SERBINENT OF JAMMU AND AGORDA



PMGSY DEPARTMENT (JEK) JAMMU

DETAILED PROJECT REPORT FOR CONSTRUCTION OF ROADS PROPOSED UNDER

BHARATNIRMAN

IN BLOCK THATHRI

DISTRICT DODA

Name of the Scheme

Joura Khurd to Shamdlain

Length = 3.00 Kms PKG:-JK-04-286

= 297:29 60. Cost :- Rs .345-32 Lacs

> Chief Engineer, PMGSY (JERREA)

#### TECHNICAL REPORT



Name of State

District Block

Division
Name of Scheme

Length

Jammu & Kashmir

Doda

Thathri

PMGSY Division Thathri Joura Khurd to Shamdlain

3.00 Kms.

#### Preliminary :

India has essentially a rural oriented economy with 74% of its population living in its villages. In the year 2000, it was estimated that about 3, 30,000 out of its 8, 25,000 villages and habitations were without any all weather road access. It was against this background of poor connectivity that the Prime minister announced a massive rural roads programme under the name "PMGSY" to provide a better connectivity for rural development by way of promoting access to economic and social services there by generating increased agricultural incomes and productive employment opportunities.

Joura Khurd to Shamdlain is one such road which has been proposed to be taken up for construction under PMG5Y programme. This road is proposed to be taken up to connect the village Shamdlain having a target population of 268 souls.

#### Authority & Plan Provision:

The road falls in core network of District Doda Block Thathri having code JK-14- L-038. The proposed road falls at S.No. \_\_\_\_ of CNCPL for Doda District.

#### History Geography & Climate:

The road is "NEW CONSTRUCTION" Project. The people use locally made track presently to reach Shamdlain The people living in the area are mainly dependent on Agriculture produce, rearing of cattle live stock production & apiculture etc. The area has not been exploited due to non-availability of proposed motor able link.

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PMGSY Sub Division
Thathn

The topography of the area is hilly having a cross country slope between 25-60%. At places it is more than 70% also. The terrain thus can be classified as mountainous. The Geological features of the area are combination of hard soil, clay shale & hard rock in stretches.

The area falls under Sub-Tropical temperature zone as per climate and annual rainfall in concerned. The ambient temperature ranges between 30  $^{\circ}$  C

#### Necessity:

The project envisages the linking of Target habitation of village Shamdlain. The people of the area have represented for early taking up of this road so that at least all fair weather status road is made available to them.

The road is proposed to be executed using both machinery & labour.

#### Road features:

The alignment of the route has been selected keeping in view the fact that maximum benefit reaches the scattered habitations of the village Shamdlain and also keeping in view the connectivity criteria for hilly areas. The alignment passes through the safe zone with minimum cross-drainage works. The route has been so selected that heavy cuttings are avoided.

. The road passes through hilly terrain. The existing nature of soil classification varies in stretches and as such average classification km wise has been fixed.

### Environmental & Ecological Aspect:

While aligning the road it has been tried that minimum forest area / land is encountered. As the expected traffic to the area after construction of road shall be mainly public transportation with in permissible extent, there is no risk of increase in Air pollution/ Noise pollution in the area. Since no water sources are being encountered and those available are for from the proposed alignment, hence there shall be no adverse impact on quality of fresh water in the area during the construction process.

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After construction of road, the road side areas of forest shall get prone to clearing of road side vegetation for fire wood, grazing cultivation & development of new habitations which shall have to be controlled through proper law enforcement.

#### Road land, road way, carriage way & other X-sectional element:

Since this road is proposed in village road category the formation width of road shall be 6.00 m in straight reaches & 7.00 m on horizontal curves. The carriage way width shall be 3.0 m. A kuccha drain 0.60 m X 0.60 m shall be constructed along the hill side for effective storm water drainage.

#### Traffic:

The anticipated traffic on the road shall be 13 trucks/ Buses, 12 tractors/ mini buses, 25 cars, 10 two wheelers etc. The projected traffic after 10 years of completion of road shall be 70 commercial vehicles day.

Road Design & specifications: The road has been classified as village road & has to be constructed in ain with following design parameters:

oun	fainous terrain with followin	g aesign p	uniciers.
	Formation width	=	6.00 m
	Carriage way width	=	3.0 m
	Design speed	=	20.0 Km/ Hr.
	Stopping Sight distance	=	20.0 meters (min.)
	Clear road way width		
	on culverts & cause ways	=	6.00 m

Camber / cross fall specification 4% for shoulder 7% to 10%

Super elevation Between 15 m to 20m Minimum Radii of

[Due to restricted availability of Horizontal curves road land width]

Ruling gradient 5% with Vertical gradient exceptional 6% in stretches 15 M · Minimum length of

Vertical curves

Hair pin bends Min. radius for inner curve = 14

Asstt Executive Engineer Min. length of transition = 15 m PMGSY Sub Division Min. design speed = 20 km /Hr. Thathn

weather

Fair



#### Brief Specifications:

- Earthwork: The road is proposed to be constructed fully in cutting expect valley points. To improve geometrics of the road, walling shall be raised as per necessity at site. The ruling gradient has been proposed to be an average 5% to 6% with the exceptional gradient of 7% in some unavoidable stretches as per site conditions. The overall formation width has been proposed as 6.00 mtrs, including parapets & drains in straight reaches & average 6.50 mtrs on curves.
- · Drainage X-ing works : For an effective drainage of storm water, flow of small nallahs, one meter dia Hume pipe NP3 culverts & flush causeways have been proposed as per site conditions.
- 1.0 m dia Hume Pipe culvert: The drop wall, curtain wall & catch pit shall be constructed in M-15 grade concrete & approaches to be in semi-pucca specifications. Pipe shall be RCC NP3 specifications.
- RCC Culverts: The abutments of Culverts are proposed as per 5P:20 & shall be cast in M-15 grade concrete. The wing walls shall also be cast in M-15 grade.

The slab of culvert shall be laid in RCC M-25 grade nominal mix concrete as per design provided in SP-20. The approach walls shall be of semi-pucca Random Rubble Masonry.

Walling: Retaining walls/ Breast walls shall be constructed as per locations identified in location chart in semi-pucca specifications. The horizontal & vertical bands shall be laid in R.R masonry 1:5 mix & panels with dry stone masonry with hard stones of approved quality & firmly gripped with bond stone.

#### Cross Drainage works:

Asstt Executive Engineer

The drainage of this road has been planned in such a way that least interference, with natural drainages is ensured. Most of the cross drainage structures have been proposed on natural drainage points in the form of 1.0 m dia Hume pipe culverts, 2.0 mtr span RCC Culverts, , keeping in view the catchments area of these points as well as

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expected run off from the road. The general criteria adopted for drainage structures is

1.0 m dia Hume pipe for catchment area upto 10.0 Hectares 2.0 m RCC culvert for 25.0 to 50.0 Hectares 6.0 m Long Scupper for 101 to 125 Hectares.

## Materials, labour & Equipment:

The construction material viz cement, steel, crushed stone aggregate, sand & stone shall have to be brought from outside sources due to non-availability of the material at site. The stone which shall be available from local blasting shall not be suitable for masonry work.

The material for construction to site shall be transferred in Trucks/ Tippers etc, From source to site of work as per detail mentioned in the carriage chart.

As the major component of the project is earthwork, shall be primarily done by machinery both skilled & unskilled labour required for concrete are masonry works is available locally & near by areas. The space for construction of housing facilities for labour is also available / can be arranged temporarily in the area.

As the work is proposed to be executed through contractors through National Bidding for full road length, the eligibility criteria fixed for contractors envisages deployment of sufficient machinery for execution.

#### Rates:

The schedule of rates prepared on the basis of Standard Analysis Data book for construction of Rural Roads issued by NRRDA, New Delhi for the year 2008 for Jammu Region has been adopted for working out the estimates of the work.

#### Construction Programming:

The work is proposed to be executed through Contractors and completion period specified is 18 months for works above 600.00 lacs. The construction schedule is subject to the availability of proprietary & forest land in time. Miscellaneous:

As the project envisages construction of new road through contractors in two phases, the necessary arrangements for temporary work sheds, water supply etc shall have to be done by the contractor. Regarding road side plantation, turfing for environmental protection, it shall be planned during the taking over of Phase-II of road i.e. construction of sub grade, base course & wearing surface of the road.

Assit Executive Engineer PMGSY Sub Division

Any finish such as volice of antiquity coins, fassile or other articles of volve shall be promptly delivered to authorized functionary of the Jak Govt. Estimated cost:

The total estimated cost of the project shall be Rs. 297.29 Lacs draitability of kinds

The rossi alignment passes through pvt, land. The pvt, land shall be made available by the local psinchayat as people had agreed to provide the land for construction of rossi.

Certificate:

Certified that this road is a constituent of core network and has not been included in any other plan

Assistant Exhauther Engineer, PMGSY Sub-Division Thothri

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Assit Executive Engades
PMGSY Sub Division

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#### CALLON CHART OF C.D WORK OF JOURA KHURD TO SHAMDLAIN ROAD UNDER BHARAT NIRMAN (PMGSY)



Kn	1	RD		HP Culve	rts	2 Mtrs. Culvert	3 Mtr Culvert	Scupper	Bridge	
Ist K	m	0-200	)	1 No		-	-	-		
		400-4	60	-			- 1 No		•	
		600-6	25	-			1 No	-		
		950- 1000		1 No.	1	11.	-			
2nd Kn	1	200-2	50	1 No	1	-	•	-		
		540-57	75	-	1	-	1 No	7.		
		700-77	5	1 No	+	-	-	-	-	
	1	800-82	5	1 No	1	-	-	-	-	
	1	850-87	5	1 No	1	-	-	-		
	1	900-950	1		T	-	1 No	-		
3rd Km	1	0-50	1	. No	-	-	-	-	-	
	5	50-100	1	No		-	-	-		
	2	60-300	1	No		-	-	-		
	3.	50-400	1	No		-	-			
	60	00-675	11	Vo	-	-	-	-	-	
	70	0-775		-	-	. 1	No	-	-	
Total			11	Nos	_	-	95			

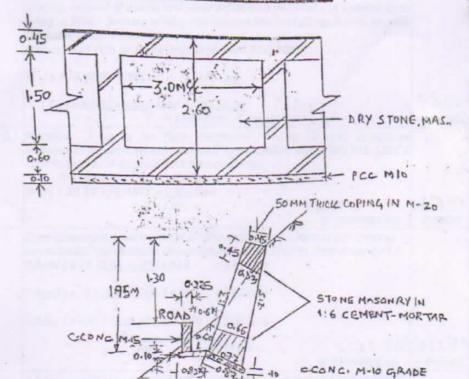
H.P Culverts:- 11 Nos 3 Mtr Span Culvert:-05 Nos

Assistant Executive Engineer PMGSY Sub-Division Thathri

Asstt Executive Engineer PMGSY Division
Thathri PMGSY Sub Division
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DRAWING FOR CONT. OF BIWALL OF AV.

## HEIGHT : 2.55M.



SOMM THICK FLOORING IN M-20

Assit Executive Engineer

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ASSTT. EX. ENGINEER Ex. ENGINEERS PMGST DIVISION

## DETAILED ESTIMATE FOR THE CONSTRUCTION OF BREAST WALL (2.55 MT. HEIGHT IN Road Joura Khurd to Shamdlain

S.No	Particulars of Items	Amount
1.	Earthwork in excavation for structures as per drawing and technical specifications clause 305.1 including setting out construction of shoring 8 bracing, removal of stumps and other deleterious material and disposal up to a lead of 50Mtr. Dressing of sides and bottoms and back filling in trenches with excavated suitable material.  Ordinary Soil 70% Ordinary Rock 20%, Hard Rock 10%  = 1 x 10.0 (0.75+0.98) x 1 = 8.65 Cum  2 = 1 X 10.0 X(0.25+0.85) x0.82 = 4.51 Cum	2
	Providing / Laying for Plain /reinforced concrete in open foundation complete as per drawing and technical specifications clause 802,803, 1202 & 1203 PCC grade M-10 grade (1:3:6 nominal mix).  1 x 10.x 0.87 x 0.10 = 0.87 Cum  Drain = 10 X 0.10 X 0.825 = 0.825 Cum  T = 1.69	6793.8
3.	@ 3645.0046	6160.05
7	Stone Masonry in cement mortar for sub-structure complete as per drawing and technical specifications clause 702,704, 1202, 1204 in cement mortar 1:5  3.Band 1 x 10 $(0.66 + 0.77)$ x 0.60 = 4.29 Cum  2  T Band 1 x 10 x $(0.45+0.53)$ X 0.45 = 2.20 Cum  2  Band 4 x 0.45 x $(0.66+0.53)$ x 1.50 = 1.60 Cum	
	Total = 8.09 Cum 353 3.78 @ 3040.00/Cum	24593.60
1	R Masonry laid dry for sub-structure complete as per drawing and technical pecifications clause 702,704, 1202 & 1204 x 10 x (0.45 + 0.87) x 2.55 = 16.83 / Cum  2  educt Pacca Masonry vide item (3) = (-) 8.09 Cum  Net = 8,74 Cum  2 3 65 - 5	2135.06.
80	mplete as per drawing and technical specifications clause 802,804, 805, 806, 7,1202 & 1204 PCC grade M-20 [1:2:4] Nominal mix  1 x 10 x 0.45 x 0.05 = 0.225 Cum  ain = 10 X 0.60 X 0.05 = 0.30 Cum	599.7>.
cor	oviding concrete for plain / reinforced concrete in open foundations implete as per drawings & Technical specifications Clause 802, 803, 1202 & 203 (P.C.C Grade M-15 Nominal mix 1:2.5:5) in Edge: 10.0 X 0.225 X 0.60 = 1.35	62.00.
a) ( Q (2) (3) (5)	riage of material by M.T from source to site of work incl. loading unloading inplete Carriage of sand 40 Km ty. Vide item No.  1.69 Cum @ 0.462 / Cum = 0.78 Cum  8.09 Cum @ 0.35 / Cum = 2.83 Cum  0.525 Cum @ 0.45 / Cum = 0.23 Cum	151.85.

60		
b) Carriage of stone ogg. for an av. Distance of 40 Km of Qty. Vide item No.  (2) 1.69 Cum @ 0.924 / Cum = 1.56 Cum  (5) 0.525 Cum @ 0.96 / Cum = 0.50 Cum  (6) 1.35 Cum @ 0.90 / cum = 1.21 Cum  Total = 3.27 cum	683.14.	2259.57
c) Carriage of RR Masonry / Stone (Av. 9Km) Qty. vide item No. (3) = 8.09 Cum (4) = 8.74 Cum T = 16.83 Cum 12.8.7 × 50 %	286.93 @ 190.207 Cum	3692.
d) Carriage of cement av. distance of 260 KM. from Jam Qty vide item No. (2) 1.69 cum @ 0.250 MT / Cum = 0.422 MT (3) 8.09 Cum @ 0.092 MT / Cum = 0.744 MT (5) 0.525 Cum @ 0.33 MT/ Cum = 0.173 MT (6) 1.35 Cum @ 0.275 MT/Cum = 0.371 MT T = 1.71 MT	@ 1605:00/MT	2612.6 2 <del>744.5</del> 5
	7 RM Length =	70149.

Asstt. Executive Engineer
PMGSY Sub-Division
Thathri

Executive Engineer PMGSY Division . Thathri

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# BHARAT NIRMAN ( PMGS: PACKAGE SUMMERY

From To Shamdlian New 3.00 km (42.3) 16 (55t of CD)  Proposed Cost of No.of Cost of CD & CD				The second secon		The state of the s	UOLIOL	TOTA OF ALL		
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Type of Proposed Cost of No. of Control		Protection &	Work	Pavemen t	1	Proposa				0
CONTROL STITUE	1	Contraction	None	Cost of	Proposed	Type of	wome of Road	Surner	Block	>

Prepared by: Signature : Name :

Designation

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PMGSY logo & sign board

=1.32 Law

Grand Total = 297-29 Louis

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PMGSY Sub. Division Thathri Assistant Executive Engineer

Scrutinized by: Signature

Name: Raman Ash

Designation: Superintending Engineer, Circle Batote.

Designation : Name : Signature

Executive Engineer, Ishwar tar Bhagat

Thesy Division, Thathri

Technical Scrutiny done by Simmeric. Name .

a) Carriageway

m we shut ob Area (m)

In the Open Area

5

PRADILAN MANTRI GRAM SADAK YOJANA (PMGSY) Proforma C. CHECK LIST FOR P.I.U. & S.T.A. (For Individual Road Works) To be filled by PIU Location: Package No.: JK04- 286 State. j&K 3. Name of the Road: District : Total Length (Km): 3+00 From Jourakhurd 4 Estimated Cost (in lacs): 297-29 In built yup area: To Shamd lian In Open Area Average Cost: Item Total Cost Cost per Km Flexible Pavement (in lacs) Protection work Lacs Other Type of proposal: - If the proposed road is a New Connectivity Total New connectivity/Up gradation - Is the road a part of core network 297.29 - if yes Through Route/Link Route No. Name of the unconnected Target Habitation (s) (to be) crosschecked with CN-6) T-Population sub served by the proposed road = (382) Kemega & Shamdlian L ô 8 Does the proposed road lead upto the Habitation for which it is supposed to provide connectivity (In other words are you 268 sure that the road is not being made partially?) Does the Proposed Road connect the unconnected Habitation to YES/NO a) Another habitation having All-weather road b) Directly to an All weather road (f (b) indicate the nature of road to which the proposed road If the proposal is for up gradation is the road a part of the core network MDR - is it associated Through Route or Not SH N.A NH - PCI Value YES/NO - Age of the road YES/NO - Is it certified that there are no other unconnected YES/NO Eligible Habitation in the district 7 e) Whether the proposed Road has desired carriage way width, Roadway width and Road Land Width (RLW) b) Indicate the actual widths of the YES/NO following for the proposed road YES/NO In the Built Up Area (m) a) Carriageway In the Open Area b) Roadway 3.00 (m) c) Road Land Width 5.00 Pu 3,00 6 00 pag Varies index Map (not to scale): Sheet attached 12.00

Name of the Road J Five year Routine Maintenance Year Cost in lacs % Cost Cost/Km 11 HI IV Total Maintenance Cost 11. Whether the road has Geometrics as per Rural Manual RRM/ atest Circulars of NRRDA 12. Whether C.D. Works/ Protection Works are provided as per RRM/ Latest Circulars of NRRDA/ Respective Codes Whether the Cost estimates area 14. Source and the lead distances of Materials are as under: Material Source Lead Material Source Lend Distance Distance Earth 9 Kms Local Cement Jamnus 260 Kms Murrain Emulsion Aggregate Thathri 49 Kms Bitumen Sand Thathri 49 Kms Jammu 260 Kms Steel Certified that information provided is true Prepared by Checked By Scrutinized by Asstt. Ex. Eligineer Executive Engineer PMGSY Division Superintending Engineer PMGSY Sub Division PMGSY Circle Thathri Nathri Batote

Counter Signature of Co-ordinator STA

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distance of	th Work in the		Thick	ness	Quantity		
Eart	th Work - in Excavation/ Cutting th Work - in Filling (Embankment) grade (if provided	in m	im	Samuell	1.00		
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		-				-	
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	nature of improvement	- specify the		No			
*	Do they require any improvement nature of improvement proposed if yes, there blanches	- specify the		No			
	If yes, there Number and Cost of it	pprovement		No			
	If yes, there Number and Cost of it	pprovement	r Nos.		Lorest of		
	If yes, there Number and Control	specify the  sprovement  Type of CD & their	r Nos.	Total	Length of	Cost in	7
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oad Logs	If yes, there Number and Cost of it  Location-Chairange (Shaffar Type of CD's may be proped fogether)  Total Cost of Proposed CD Works  Works: (R/M > 3/2 = 95, 4 M/2 = )  Drain (if Provided): Length = C  O, other Road Furniture	Type of CD & their  Type of CD & their  Type  1.0 m dia Hame pipe culvert  Jantra span culvert 6 antra long scupper	No.	Total Bridg	est in (lucs)	13. 43 48.60 72.03	09
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oad Logs	If yes, there Number and Cost of it  Location-Chairage (Similar Type of CD's may be groped together)  Total Cost of Proposed CD Works  Works: (Rim > 1/2 = 25, 4 mlz = )  Drain (if Provided): Length = C  p. other Road Furniture	Type of CD & their  Type of CD & their  Type  1.0 m dia Hame pipe culvert  Jantra span culvert 6 antra long scupper	No. 11 05 1	Total Bridg	ost in (lacs)	100 100 100 100 100 100 100 100 100 100	09

Five year Routine Maint			ALC: NO				
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		IV				-	
	-	Total Maintenance					
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Whether C.D. Works/	Protection Wo	ks are movide	d on tree 1219 Ad/				
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Sand	Thathri	49 Kms	Steel	Jamn	76	b Kms	
tified that information po					20	u Kins	
Prepared by  Assit. Ex. Engineer PMGSY Sub Division Thathri	Executive PMGSY	Engineer Division	Superintendi PMGSY Bate	Circle	ý.		

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Name of the STA:	To be filled by State Technical Agency	
Name of Roads Law 12	do show III	
Name of Road: Joura Khur	G W Statisting	
12 the Lighors	d Road entered on the OMMS:	
		Yes/N
if the Proposal i	is for new connectivity	1
riave you satisf	les vourealfiles d	Yes/N
is the unconnect	ted habitation (s) part of list of more and the Core Network	
. Does the Propos	ted habitation (s) part of list of unconnected habitations as per CN-6 all ensure full connectivity to Target Habitation me of Unconnected Habitation	You'N
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Are you satisfie	of with the following	YestNi
resiliances mile om.	veve /s	Yes/No
Soil/ Material In	(CBR, Density, LL, Pl, Gradation to be verified)	.Yes/No
Traffic Surveys/	Estimation (State of the State	Yes/No
Hydraulic Studie		Yes/No
Location 1	structures with more than 2 Vents to be verified from topo sheet	-Yes/No
I Location and req	purement of all CD Structures to be verified from L section.	
in case, Haffic is	s project beyond T 4 Category are you satisfied with reason given by	
9 In ourse and a	gos, are you satisfied with reason given by	Yes No
in case, sub grade	CHR is less than I be a decided	
(If not, specific R	easons given by PIU)	Yes/No
is the design of th	re following elements as per Rural Road Manul/ Circulars of NRRDA:	
Alignment & Geo	inetries Circulars of NRRDA:	
Location and type	of CD works and	JE No
THE HIBITS		J'et/Nn
is the closure of	oss and Longitudinal Drainage Protection works	Yesi No
Parameter design of	flexible pavement as per IRC SP: 72-2007 and design of Rigid	Yes No
Dinne the Call	RC SP:62-2004 and design of Rigid	Yes-No
current of	ion Conform to Standard Rate Analyse and SSR generated for the	
Does the product	you and SSR generated for the	Yas' No
PMCSV Lorge Star	have provisions for	
Km/Hm Stottes	n Boards and Information Board	4.
Guard Stones (who		30
Traffic Sign Boards	are necessary)	Yusi No
Secific Remarks, it	(as necessary)	Ybs/ No
- certains, i	rany by STA	Yes No
	Slage-1-	1
Langth of	said read as per core Network = 4.0 km, how	
	come as per core Netwerk = 4.0 km how	ews
PEU has	proposed a length of suplement	,
	proposed a length of Broken to reach larget to	
tified that the Design and I		
Engineers. The proposal a	for final consection of the proposed Road work are base, on the date and CED	
lance.	estimation for the proposed Road work are base. on the data and SSR offer final correction is entered on the OMMS. The proposal may be co	invited by
		msiddled of
hnical Scrutiny at STA do	ne by:	
Signature	Constitutions	200
	Co-ordinator STA:	
Name	Signature 29:11-301>	
	SIGNATURE 42:11:3015	