# Format for information to SQM for Inspection of PMGSY Work PART I- Work Information (To be filled-up by PIU)

	work is Ongoing   Completed
GEN]	ERAL:
1.1.	Date of Inspection DD MM YY MD. SUHAIL. EE (RWD) BENI
1.2,	Name of State Quality Monitor:
1.37	District: Madhubani Block: Andhrathari
1.4.	Name of Road: From To2 to THATHRI
1.5.	Package No.: BR-21R-631
1.6. Total	Length:Km Flexible Pavement,Km. CC/other Pavementm. =
1.7.	Estimated Cost (As cleared by GOI): Rs. 318.30 Lakh
1.8.	Technical Sanction Cost: Rs. 318 · 30 Lakh
1.9.	The Work is a Case of: New connectivity Up gradation
1.10.	Terrain Plain Rolling Hilly
1.11.	Date of Start of the Work: 10 04 18
1.12.	Stipulated Date of Completion: 09 04 19
1.13.	Actual Date of Completion (if work completed):
<b>2.</b> Progra	PHYSICAL PROGRESS: (In case of On going works only) Construction imme and Physical Progress:

Item	Completed	Dates for	Start	Completion	Delay in
	percentage of Item	completion	Date	Date	Months
Earth Work	90 y.	Due	5		
<del>-</del>	١,١٠١٠	Actual			
CD Works	25	Due			<del></del>
	25	Actual			
Sub base i/c	Tay	Due			
Shoulders	70%	Actual			
Base Course (Non	20%	Due	8810 000	<del>†                                      </del>	
Bitu.)	20/.	Actual			
Base /Wearing		Due		-	<del> </del>
Course(Bitu.)	190	Actual			
CC Pavement	20%	Due		-	
	<b>A</b> -7	Actual		<u> </u>	<u> </u>
Signage etc	254.	Due			
	4) '	Actual	<del></del>		

#### 3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory:
- 3.2. Quality Control Register Part-I is maintained by:
- 3.3. Quality Control Register Part-II is maintained by:

## 4. INSPECTIONS BY NQM, SQM or SENIOR OFFICERS AND ACTION

#### \* \* TAKEN:

Inspection by NQMs, SQMs and senior (i.e. SE or CE) departmental officers and action taken statement:

taken statement.								
Date of Visit	Inspected By	Observations	Action Taken by PIU with Date					
		y.						
		-						
	1							
18			,					
04								
	Į							

Name and Signature of the Head of PIU, Date:.....

# Report of State Quality Monitor (SQM) PART II- Observations of SQM for Ongoing/Completed Work

(To be filled-up by SQM, use additional sheets, if required.)

		Sta	ge of Work:	III	Ш			
1.	SETTING OU	T AND W	ORKING DR	AWING	: <u>F</u> o	r all stage	s of w	<u>vork</u>
#*;	Whether Exact Bench Loca marks @ 4 the per km Mark established (Y/N)	tions of Bench		y accurat ith Mar Chain	tely and ker	prepared Drawing	for progr	ress is
	Y At.	Site				γ	1000	
Gr sug	rading: Grade: S S	SRI U I	f this item is g	raded SI	RI/U,	, write clea	ar reas	sons and
2.	SITE CLEARA	ANCE AN	D_GRUBBING	G: <u>For S</u>	tage	I of Worl	<u> </u>	
#	Whether Clearing Grubbing being as per DPR Material obtained being disposed properly (Y/N)	done av and sca ed is or off ca	hether the railable arifying existing clearing open be salvage used (Y/N)	from g work crations	obta scar appr	ne the reuninable fro iffication roximate case by the l	m cle and Juanti	arance or indicate
	Y		_			-		-
	Grading: Grade S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:							
				5				

## 3. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - For all stages of work

Observations about Field Laboratory:

#	Whether Fieldsboratory Established (Y/N)	ld List the equipme available.	whether adequate Equipments as per requirement of work are available and are being used.  (Y/N)
3 54	N		N

Observations about Mandatory Tests - Detail out the quantities of various items of works and list the tests required. (Refer to abstract of QC Register Part-I)

	Item of Work Executed	Quantity	Name of Test	No. requi	of Tests red	No. of Tests Conducted by PIU/Contractor
#	quantities whether	all I main tests provis	her QC Registentained as per sions.	<u></u>	II maintai results mo provisions	QC Register Part ned and test onitored as per s. Partly No

Grading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:

**4. GEOMETRICS:** The SQM should take at-least two measurements in 1 Km length and if it is found that the roadway and carriageway is inadequate SQM may take more observations:

Observations -Road way width, Carriage way and Camber.

Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
0:250	5.00	3.75	3 <b>y</b> .				

Observations - Super-elevation and Extra Widening at curves.

Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
<u> </u>			Pro	9268	
		work	, NO	J	
				38000	

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	<i></i>

## OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

#### 5. Earthwork:

Observations -Quality of Material for Embankment/ Sub-grade:

#	Location (RD)	On Visual Classification identify the Group Symbol and write	Quality of material is acceptable. (Y/N)

	Grade: uggestions f	S U	] I vemen	f this item i	s graded U, writ	e clear reasons	and
4	: *		•				
Ob	servation –	-Workma	nship	for Embar	nkment and Sul	b-grade Consti	ruction:
#	Location	MDD k	$N/m^3$	Field	De	gree of Compac	tion
 	(RD)	(As precor		Moisture Content	Field Density kN/m <sup>3</sup>	Dry Density kN/m <sup>3</sup>	Compaction adequate. (Y/N)
							_
				8 1			
		<u> </u>					
			-				
				23	ā.		
_ ~	rade: S provement:	<b>U</b> If t	this ite	m is_graded	U, write clear r	easons and sugg	gestions for
)bse	ervation – S	Side slope	es and	profile:			
#	To amend (141)   WHEL		ether Side Slopes isfactory (Y/N)		Whether profile Satisfactory (Y	e is /N)	
			.,.x	nk im	Progress		
	<del></del>					-	

### Observations - Earth work in Hilly/Rolling terrain or high Embankments:

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	Formation is properly dressed and traffic worthy. (Y/N)
3			

#### Observations - Longitudinal Gradient in case of road in hilly/rolling terrain:

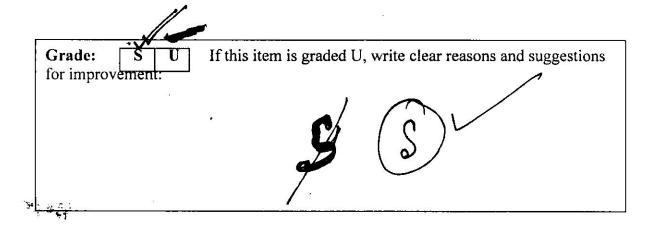
Ref. Between RD& RD	Longitudinal Gradient	S/U	Ref. Between RD& RD	Longitudinal Gradient	S/U

Grade: S U If this item is graded U, write clear reasons and suggestions for
improvement:
-

#### 6. Sub-Base:

#### Observations - Quality of Material and Workmanship:

#	Location (RD)	Confirms to Grading. (Y/N)	Suitable from plasticity angle. (Y/N)	Whether compaction is adequate.  (Y/N)	Observed Thickness of Layer (in mm)	Prescribed Thickness provided (Y/N)
	0-250					
	0.250	Ŋ	N	N	100	N



#### 7. Base Course:

#### Observations- Quality of Material and Workmanship of WBM:

#	Location	Thickness	Thickness	Aggregate	Filler	Volume of	Whether
	(RD)	of each	is	confirms to	material is	filler	adequate
	(RD)	layer of	adequate.	Grading	non-plastic	material	compaction
		WBM	(Y/N)	(Y/N)	to desired	percent of	is done.
11	85	(mm)			extent.	course	(Y/N)
					(Y/N)	aggregate	
	0.250	75	Y	У	У		1
				,	7		7
						51 Francisco Paris	
		10 10					

Observations - Surface evenness: Surface evenness in about 200 m critical representative length of completed WBM:

Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:

8. Bituminous Course: Premix Carpet/Surface Dressing/ BM/ MPM etc including Seal Coat: Observations - Quality of Material and Workmanship of BT Layer (in case of ongoing works):

**Observations** about level of cleanliness of WBM surface prior to application of bituminous layer. (if work is ongoing observe the surface. If BT layer laid, assess by carefully removing the BT layer.):

Observations about Quality of Prime Coat and Tack Coat with respect to quality of material and workmanship - Visual Observation - if work is ongoing:

NA

In case of PMC/BM/MPM/ Seal Coat

_ III (	case of Thire	ADMINITING 2	ear Coat		
#	Location	Whether	Whether the	Write Mixing	Write Laying
!	(RD)	Course	binder is of	Temperature	Temperature
		Aggregate	approved grade.	and whether it is	and whether it
		confirms to	(Y/N)	in permissible	is in
		grading.	440.4. 10.6411	limits. (Y/N)	permissible
		(Y/N)		1000	limits. (Y/N)
-		1			

•

Observations - Workmanship of BT layer PMC/BM/MPM (in case of completed works):

#	Location	Th	ickness	Whether surface evenness is	
	(RD)	Tri i i	within acceptable limits. (Y/N)		
_			-		

$C = I \setminus G \mid_{YY} $	
	If this item is graded U, write clear reasons and suggestions for
improvement,	
	NA
	Grade: S U improvement:

## 9. Observations - Quality of Shoulders:

#	RD of observation	Thickness of layer in mm	Whether quality of the material is acceptable. (Y/N)	of compaction workmanship is	Whether Shoulders being constructed simultaneously with sub-base and base course (Y/N)
			pork in	Progress	

## 10. Cross Drainage Works: Observations - Quality of CDs:

#	RD at which CD is located	Type of CD	Whether quality of the material is acceptable. (Y/N)	Whether quality workmanship acceptable. (Y/N)	of is
W. 3	; ; • <del>†</del>				

Grade: S SRI suggestions for impr	U If this item is graded SRI/U, write clear reasons and overment:
	NA

## 11. Side Drains and Catch water Drains: Observations:

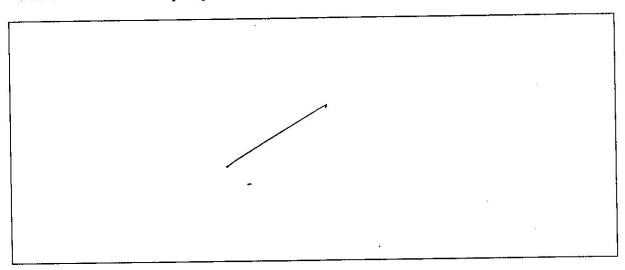
#	Reference of RDs where side drain constructed.	Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	Whether side drains are integrated to cross drains. (Y/N)

Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:
NA
No.

## 12. CC/ Semi-Rigid (SR) Pavements and Associated Pucca Side Drains:

#	Reference of		Thickness		General	General of
	RDs, CC/SR Pavements provided.	which observation on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable(Y/ N)
***	10 1. 5†					

Comments about adequacy of face/main walls, wings and retaining walls:



Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
-	

13. Road Furniture and Markings	
Observations - Item No. 14 a: Quality Road For Main Informatory Board Fixed:  Citizen Information Board Fixed:  Yes N	No.
Grade: S U If this item is graded U, with improvement:	vrite clear reasons and suggestions for
Observations - Quality Road Furniture and M	arkings:
13.1.1. Logo Boards Fixed:	Yes No
13.1.2. 200m. Stones fixed:	Yes No
13.1.3. 1 Km. Stone fixed:	Yes No work im Pro
13.1.4. Guard Stones fixed on Curves:	Yes No
13.1.5. Mandatory and Cautionary Signage	Yes No
Grade: S U If this item is graded U, wi improvement:	rite clear reasons and suggestions for

- 14. General Observations of SQM, (including the observations made during the interaction with PIU staff and Contractor's/ Consultant's Engineers):
  - 14.1. Observations about deficiency in project preparation (Give detailed observations about deficiencies in general and items which have been left but are required as per site conditions):

14.2. Whether the work has been completed/is in progress as per work programme or the delay has occurred. If delay has occurred, whether the liquidated damages have been withhold or recovered:

14.3. Whether the work has been completed within the sanctioned cost, if not, what is the action taken by the PIU (in case of complete works):

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14.4. Observations about the action taken by the PIU on the observations of inspecting officers including SQMs and NQMs. (Clearly offer comments about the action taken on the observations of Departmental Officers, State Quality Monitors and National Quality Monitors).

14.5. Comments about difference in observations made by NQMs/SQMs in earlier inspections (the NQM shall study the earlier inspection reports of NQMs / SQMs, if any and offer his clear comments about the differences in observations, if any).

15. Other observations, if any:

The work already delayed & the sesidual work should be completed immediately.

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34

16. Quality Grading of items and sub-items of work: The grading of every sub-item and item of work is given below.

#	Sub Item for Observation	Stage of Work	Awardable Grades	Awarded Grades
1	2	3	4	5
	Item 1 – Setti	ng Out and Working Dra	wing	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	
<b>6</b> 1	Availability of Working Drawing	All Stages	S/SRI/U	5
77		Item Grade	S/SRI/U	5
	Item 2 – Si	te Clearance and Grubbir	ıg	_
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	10 S A 40 S
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	200 TV 10
		Item Grade	S/SRI/U	
	Item 3	- Quality Arrangements		
a	Quality Arrangements	All Stages	S/SRI/U	SRT
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	
c	Maintenance of QC Registers	All Stages	S/SRI/U	SRI
		Item Grade	S/SRI/U	SRI SRI
	Ät	em 4 – Geometrics		
а	Road way width	2 per Km in every inspection	S/U	ν
b	Carriageway width	2 per Km in every inspection	S/U	V
c	Camber	2 per km	S/U	V
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	U
		Item Grade	S/U	U
	Item 5A - Earth Work a	and Sub-grade in Embank	ment/ Cutting	
а	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	\$
b	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	5
c	Side Slopes and Profile	2 per km in Stage III	S/U	S

-	<del> </del>			
	Item 5B - Earth Wo	rk in Cutting in Hilly/Rol	ling Terrain	
а	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	5
b	Adequacy of Slope Protection	All Stages - In general	S/U	5
Upon completion of formation cutting, dressing, traffic worthiness		At Stage III, at 2 critical locations with maximum height of cutting in each km	S/U	5
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	5
		Item Grade	S/U	S
320-20		Item 6 - Sub-Base		
	Quality of Material			1
a	Grain Size	In Stage- II or III, 1 per	S/U	
b	Plasticity	km		a
c	Compaction	In Stage- II or III, 1 per km	S/U	2
d	Total Thickness of Layer	2 per Km	S/U	
		S/U		
	Item 7 - Base C	Course – Water Bound Ma	cadam	
a	Grain Size of Course Aggregate		S/U	S
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	In Stage- II or III, 1 per km	S/U	
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	
d	Surface Evenness using straight edge	In completed WBM 2 tests per kin	S/U	
е	Thickness of every layer of WBM.	2 per Km	S/U	5
		Item Grade	S/U	5

Level of cleanliness of WBM surface prior to application of bituminous layer   1 per Km					
a surface prior to application of bituminous layer  Description  Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship  Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work  Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)  End Bitumen Extraction Test if PMC is complete  I test on the day of inspection  S/U  I test on the day of inspection  S/U  S/U  S/U  I test on the day of inspection  I test on the day of inspec		Item 8 - Bituminous Layer -	Premix Carpet (PMC)/ Su	rface Dressin	g (SD)
Coat with respect to quality of material and workmanship  Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work  Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)  Bitumen Extraction Test if PMC is complete  Thickness of layer  Surface Evenness in case of completed BT work  A Quality of material for shoulders  A Quality of material for shoulders  Degree of compaction  In Stage- II or III, 1 test per Km  C Thickness of layer  Thickness of layer  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per Km  C Thickness of layer	a	surface prior to application of	1 per Km	S/U	,
Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work  Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)  Bitumen Extraction Test if PMC is complete  Famour of the work in the item is ongoing)  I test on the day of inspection  S/U  S/U  S/U  I test per Km  S/U  Famour of the work in the item of mixing and laying (if the work in the item is ongoing)  I test on the day of inspection  S/U  S/U  Famour of the work in the item of mixing and laying (if the work in the item of mixing and laying (if the work in the item of mixing and laying (if the work in the day of inspection  S/U  S/U  Famour of the work in the item is ongoing)  I test on the day of inspection  S/U  S/U  S/U  Famour of the work in the item is ongoing of inspection  S/U  Famour of the work in the day of inspection  S/U  S/U  Famour of the work in the day of inspection  S/U  S/U  Famour of the work in the day of inspection  S/U  S/U  Famour of the work in the day of inspection  S/U  Famour of the work in the day of inspection  S/U  S/U  Famour of the day of inspection  S/U  S/U  Famour of the day of inspection  S/U  S/U  Famour of the day of inspection  S/U  Famour of the day of the day of inspection  S/U  Fa	b	Coat with respect to quality of		S/U	
temperature at the time of mixing and laying (if the work in the item is ongoing)  c Bitumen Extraction Test if PMC is complete  f Thickness of layer  g Surface Evenness in case of completed BT work  Item Grade  Quality of material for shoulders  a Quality of material for shoulders  b Degree of compaction  Thickness of layer  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  Thickness of layer  Thickness of layer  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per km  Item Grade  Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 in span.	65	Aggregate (if the work in the item is ongoing)/visual observation in case of		S/U	
Thickness of layer  Thickness of layer  2 per Km  S/U  Surface Evenness in case of completed BT work  Item Grade  Quality of material for shoulders  a Quality of material for shoulders  In Stage- II or III, 1 test per Km  Degree of compaction  Thickness of layer  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  Thickness of layer  In Stage- II or III, 2 tests per Km  S/SRI/U  Item Grade  S/SRI/U  Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 uspan.	d	temperature at the time of mixing and laying (if the work		S/U	NA
g Surface Evenness in case of completed BT work  Item Grade S/U  - Item 9 - Shoulders  a Quality of material for shoulders  b Degree of compaction  Thickness of layer  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  In Stage- II or III, 2 tests per Km  In Stage- II or III, 2 tests per km  In Stage- II or III, 2 tests per km  Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 respan.	e		1 test per Km	S/U	
Completed BT work   2 per Km   S/U	ſ	Thickness of layer	2 per Km	S/U	
- Item 9 – Shoulders  a Quality of material for shoulders  b Degree of compaction  c Thickness of layer  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  In Stage- II or III, 2 tests per km  In Stage- II or III, 2 tests per km  S/SRI/U  Item Grade  Item 10 - Cross Drainage Works – Causeways of all spans and Culverts upto 6 is span.	g	FOR CONTROL OF STREET AND STREET CONTROL CONTR	2 per Km	S/U	
a Quality of material for shoulders  b Degree of compaction  Thickness of layer  In Stage- II or III, 1 test per Km  In Stage- II or III, 1 test per Km  In Stage- II or III, 2 tests per km  In Stage- II or III, 2 tests per km  S/SRI/U  Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 is span.			Item Grade	S/U	J
shoulders  b Degree of compaction  c Thickness of layer  In Stage- II or III, 1 test per Km  In Stage- II or III, 2 tests per km  Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 is span.		- 1	tem 9 – Shoulders	•	
c Thickness of layer In Stage- II or III, 2 tests per km  Item Grade S/SRI/U  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 is span.	a		_	S/SRI/U	
Thickness of layer  In Stage- II or III, 2 tests per km  S/SRI/U  Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 is span.	b	Degree of compaction		S/SRI/U	MA.
Item Grade  Item 10 - Cross Drainage Works - Causeways of all spans and Culverts upto 6 span.	c	Thickness of layer	In Stage- II or III, 2 tests	S/SRI/U	
span.					
		Item 10 - Cross Drainage Works		and Culverts	upto 6 m.
Quality of Material - Concrete,			span.		
a Stone/ brick masonry, Hume pipes including size etc.  All Stages S/SRI/U	a	Stone/ brick masonry, Hume	All Stages	S/SRI/U	
Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.  All Stages  S/SRI/U	b	as positioning of pipes, wing walls, cushion over H Pipes	All Stages	S/SRI/U	PVA
Item Grade S/SRI/U			Item Grade	S/SRI/U	

	Item 11 - Side	Drain and Catch Water I	) Prain	1
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	AN
		Item Grade	S/SRI/U	
2010	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pukka Dr	ains
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III,1 per 100 m. Length of Pavement	S/U	_
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
	140	Item Grade	S/U	
	Item 13 - Re	oad Furniture and Markin	igs	
а	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	5
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	im Prog.
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	5
		Item Grade	S/U	C

17. Overall Grading of Work: The overall grading calculated on the basis of item and sub-item wise grading is given below:

Item No.	Sub Item for Observation	Awarded Grade	
Item No 1	Setting Out and Working Drawing	•	
Item No 2	Site Clearance and Grubbing	<	
Item No 3	Quality Arrangements	1)	
Item No 4	Geometrics	0	
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	5	
Item No 5 B	Earth Work-in-Cutting in Hilly/ Rolling Terrain		
Item No 6	Sub-Base	8	
Item No 7	Base Course - Water Bound Macadam	<u> </u>	
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	<u></u>	
Item No 9 Shoulders			
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.		
Item No 11	Side Drain and Catch Water Drain		
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains		
Item No 13	Road Furniture and Markings		
Overall Grading SR			

Signature:	9
Name:	20303
Date:	29/12/10
	EE(RWD)
	CRENI DITE