 सार्वजनिक निर्माण विभाग,
 राजस्थान, जयपुर।

कार्यालय मुख्य अभियन्ता, सार्वजनिक निर्माण विभाग, राजस्थान, जयपुर।
 क्रमांक: एफ.7(1921)अनु-2/2013/डी-208 (वेब साईट पर अपलोड करने वाकत)
 निविदा सूचना संख्या-10 : (शहरी सडकें/ग्रामीण सडकें/एस.एम.एण्ड.आर./तेरहवे वित्त आयोग के
 कार्य) 2013-14 दिनांक: 22.07.2013

राजस्थान के राज्यपाल महोदय की ओर से शहरी सडकें/ग्रामीण सडकें/एस.एम.एण्ड.आर./तेरहवे वित्त आयोग के कार्य के 41 कार्यों के लिए उपयुक्त श्रेणी में सार्वजनिक निर्माण विभाग राजस्थान में पंजीकृत संवेदकों एवं राज्य सरकार/केन्द्र सरकार के अधिकृत संगठनों/केन्द्रीय लोक निर्माण विभाग/डाक एवम् दूर संचार विभाग/रेल्वे इत्यादि में पंजीकृत संवेदकों, जो कि राजस्थान सरकार के ए ए व ए श्रेणी के संवेदकों के समकक्ष हों, से निर्धारित प्रपत्र में ई-टेंडरिंग प्रक्रिया द्वारा ऑन लाईन निविदायें आमंत्रित की जाती हैं।

क्र. सं.	जिला	कार्य का नाम	अनुमानित लागत (रु. लाखों में)	कार्य पूर्ण करने की अवधि	निविदा प्रपत्र विक्रय/प्राप्ति कार्यालय
1.	नागौर	मकराना बोरावर रोड	213.00	6 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-अजमेर
2.	नागौर	मकराना बिडियाड रोड, कि.मी. 0/0 से 7/0 (शहरी पोर्शन)	680.00	8 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-अजमेर
3.	दौसा	चार लेन सडक दौसा कुन्डल बादीकुई, एम.डी. आर.-48 (शहरी पोर्शन)	765.00	8 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-2, जयपुर
4.	शुन्शुनु	चार लेन सडक उदयपुरवाटी नवलगढ मुकन्दगढ, कि.मी. 21/200 से 24/0 (शहरी पोर्शन)	850.00	9 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
5.	शुन्शुनु	नवलगढ गुढा मंडावरा सडक, एम.डी.आर.-159 कि.मी. 0/0 से 3/400 (शहरी पोर्शन)	340.00	6 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
6.	कोटा	स्टेट हाईवे-9ए के कि.मी. 127/450 से 129/500 के मध्य सीमेंट कंक्रीट सडक का निर्माण कार्य	240.00	6 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
7.	कोटा	जुल्मी सडक से स्टेट हाईवे-9ए के मध्य सीमेंट कंक्रीट सडक का निर्माण (समर्गजमंडी बाईपास का भाग)	255.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
8.	झालावाड	लिक रोड से भवानीमण्डी बाईपास से शिवालय की सी.डी. कार्य का निर्माण कार्य	34.00	2 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-झालावाड
9.	भीलवाडा	सी.सी. सडक का निर्माण कार्य निर्सिंगद्वारा 18 से रेतिया पेलेस गेट तक, शाहपुरा	10.00	1 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-अजमेर
10.	जोधपुर	कन्स्ट्रक्शन ऑफ बी.टी. रोड उचियारवा बीसलपुर खातीयासनि सालवा कला बावडी रोड, कि.मी. 69/500 से 76/0 (एम.डी.आर.-144)	136.00	4 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-जोधपुर
11.	जोधपुर	कन्स्ट्रक्शन ऑफ बी.टी. रोड फॉर्म जुड से केलवा, कि.मी. 0/0 से 9/0	167.00	4 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-जोधपुर
12.	जोधपुर	कन्स्ट्रक्शन ऑफ बी.टी. रोड फॉर्म भवाद से देवताओं की दाणी वाया जोगमाया का मन्दिर	190.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-जोधपुर
13.	कोटा	सम्पर्क सडक गोपालपुरा से सावनगादी	192.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
14.	कोटा	सम्पर्क सडक मामोर से केशौली	120.00	5 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-कोटा
15.	कोटा	सम्पर्क सडक नालोदी	178.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा

क्र.	जिला	कार्य का नाम	अनुमानित लागत (रु. लाखों में)	कार्य पूर्ण करने की अवधि	निविदा प्रपत्र विक्रय/ प्राप्ति कार्यालय
16	कोटा	कन्वर्शन ऑफ सी.सी. रोड एण्ड पक्का ड्रेन बॉथ साईड इन विलेज पोरसन करवार ऑन इटावा पिपालदा करवार खातोली रोड इन कि.मी. 25	148.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
17	कोटा	आर.यु.वी. का निर्माण कार्य, कि.मी. 849/14-16, एल.सी. नम्बर-82 के पास, रामगंज मंडी	481.00	10 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
18	चुरू	आर.यु.वी. का निर्माण कार्य यु.डी.एस.-देरासर पर	150.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-दीकानेर
19	चुरू	आर.यु.वी. का निर्माण कार्य सुजानसर-देरासर, कि.मी. 37/300 से 37/400	150.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-दीकानेर
20	सीकर	अप्रोच रोड से भरगलों की ढाणी	32.00	2 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-सीकर
21	बुंदी	खानपुर से देदिया तिरागा	68.00	2 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-बुंदी
22	जालोर	धितलवाना बाईपास	89.00	4 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-जालोर
23	करोली	सिलपुरा सडक से पालनपुर	134.00	4 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-भरतपुर
24	भरतपुर	गौव जलालपुर में रुपारेल नदी पर पुल का निर्माण कार्य	170.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-भरतपुर
25	झालावाड	कनवास खानपुर सडक, कि.मी. 27/900 से ग्राम उम्मेदपुरा	51.00	2 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-झालावाड
26	झालावाड	आर.जे.-19-01-शहरी सडके-प्लान-2013-14	189.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
27	कोटा	आर.जे.-23-01-शहरी सडके-प्लान-2013-14	140.00	4 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
28	कोटा	आर.जे.-23-01-ग्रामीण सडके-प्लान-2013-14	190.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
29	कोटा	आर.जे.-23-06-तेरहवा वित्त आयोग-3054-नोन प्लान -2013-14	174.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-कोटा
30	झुझुनु	आर.जे.-20-01-ग्रामीण सडके-प्लान-2013-14	344.00	7 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
31	झुझुनु	आर.जे.-20-02-ग्रामीण सडके-प्लान-2013-14	302.00	7 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
32	झुझुनु	आर.जे.-20-03-ग्रामीण सडके-प्लान-2013-14	331.00	7 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
33	झुझुनु	आर.जे.-20-04-ग्रामीण सडके-प्लान-2013-14	293.00	6 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
34	झुझुनु	आर.जे.-20-05-ग्रामीण सडके-प्लान-2013-14	166.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-प्रथम, जयपुर
35	टोक	आर.जे.-32-01-ग्रामीण सडके-प्लान-2013-14	222.00	7 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-अजमेर
36	जालोर	आर.जे.-18-01-ग्रामीण सडके-प्लान-2013-14	179.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-जोधपुर
37	जयपुर	आर.जे.-16-01-ग्रामीण सडके-प्लान-2013-14	116.00	4 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-जयपुर
38	जयपुर	आर.जे.-16-02-ग्रामीण सडके-प्लान-2013-14	293.00	7 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-जयपुर
39	सीकर	आर.जे.-29-01-ग्रामीण सडके-प्लान-2013-14	93.00	4 माह	अधीक्षण अभियन्ता, सा.नि.वि. वृत्त-सीकर
40	अजमेर	आर.जे.-01-01-ग्रामीण सडके-प्लान-2013-14	187.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-अजमेर
41	हनुमानगढ	आर.जे.-15-01-ग्रामीण सडके-प्लान-2013-14	191.00	5 माह	अतिरिक्त मुख्य अभियन्ता, सा.नि.वि. संभाग-दीकानेर
		योग:	9253.00		

जिसने राज्य सरकार की उक्त लिखित अनुमति निविदा जमा कराने से पहले अथवा संवेदक के यहाँ सेवाई लेने से पहले अनुमति नहीं ली है तो अनुबन्ध रद्द किया जा सकेगा ।

- 10- निविदादाता इन प्रपत्रों को download कर सकते हैं । निविदाकर्ता द्वारा निविदा शुल्क नकद अथवा डिमांड ड्राफ्ट के रूप में सम्बन्धित कार्यालय में निर्धारित तिथि तक जमा कराना आवश्यक है ।
- 11- किसी भी निविदा को स्वीकार करने एवं बिना कारण बताये निरस्त करने के समस्त अधिकार राक्षम अधिकारी के पास सुरक्षित है । आर. पी. डब्ल्यू. ए-100 की समस्त शर्तें मान्य होगी ।
- 12- संवेदक द्वारा उक्त कार्यों के लिए निर्धारित मशीनरी जो निविदा कि स्पेशल कंडीशन में वर्णित है, को स्वयं के पास होने या किराये पर लेने का प्रमाण-पत्र देना होगा ।
- 13- निविदा शुल्क निम्नानुसार निर्धारित है :

कार्य की अनुमानित राशि	निविदा शुल्क
150 लाख से कम राशि	
150 लाख से 400 लाख तक	1000/- रुपये
400 लाख से अधिक तक	2000/- रुपये
	5000/- रुपये

- 14- वित्त विभाग के आदेश संख्या एफ.1(1)एफ.डी./जी.एफ.एण्ड एआर./2007 दिनांक 30.09.2011 (सर्कुलर नं. 19/2011) के अनुसार 50.00 लाख रुपये तक की राशि के कार्यों के लिए 500/- व 50.00 लाख रुपये अधिक राशि के कार्यों के लिए 1000/- रु. की राशि निविदा शुल्क के अतिरिक्त देनी होगी जो डिमांड ड्राफ्ट या बैंकर चेक के रूप में देय होगी। यह डिमांड ड्राफ्ट या बैंकर चेक मैनेजिंग डायरेक्टर, आर. आई.एस.एल के पक्ष में व जयपुर में भुगतान योग्य होना चाहिये।

- 15- कार्य पूर्ण करने की अवधि में मानसून अवधि सम्मिलित है ।
- 16- कार्य का दोष निवारण एवं उनके सुधार (डिफेक्ट लाइबिलिटी पिरीयड) का उत्तरदायित्व कार्य पूर्णता के पश्चात तीन वर्ष तक रहेगा ।
- 17- 150 लाख रु. से 500 लाख रु. के कार्यों के लिए पोटेन्शियल विड एवं 500 लाख रु. से अधिक राशि के कार्यों हेतु पोस्ट क्वालिफिकेशन विड पद्धति अपनायी जावेगी।
- 18- ई-टेंडरिंग के लिए निविदा दाता हेतु निर्देश

अ- इन निविदाओं में दिलवस्पी लेने वाले निविदा दाता निविदा प्रपत्रों का इन्टरनेटसाईट <http://eporc.rajasthan.gov.in> से डाउनलोड (Download) कर सकते हैं ।

ब- निविदाओं में भाग लेने वाले निविदादाताओं को इन्टरनेट साईट <http://eporc.rajasthan.gov.in> पर रजिस्टर करवाना होगा। ऑन लाइन निविदा में भाग लेने के लिए डिजिटल सर्टिफिकेट इनफोरमेशन टेक्नोलॉजी एक्ट 2000 के तहत प्राप्त करना होगा जो इलेक्ट्रॉनिक निविदा में साइन करने हेतु काम आयेगा। निविदा दाता उपरोक्त डिजिटल सर्टिफिकेट सी.सी.ए. (CCA) द्वारा स्वीकृत एजेन्सी से प्राप्त कर सकते हैं। जिन निविदा दाताओं के पास पूर्व में वैध डिजिटल सर्टिफिकेट है, नया डिजिटल सर्टिफिकेट लेने की आवश्यकता नहीं है।

स- निविदा दाताओं का निविदा प्रपत्र इलेक्ट्रॉनिक फार्मेट में उपरोक्त वेबसाइट पर डिजिटल साइन के साथ प्रस्तुत करना होगा । जिसके प्रस्ताव डिजिटल साइन के साथ नहीं होंगे, उनके प्रस्ताव स्वीकार नहीं किये जायेंगे। कोई भी प्रस्ताव अकेले भौतिक फार्म में स्वीकार्य नहीं होगा ।

द- ऑन लाइन निविदाएँ निर्धारित दिनांक एवं समय पर उपरोक्त कम संख्या -3 के अनुसार खोली जायेगी ।

य- इलेक्ट्रॉनिक निविदा प्रपत्रों को जमा कराने से पूर्व निविदादाता यह सुनिश्चित कर लेवे कि निविदा प्रपत्रों से संबंधित सभी आवश्यक दस्तावेजों की स्कैन कॉपी निविदा प्रपत्रों के साथ अटैच कर दी गयी है ।

र- कोई भी टेंडर इलेक्ट्रॉनिकली जमा कराने में किसी कारण से लेट हो जाता है तो उसका जिम्मेदार विभाग नहीं होगा ।

ल- टेंडर के प्रपत्रों में आवश्यक सभी सूचियों को संपूर्ण रूप से भरकर ऑन लाईन दर्ज करें ।

(जी० एल० राव) २४-१-१३
मुख्य अभियन्ता (पथ)
सार्वजनिक निर्माण विभाग,
राजस्थान, जयपुर।