Format for information to SQM for Inspection of Ongoing/Completed Work

PART I- Work Information (To be filled-up by PIU)

	Work is Ongoing Completed
GENI	ERAL:
1.1.	Date of Inspection: 29 12/18
1.2.	Name of State Quality Monitor: YUGIESHWAR KUMAR SINGIH
1.3.	State: Bihar District: Supalle Block: Popular
1.4.	Name of Road: From Dinapalle to Ballinaha
1.5.	Package No.: BR-35R-139
1.6.	Length 2086 Km Flexible Pavement, Km. CC/other Pavement = Total
2:50	
1.7.	Estimated Cost (As cleared by GOI): Rs. 739.869 Lakh
1.8.	Technical Sanction Cost: Rs. 132-56 Lakh
1.9.	The Work is a Case of: New connectivity Up gradation
1.10.	Terrain Rolling Hilly
1.11.	Date of Start of the Work: 26 12 17
1.12.	Stipulated Date of Completion: 25 12 18
1.13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROGRESS: (In case of On going works only) Construction

Physical Progress:	7.0	ing worr	is only) Consi	detion
Completed		Start	Completion	Delay i

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Preparatory Work	30/-180 ole	Due	THE HELL HE		
		- Committee - Comm			
Earth Work	30% 800/	Due			
	SX. Scal	Actual			
CD Works	100-1	Due		4	
	100%	Actual		300	
Sub base i/c	10.1	Due		90'	
Shoulders	98%	Actual	M	0	
Base Course (Non	98%	Due			
Bitu.)	70/1	Actual			
Base /Wearing		Due			
Course(Bitu.)	-	Actual			
CC Pavement		Due			
ences whether every way		Actual			
Signage etc	5D./	Due			
	2-7-	Actual			

#### 3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: 1.5%. M
- 3.2. Quality Control Register Part-I is maintained by: Control et ex
- 3.3. Quality Control Register Part-II is maintained by: p.z. u

## 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:

Date of Visit	Inspected By	Observations	Action Taken by PIU with Date
19.7.18	S.g.M Bivoy. kr Lall		
	Bivoy. Kr Lall	- 5 -	
	NZM		
			Many medical contracts
			7-1-1
			73

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.)

#	Whether Bench marks @ 4 per km established (Y/N)	Exact Locations o the Bench Marks	Whether Center Line of Carriage Way accurately established ar referenced with Marker Pegs and Chainag Boards (Y/N)	prepared Working Drawing for the work under progress is
	Y			The market
	ggestions for i		5	
2.	SITE CLI	EARANCE AN	ND GRUBBING: For Star	ge I of Work
<b>2.</b> #	Whether Cl Grubbing be as per Material o	learing and Very deing done and so	Thether the material N vailable from observing existing work sc	fame the reusable material btainable from clearance or carification and indicate opproximate quantity and its
	Whether Cl Grubbing be as per Material of being disp	learing and Very deing done and so	Thether the material Novailable from observing existing work so clearing operations are not be salvaged and re	fame the reusable material btainable from clearance or carification and indicate opproximate quantity and its
#	Whether Cl Grubbing be as per Material of being disp	learing and Very deing done and Selection of	Thether the material Novailable from observing existing work so clearing operations are not be salvaged and re	fame the reusable material btainable from clearance or carification and indicate opproximate quantity and its e-use by the PIU.

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

Observations about Field Laboratory:

#	Whether Field laboratory Established (Y/N)	List the equipments available.	Whether adequate Equipments as per requirement of work are available and are being used.  (Y/N)
	Y		

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. of Tests required	No. of Tests Conducted by PIU/Contractor
	Earthwak		core with	2	
	compaction		Limit		
			Roctor		
	Sub-base		sandrebi	ncement	3/
			Silence An	aysy	
	Base course		sieve Ar	alyris	
			Aggragat	Impact Value	

#	quantities whether all	Whether QC Register Part I maintained as per provisions.	Whether QC Register Part II maintained and test results monitored as per provisions.
	Yes Partly No	Yes Partly No	Yes Partly No
	Yes	Yes	Yes

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

**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 %
250	6.00	3.75	30/0				
1100	6.05	3.75	3.60%				

#### 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)
1590	6.10	У		MY LI	

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

#### 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)

	gestions f	or impro	vemen	t:	s graded U, writ		
bse	rvation –	Workma	anship	for Embar	nkment and Su	b-grade Const	ruction:
# I	Location	MDD k	N/m <sup>3</sup>	Field	De	gree of Compa	ation
	(RD)	(As reco	per	Moisture Content	Field Density kN/m <sup>3</sup>	gree of Compac Dry Density kN/m <sup>3</sup>	Compaction adequate. (Y/N)
+							
7			tem ic	graded I v			
mpr	vation - S		771		vrite clear reason	ns and suggesti	ons for
mpr	vation - S		es and	profile:	opes		
npr	vation - S	Side slop	es and	profile:	opes	Whether profil Satisfactory (Y	le is
npr	vation - S	Side slop	es and	profile:	opes	Whether profil	le is
npr	vation - S	Side slop	es and	profile:	opes	Whether profil	le is
npr	vation - S	Side slop	es and	profile:	opes	Whether profil	le is

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

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

#### 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
			N.A		
1910					

#### 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)
	250M	Y	У	Y	200	200
	1100M	Y	X	У	200	200

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.):

Not-done

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

In case of PMC/BM/MPM/ Seal Coat

#	Location (RD)	Whether Course Aggregate confirms to grading. (Y/N)	Whether the binder is of approved grade.  (Y/N)	Write Mixing Temperature and whether it is in permissible limits. (Y/N)	Write Laying Temperature and whether it is in permissible limits. (Y/N)
				in the second	

01		Vaulmanshi	p of BT layer P	MC/R	M/MPM (is	a case of
	pleted works	):		WIC/B		
#	Location	Thickness in	hickness	macc		surface evenness is
	(RD)	mm	n Whether thicknes is adequate. (Y/N			
			201			
+			-			
Cro	de: S U	If this its	em is graded II	write c	lear reasons	and suggestions f
	rovement:	II this it	om is graded o,		iour round and	
9. 0			Shoulders:			
	bservations	- Quality of		Wheth	ner quality	Whether Should
9. 0	bservations		Whether quality of the material is acceptable.	of co workr	ner quality impaction nanship is table.(Y/N)	being constructed simultaneously with sub-base ar
	Observations RD 0	- Quality of  Thickness of layer in	Whether quality of the material is	of co workr	mpaction nanship is	being constructed simultaneously
	Observations RD 0	- Quality of  Thickness of layer in	Whether quality of the material is acceptable.	of co workr	mpaction nanship is	being const simultaneou with sub-ba
	Observations RD 0	- Quality of  Thickness of layer in	Whether quality of the material is acceptable.	of co workr	mpaction nanship is	being constructed simultaneously with sub-base ar

#### 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 of workmanship is acceptable. (Y/N)
1	1040	H. P.C	У	У
2	1370	H-P-C	Y	Y
3	1500	HP.C	O Y III Seveni	Υ
4	1950	HPC	V	4

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

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

#	Reference of RDs where side drain constructed.	RD at which observation made.	Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	Whether side drains are integrated to cross drains. (Y/N)
			N·A	

Grade:	S	SRI	U	If this item is graded SRI/U, write clear reasons and
suggestic	ons fo	or impr	oveme	nt:

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

#	Reference of	RD at	Thic	kness	General	General
	RDs, CC/SR Pavements provided.	which observati on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable.  (Y/N)	quality of workmanship acceptable(Y/ N)
-						
				Total Control		
Ā						

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

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

#### 13. Road Furniture and Markings

Observations - Item No. 14 a: Quality Road Furniture and Markings:

Main Informatory Board Fixed: Citizen Information Board Fixed: Yes No Yes No

Grade: S U improvement:

If this item is graded U, write clear reasons and suggestions for

S

Observations - Quality Road Furniture and Markings:

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

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, write clear reasons and suggestions for

improvement:

WOOK is in frogress.

- 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):

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

15. Other observations, if any: 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 – Settin	ng Out and Working Draw	ing	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	S
b	Availability of Working Drawing	All Stages	S/SRI/U	
	the same and the	Item Grade	S/SRI/U	S
	Item 2 – Sit	te Clearance and Grubbin	g	
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	S
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
		Item Grade	S/SRI/U	S
	Item 3	- Quality Arrangements		
a	Quality Arrangements	All Stages	S/SRI/U	5
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	S
c	Maintenance of QC Registers	All Stages	S/SRI/U	S
		Item Grade	S/SRI/U	S
	Ito	em 4 – Geometrics		
a	Road way width	2 per Km in every inspection	S/U	5
b	Carriageway width	2 per Km in every inspection	S/U	S
c	Camber	2 per km	S/U	S
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	S
		Item Grade	S/U	9
	Item 5A - Earth Work a	and Sub-grade in Embank	ment/ Cutting	
a	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	
c	Side Slopes and Profile	2 per km in Stage III	S/U	

_	Item 5B - Earth Wo	rk in Cutting in Hilly/ Roll	ing Terrain	
a	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	
b	Adequacy of Slope Protection	All Stages - In general	S/U	
c	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	
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	
		Item Grade	S/U	
		Item 6 - Sub-Base		4
	Quality of Material			
a	Grain Size	In Stage- II of III, I per	S/U	3
b	Plasticity		S/U	S
c	Compaction	In Stage- II or III, 1 per km	S/U	S
d	Total Thickness of Layer	2 per Km	S/U	S
		Item Grade	S/U	S
	Item 7 - Base C	Course – Water Bound Mad	adam	
a	Grain Size of Course Aggregate	- I. O	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	S
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 km	S/U	_
е	Thickness of every layer of WBM.	2 per Km	S/U	S
Т		Item Grade	S/U	5

ı	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	
c	Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work	1 test on the day of inspection	S/U	
d	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	1 test on the day of inspection	S/U	
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
f	Thickness of layer	2 per Km	S/U	
g	Surface Evenness in case of completed BT work	2 per Km	S/U	
		Item Grade	S/U	
ī	I	tem 9 – Shoulders		
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
Ite	m Grade		S/SRI/U	
	Item 10 - Cross Drainage Works		and Culvert	s upto 6 m.
	25 250 ag F 03 107 4	span.		
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	5
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	9
+		Item Grade	S/SRI/U	5

	Item 11 - Side	Drain and Catch Water I	rain	
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	0
	Last Control	Item Grade	S/SRI/U	
	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pukka Dra	ins
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	, <del>, , , , , , , , , , , , , , , , , , </del>
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	S.
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
		Item Grade	S/U	
	Item 13 - Re	oad Furniture and Markin	igs	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	S
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	S
		Item Grade	S/U	5

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	9
Item No 2	Site Clearance and Grubbing	S
Item No 3	Quality Arrangements	S
Item No 4	Geometrics	S
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	
Item No 5 B	Earth Work in Cutting in Hilly/ Rolling Terrain	
Item No 6	Sub-Base	5
Item No 7	n No 7 Base Course – Water Bound Macadam	
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	
Item No 9	Shoulders	
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	S
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	S

Signature:	Hereby a
Name:	39/12/16
Daniel Control	211

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

1 1.	Work is Ongoing Completed
GENE	ERAL:
1.1.	Name of State Quality Monitor: Yugeshwaz Kumar Singh
1.2.	Name of State Quality Monitor: 7 1987 Block: TRIVENIGANT State: BLHAR District: SUPAUL Block: TRIVENIGANT
1.3.	State: BLHAR District: 20 PHOL Block. 1
1.4.	Name of Road.
1.5.	Package No.: BR-35R-179
1.6.	Length:Km Flexible Pavement,Km. CC/other Pavement = Total
17.2	Km.
1.7.	Estimated Cost (As cleared by GOI): Rs. 123.36 Lakh
1.8.	Technical Sanction Cost:  Rs. Lakh  The Work is a Case of: New connectivity Up gradation
1.24	
1.10.	Terrain Plain Rolling Hilly
1.11.	Date of Start of the Work: 25 05 18
	Stipulated Date of Completion: 24 05 19
1,13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROGRESS: (In case of On going works only) Construction ramme and Physical Progress:
LIUKI	diffine wife and waster and a second

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Preparatory Work	60%	Due			
1 Topularion	607.	Actual			
Earth Work	70%	Due			1/20
	+0),	Actual			
CD Works	100%	Due			
0.00	1907.	Actual			
Sub base i/c	201.50 d	Due			
Shoulders	3-7.07	Actual			
Base Course (Non	-	Due			
Bitu.)		Actual			
Base /Wearing		Due			
Course(Bitu.)		Actual			
CC Pavement		Due			
S S 1 3 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1		Actual			
Signage etc	40%	Due			
Digitage etc	407.	Actual			

#### 3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: Ist KM
- 3.2. Quality Control Register Part-I is maintained by: CONTRACTOR
- 3.3. Quality Control Register Part-II is maintained by: P1U

## 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:

Date of Visit	Inspected By	Observations	Action Taken by PIU with Date
		/	Taliana na mare
			A STATE OF THE STATE OF
		NA.	- Indian
			The state of the s
	and the last		

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

### Report of State Quality Monitor (SQM). PART II—Observations of SOM for Opgoing/Completed Work

"ON, use additional sheets, if required.)

## Stage of Work: [I II III] SETTING OUT AND WORKING DRAWING: For all stages of work

P. M. Poplania	marks @ 4	Locations of the Bench Marks	Whother Center Line of Carriage Way accurately established and referenced with Marker Pegs and Chainage Boards (VN)	prepared Working Drawing for the work under progress is
	4	المرابية المرابية المرابية		

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

#### SITE CLEARANCE AND GRUBBING: For Stage I of Work

#	Graphing being dobe as per DPR and Material obtained is being disposed off	scarifying existing work	obtainable from clearance or
	Three days and a second	Appending the second se	Christy Carly

If this item is graded SRI/U, write clear reasons and

3. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - For all stages of work Observations about Field Laboratory:

THE RESTAURT	K had a between continue	available and are being used.
and the	A	

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 3	Quantity	Name of Test	No. of Tests sequired	No. of Tests
	A Designation of the second		* * * * * * * * * * * * * * * * * * * *		PIU/Contractor
_		1 -1 -1	3 T. T.		
-			10 - 117	-	
_	4 4 4 4 4	toka II.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
,	. 1		A CO.		***************************************
	The second of the second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	State of the state of the	W 11 2 11 1	
_	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	12-6	Transaction of the	Mark to the second	
	The state of the s		die Butter was	Action of the second second	1100
24	a free total constitue day in	1858 La Villation de la	Arma Transit Cher	Michigan Co.	
4					
11	16 18 19 19 19 19 19 19 19 19 19 19 19 19 19	1848 - 18 A. O. C.	The Marie William	1	impliant and inspire
1			in the second		
	is a soft for the order	1943 Miles			
14		2 Sept 2 3 1 14	A 5 (8)		

	deministres whether all	Whether QC Register Part I maintained as per provisions:  Yes Partly No	Whether QC Register Part II maintained and test results monitored as per provisions. Yes Partly No
	18 2 P. C		

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

5

ų.

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1

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

Observations -Road way width, Carriage way and Camber.

Rof.	Rondway Width (m)	Carriage way Width (m)	Cumber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
105m	6.05	3.75	3.5%				el neemad
	0.5	0.0 C C C C C C C C C C C C C C C C C C	78.4	A.		,	
				11	***		77.5

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)
- C. D.	300 M	6.35010	У	· ·		
		W. Andricken	公司新疆等级	<b>设数</b> 条	HARLING TO STATE OF THE STATE O	12, 27, 20, 20
		FIXENE	a company			Carrier State

Grade S [Tra] If this item is graded Uswrite clear reasons and suggestions for improvement (1)

5

#### OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

#### 5. Earthworld

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)
	egyptachternik		
	A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	3-		

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	· V * * * ·	anka J <sub>e</sub> py	rengani.	7.5 <sub>1,</sub> 1	A without the second	
Carried Video		Valence   Color Wr-			PRIVINGS INCOME	

Observation - Workmanship for Embankment and Sub-grade Construction:

#	Location (RD)	MDD kN/m <sup>3</sup> (As per	Field	Degree of Compact		tion	
		record)	Moishire Content	Field Density	Dry Density kN m	Compaction adequate.	
+		TERRET -	TALE	A STREET	a Higher		
+			(a)	AND THE REAL PROPERTY.			
+		794 1			***	Jan Barrell	
+		AND THE STREET	Autoria (Ball)			TOTAL S	
1		State and the second		An thousand	7 17 3 18		

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

Observation - Side slopes and profile:

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
	0 10 10 10 10		
345 (4.12			

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

#	Location (RD)	Cut Slop Profile, whether appoint to be stable. (Y/N)		Formation is properly dressed and traffic worthy. (Y/N)
			Λ	
	1.	. N.	17	
34	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		LEWIS MILET A

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

.(	Observations - Lo	ngitudinai O	10 10	Ref. Between	Longitudinal	SAU
-	Ref. Between RD& RD	Longitudinal Gradient	.s/U:	RD. & RD	Gradient	
	by r minima		IN	J. A		
	2.00	3 17 18 18 18 18 18 18 18 18 18 18 18 18 18		The state of the s		Control of the

#### 6. Sub-Bakei

### Observations - Quality of Material and Workmanship:

L 1051	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)
-				-	

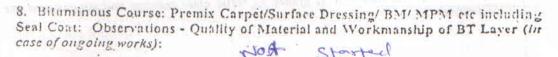
for improvement	O If this item	is graded U, write clear reasons and suggestion
A Company of the		
Base Course:		

rand Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM (mm)	Thickness is adequate. (Y/N)	Aggregate confirms to Grading (Y/N)	Filler material is non-plastic to desired extent. (Y/N)	Volume of filler material percent of course aggregate	Whether adequate compaction is done. (Y/N)
+						1	7.0 T .
1	2.00	Les son	Branch .				1. 1
-					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
			A DING BY		1: 1:	v. ::	A Services

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:



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:

In case of PMC/BMAAPMI Soul Coat

#	Location (RD)	Whether Course Aggregate confirms to grading. (Y/N)	Whether the binder is of approved grade.  (Y/N)	Write Mixing Temperature and whether it is in permissible limits. (Y/N)	Write Laying Temperature and whether it is in permissible limits. (Y/N)
	Value	estimate la	denimation is	Tello bill	
		SIR, 1819 1121	J.2 We-Second	P. P. P. J	100 m
\$ %	i j			in the later	contraporate 187
	1				10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
iv!			1 3	es ingle grant	
			160		

Grade: S 1	J If this i	tem is grade	d U. write	clear reasons a	nd suggestions for
4 64	for the season was	The second second	cope	nts_1 2 Transform	
le mberleet		41 113/BW/	ge.	elo to teral Lord pai Merchii as	
				elt grivares P	
	•		2		

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

#	Location	Th.	ickness .	Whether winforce
	(RD)	Thickness in mm	Whether thickness is adequate. (Y/N)	Whether surface evenness is within acceptable limits. (Y/N)
				de auto de more seminor de la
			report to Albertaile	
-+	-			

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

### 9. Observations - Quality of Shoulders:

#	RD o.	Thickness of layer in mm	Whether quality of the material is acceptable. (Y/N)	Whether quality of compaction workmanship is acceptable (Y/N)	Whether Shoulders being constructed simultaneously with sub-base and base course (Y/N)
			- L	1 -	9 10 10 10 10
(2)		<u>, '-'</u>			
100			75		. Y. 14
14.2	8.	9 - * +	57 E		

Cross Drainage Works: Observations - Quality of CDs: 10. Whether quality Type of CD Whether quality of the RD at which material is acceptable. workmanship CD is located acceptable. (Y/N) (YN) . 1330M. 2 ×1.5 ASLab CULVERT If this item is graded SRI/U, write clear reasons and Grade: SRI suggestions for improvement; The program of the N.A. Side Drains and Catch water Drains: Observations: Whether side drains at Whether general quality Reference RD are integrated to of the side drains/ catch-RDs where side which water drains is acceptable. (Y/N) water, cross drains. (Y/N) drain observation made. constructed.

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

12. CC/ Semi-Rigid (SR) Pavements and Associated Pucca Side Drains: Not Show

Ħ	Reference of RDs, CC/SR	erence of RD at	Thic	kness	General	General	
Pavements provided.	observati Thi	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable.	quality of workmanship acceptable(Y'		
THO 84	,	HE		h ==			
	and a male of	ure blokers	***************************************	AND HER PROPERTY AND PERSONS ASSESSED.		1.1 - Water C 1984 (1.1 - 1.1	
	4.4	3,41		10	ne		
1			hot				
			2	F9 .			

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

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

13. Road Furniture and Markings

Observations - Item No. 14 a: Quality Road Furniture and Markings:

Main Informatory Board Fixed:

Yes No

Citizen Information Board Fixed:

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

Observations - Quality Road Furniture and Markings:

- 13.1.1. Logo Boards Fixed:
- 13.1.2. 200m. Stones fixed:
- 13.1.3. 1 Km. Stone fixed:
- 13.1.4. Guard Stones fixed on Curves:
- 13.1.5. Mondatory and Cautionary Signage Yes No

Yes No

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

Ceneral Observations of SQM, (including the observations made during the Interaction with PfU 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):

10 fath line a street of interest of great day of

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 Outlity.)

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:

16. Quality Grading of items and sub-items of work: The grading of overy sub-item

Sub Item for (	Observation	Stage of Work	Awardable	Awar
	Item I - Series	3	Grades	Grad
a Bench Mark and C	Setting	Out and Working Dr.	1 1	5_
b Availability of Wo	entre Line   A	Il Stages		
Drawing	rking		SKLU	
		II Stages	S.SKI C	**************************************
		itan ti		
0 Sharin	Item 2 - Site C	Item Grade   learance and Grubbing	S/SRI.U	
- in Clementer and c	Prubbling Lou-	rear ance and Grubbing		
b Re-use of Salvageab	S. Stal	ie.i	S Skill	-
	e Material   Stag	C-1	SKLI	
	3	Itam C		
a Quality Arrangements	Itaria 9	lity Arrangements	SSRIC	
Number	All S	lance		***
Number of Mandatory per prescribed frequence	Tests as	5.	SRLC:	_
		nges		
c Maintenance of QC Reg	sisters All Sta	5/3	RET:	
		S/S	RI/U	10 1
	Carlo Branco	Train Co.	2/4	-
a Road way width	ttem 4-1 G	eometrics	d/O	
way width	2 per Kr	n in all		
Carriageway width	"ispectio	1541	3	
	2 per Km	in every		_
Camber	inspection			
Super-elevation & Extra	2 per km	SIU		
Widening at Curves	1.000			
	1 curve in			
		THE DESIGNATION OF THE PERSON		
Item 5A - Earth Wo	1.	Item Grade 3.10		-
Quality acr	rk and Sub-grad	Item Grade 3.'U		
Quality of Material for Embankment Sub-grade	In Stage-I, 1	per km/	tting	
	In Stage. II c	or III, I per		1
Compaction			. 1	1
Paction	In Stage-I, 2;	per km/		1
de CI-	In Stage- II or	III, 2 per S/U		7 .
de Slopes and Profile	2 per km in Su	20		

	the state of	
Item 5B - Earth W	York in Cutting in Hilly/ R	
Cut Slopes Workmanship of	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U
resequacy of Slope Protection	All Stages - In general	S/U
c Upon completion of formation cutting, dressing, traffic worthlness	At Stage III, at 2 critical locations with maximum height of cutting in each km	S/U
	Stage II/III - 1 critical and fairly representative stretch of 200m in each	s/U
	Item Grade S	S. U
, Quality of Material	6 - Sub-Base	A LOUIS TO SERVICE
of Material	Beet in the first	Assess Edward
Stam Size	1 30 0 / 30 0	
b Plasticity In Skin	Old Ce II A TIT	U
c Company	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	
C Compaction In St	A CONTRACTOR OF THE CONTRACTOR	E 2 2 1949
d Total Thickness of Eaver 11	S/I	14-1-2-130-130-1
	Salsa	1000
Liem 7 - Base (75)	The Trans	
Item 7 - Base Course	7 Q14de   S/U	and the state of the
a Grain Size of Course Aggregate	Item Grade S/U Water Bound Macadan	lame ne
Serieghte 1.7		The second secon
b Plasticity Index in case fine km - aggregates are crushable type	e- Il or III, I per	Luna Ansymmun
Volumetric Analysis for	S/U	greet a construction of the construction of th
WBM In Stage-	II or III, 1 per	
Surface Evenness using In comple	3/0	mar. 1
Thickness of every layer of	ted WBM 2	all from the
2 per Km.	\$/U -	1.2.12
	Hom Grade S/U	
	Item Grade S/U	

1	Contractor to the Contractor of the Contractor o					
	Level of cleanliness of	Layer.	- Premix Council			
a	1	WBM ion of	I per Km	AIC). S	S/U	ssing (SD)
Ь	Quality of Prime Coat/I Coat with respect to qual material and workmansh	ite of	I observation on the	ne day	S/L/	, ,
e	Gradation Test for Course Aggregate (if the work in item is ongoing)/visual observation in case of completed item of work,	the	I test on the day of inspection	A rock Sile re Progra	S/U	
- 1	Grade of bitumen and temperature at the time of mixing and laying (if the w in the item is ongoing)		I test on the day or inspection		s t	
2	Bitumen Extraction Test if PMC is complete		test per Km	-   5	: t'	
1	l'hlekness of layer	3	per Km	w	/U	
0	ourface Evenness in case of ompleted BT work	2	per Km	1.	U I	
		Item	D-Shoulders its	146 34		1. 18 7 18
Sho	iality of material for oulders	In	Stage- II or III Jaces	·   S/S	SRI/U	
De	gree of compaction	·In	Stage- II or III, 1 test Km		RI/U	****
	ickness of layer	In	tage- Il or III, 2 test	- T	RI/U	* * *
n Gr				-		
tem	10 - Cross Drainage Wor	ks'- Cn	HERNING OF TH	S/S	RI/U	
			span.	s and	Culverts up	to 6 m.
pipes	ity of Material – Concrete, c/ brick masonry, Hume including size etc.		tages	S/SR	ועד	
3 1168	ty of Workmanship such iltigning of pipes, wing outhlon over H Pipes	All St	agea	S/SRI	/M	
-			Item Grade	C/Cn:	7.	
		_		S/SRJ	0	- 1

b.

n	General quality of Side Drainsl Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	anstald t
-		Item Grade	S/SRI/U	Sir will a
_	Item 12 - CC/ Semi Rigid	Pavements and Associate	ed Pukka Dr	ains
n	Quality of Material - Concrete, Stone/ Concrete Block Payement etc.	In Stage- II or III, 1 per 100 m. Length of Payement	S/U	Cold mall/s
b	Strength of CC in Concrete Pavement Concrete Block Pavement	In Stage-II or III, I per 100 m. Length of Pavement	s/U	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
c	Quality of Workmanship - Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- Il or III	S.'U	o ex malia o ex malia
c)	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	

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17. Overall Grading of Work: The overall grading calculated in the kind of the main sub-item wise grading is given below:

Item No	Sub Item for Observation	Awarde
Item No I	Settler Commencer	Grade
Item No 2	Setting Out and Working Drawing	S
Hem No 3		
Item No 4	- Quanty Arrangements	S
		S
Item No 5 A	Earth Work and Sub-grade in Embardance :	5
Item No 5 B	Cutting Sub-grade in Embandance	B. Comments
Item No 6	Earth Work in Cuning in Hilly/Rolling Terrain	Designation of
Itain N	Sub-Bose Sub-Bose	
Item No.7	Bitumijous Lever Bound Mucadam	18
Hem No 8	Bituminous Layer - Premix Carpet (PMC)/	or to do an inches
Irem No 9	Surface Dressing (SD)	
Irem No 5	Shoulders (SD)	3
Item No 10		100000
	Cross Drainage Works - Causeways of all	
tem No 11	The state of the s	
10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Side Drain and Catch Water Drain	
Item No 12		AND THE RES
	Pukka Drains Associated	
em No 13	Pukka Drains  Road Furnish	7.5
	I was a substant of the substa	- W.
	Overall Grading	ministrated.

Signature: 3445000 14 Name: 31112114