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:		2018	•	
1.2,	Name of State Quality	1 0 2	PROMO		
1.3.	District: Avc.	Block	Ud want	WAR, EE, R	WO, DUMRAON
1.4.	Name of Road: From	i Axa Sah	or Path		
1.5.	Package No.: M.M.	G.C.V.		1-1100	uta Dolit Tolo
1.6. Total.	Length:Km Flexib	de Pavement.		other Pavement	······
1.7.	Estimated Cost (As cl	cared by GOI)	Rs.	73.56461	Lakh
1.8.	Technical Sanction Co	ost;	Rs. 751	6 Lakh	
1,9,	The Work is a Case of	. New conn	ectivity (p gradation	4
1.10.	Terrain Plais	n Rolling F	illy		
1.11.	Date of Start of the W	ork:	23 06	17	
1.12.	Stipulated Date of Cor	mpletion:	22 03	18	^
1.13,	Actual Date of Comple	ction (if work o	completed):		·
2. Progra	PHYSICAL PROGR mme and Physical Pro-	ESS: (In case gress:	of On going	works only) Con	struction

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	801	Duc	3		4-4-012-015
e		Actual			
CD Works	100 %	Due			
	300 /,	Actual			
Sub base i/c	100%	Due	<u> </u>		 -
Shoulders	1007,	Actual			
Base Course (Non	1000 %	Due			<u> </u>
Bitu.)		Actual			<u> </u>
Base /Wearing		Due		-	
Course(Bitu.)		Actual			 -
CC Pavement	J 150 %	Due			
	100%	Actual			
Signage etc	35 %	Due			
	<u> </u>	Actual			

3. QUALITY CONTROL:

3.1. Location of Field Laboratory:

AT Site

- 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:

	Date of Visit	Inspected By	Observations	Action Taken by PIU with Date
	14-11-14	I. Engineer	Measurement (length, width, Thick ness) and grading test.	
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D Just

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	П	· ·	,
1.	SETTING	G OUT AND W	ORKING D	RAWIN(G: <u>Fo</u>	r all stage	es of work
#	per km established (Y/N)	Exact Locations of the Bench Marks	established referenced	ay accura with Mar Chain	and rker	Whether prepared Drawing under available	Working for the work progress is
	γ						
Gr	rading: Grade	: S SRI U mprovement:	If this item is	graded Si	RI/U,	, write clea	ar reasons and
2.	SITE CLI	EARANCE AN	D GRUBBIN	IG: <u>For S</u>	tage	I of Work	<u>2</u>
#	Grubbing tas per Material o	DPR and sc btained is or posed off ca	hether the railable arifying existicle clearing of the salvagused (Y/N)	from ng work perations	obta scar appi	inable from	uantity and its
			NAC				
Gr: sug	ading: Grade gestions for in	S SRI U If	this item is g	graded SR	ZI/U,	write clea	r reasons and
			N A		-		· · ·
			 -				

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

	Whether laboratory Established (Y/I		List the available.	•	per requ	uirement	Equipments as of work are being used.
	servations abou						
#	Item of W Executed	ork	Quantity	Name of Test	No. o	1	No. of Test Conducted by PIU/Contracto
						•	
	-		<u> </u>			-····	· .
			ē.			· · ·	
					ļ		
		+				· *** -	
#	Based on quantities who mandatory conducted.	ether		-		II mainta	QC Register Par ined and test onitored as per
	Yes Part	ly No	2]	Yes Partly	No		Partly No
				-	<u>.</u> .		
	rading: Grade: ggestions for imp	S SI roven		this item is gr	aded SRI	/U, write	clear reasons and
					٠.		

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 %
CH-250	6.4.	3,80	2%0				

Observations - Super-elevation and Extra Widening at curves.

				B	
Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
·					
··					

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

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)
	200 m		Y

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)
			A	
		N	17	·

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
	•		NA		
			, ,		

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

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)
	200 m	Y	У	γ	200 mm	200 Moun
					· · · · · · · · · · · · · · · · · · ·	
					·	,,

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

7. Base Course:

Observations- Quality of Material and 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	Whether adequate compaction is done. (Y/N)
	2000 mm	79 m 84	Y	y	7	aggregate	γ.

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

Work is in progress. Up to Base Course ie. WIM in Complete d.

Grade: S U	If this item'is graded U, write clear reasons and suggestions for
improvement: Surfale of	WEM layer is not even and not in
profer con 84 require	1 / CO ONON DEPORTED

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

#11	CASC OI I IVIN	ADMINITINA SI	cai Coat		
#	Location	Whether	Whether the	Write Mixing	Write Laying
	(RD)	Course	binder is of	Temperature	Temperature
1		Aggregate	approved grade.	and whether it is	and whether it
		confirms to	(Y/N)	in permissible	is in
		grading.		limits. (Y/N)	permissible
		(Y/N)			limits. (Y/N)
			NA		

	ade: S U provement:	If this item	is graded U, w	rite cl	lear reasons	and suggestions for
	·				•	
		Workmanshi	p of BT layer Pl	MC/B	M/MPM (in	case of completed
	rks);	T		. 1	1777 41	
#	Location (RD)	Thickness in	whether thick	nacc.		urface evenness is ptable limits. (Y/N)
	(10)	mm	is adequate.		•	praote minus. (1714)
					 	
					<u>-</u>	
			ļ			<u> </u>
						
Gra	ade: S U	If this ite	em is graded U, v	vrite o	lear reasons	and suggestions for
imp	rovement:					
			The King			
		•				
		.			. <u></u>	
9.	Observatio	ns - Quality of	f Shoulders:			
#	RD	of Thickness	Whether	Whet	her quality	Whether Shoulders
	observation	n of layer in		of	compaction	being constructed
		mm			manship is	simultaneously
			acceptable, (Y/N)	accep	table.(Y/N)	with sub-base and
			(L/N)		···	base course (Y/N)
<u> </u>						

10.	Cross Drainage	Works: Observations	- Quality of CDs:
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#	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
		1000 H Pas	1 7	У	

Grade: suggestion	SRI r impro	If this item is graded SRI/U, write clear reasons and t:
		E
	_	• ·

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)	
		,	MA	

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

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

#	Reference of		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)
				·		
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<u> </u>						

Comments about	t adequacy of face/mair	walls, wings	and retaining	walls:
			- -	
	1			İ
·				:
		·		<u> </u>
Grade: S U improvement:	If this item is grad	led U, write cl	lear reasons and	l suggestions for
	1.			
				· .

13. Road Furniture and Markings Observations - Item No. 14 a: Quality Road Furniture and Markings: Main Informatory Board Fixed: Citizen Information Board Fixed: If this item is graded U, write clear reasons and suggestions for Grade: | St improvement: 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. Mandatory and Cautionary Signage If this item is graded U, write clear reasons and suggestions for Grade: | S improvement:

- 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 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:

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		
а	Bench Mark and Centre Line	All Stages	S/SRI/U	SP	
b	Availability of Working Drawing	All Stages	S/SRI/U		
		Item Grade	S/SRI/U	S P7-	
	Item 2 – Si	te Clearance and Grubbin	ıg	· .	
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	S	
b	Re-use of Salvageable Material	Stage-I .	S/SRI/U	3	
		Item Grade.	S/SRI/U	2	
	Item 3	- Quality Arrangements	 ,		
a	Quality Arrangements	All Stages	S/SRI/U	S	
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	S質	
c	Maintenance of QC Registers	All Stages	S/SRI/U	SPJ	
		Item Grade	S/SRI/U	SPA	
	It	em 4 – Geometrics	<u></u>		
a	Road way width	2 per Km in every inspection	S/U	S	
b	Carriageway width	2 per Km in every inspection	S/U	S	
c	Camber	2 per km	S/U	V	
đ	Super-elevation & Extra Widening at Curves	1 curve in each km	s/U	V	
	·	Item Grade	S/U	SRI	
	Item 5A - Earth Work	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	S	
b	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	2	
c _.	Side Slopes and Profile	2 per km in Stage III	s/U	7	

	Item 5B - Earth Wo	ork in Cutting in Hilly/ Ro	lling Terrai	n
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	
ь	Adequacy of Slope Protection	All Stages - In general	S/U	
e	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	
ď	Longitudinal Gradient	Stage II/III - I critical and fairly representative stretch of 200m in each Km	S/U	
		Item Grade	S/U	
	1	Item 6 - Sub-Base	···	<u></u>
	Quality of Material			
a	Grain Size	In Stage- II or III, 1 per	S/U	5
b	Plasticity	km	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	5
		Item Grade	S/U	5
	Item 7 - Base C	ourse – Water Bound Mac	cadam	
a	Grain Size of Course Aggregate		S/U	2
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	2
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	2
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	U
Ð	Thickness of every layer of WBM.	2 per Km	S/U	S
		Item Grade	S/U	SRI

	Item 8 - Bituminous Layer - P	remix Carpet (PMC)/ Sur	face Dressing	(SD)
	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	1.
,	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	
;	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	
đ	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	l 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	<u> </u>
g	Surface Evenness in case of completed BT work	2 per Km	s/U	
	Item Grade			
	, I	tem 9 – Shoulders		
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	SPE
ь	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	SPI
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	SPI
It	em Grade		S/SRI/U	SRI
	Item 10 - Cross Drainage Work	s – Causeways of all spans span.	and Culvert	s upto 6 m.
а	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.		S/SRI/U	S
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	SRI
-		Item Grade	s/SRI/U	SRI

	Item 11 - Side	Drain and Catch Water I	Drain	
а	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	
		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	S
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	S17
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	S
		Item Grade	S/U	
	Item 13 - Re	oad Furniture and Markin	ngs	
а	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	r.S
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	S
с	Whether the information in boards is given in local language.	Stage-I and III	S/U	
		Item Grade	S/U	2

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	'S
Item No 2	Site Clearance and Grubbing	SPI
Item No 3	Quality Arrangements	2
Item No 4	Geometries	SET
Įtėm No 5 A. į	Baneth Word Afra Subapole in Emband ment Sub Cultum	
Ite. (No 5 B) Item No 6	fisarifi Wolfginklöfilmsin Billy/Rolling (R-1976) Subedae	
ltem No 7	ABase Course - Wale and the Machidam	
Item No.8	Bittim inous Layer - Isrem ov Carper (PMC) is - Surface Dressing (SD)	
ltem No 9	Shoulders	SET
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	S
Item No 13	Road Furniture and Markings	2
	SET	

bone

Name:

PRAMOD WHAR

Date: E. E. RWD , DUM RAON