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

		MOLK IS Guldering Combierred
GENE	RAL:	
1.1.	Date of In	spection:
1.2.	Name of 1	National Quality Monitor:
1.3.	State: 🖹	ikar District: Darbharfe Block: Hanymannafa
1.4.	Name of I	Road: From LO45-TO4 TO & to Rampur.
1.5.	Package N	10.: BR-10R-350
1.6. 1.155		Km Flexible Pavement,Km. CC/other Pavement = Total
1.7.	AIII.	Cost (As cleared by GOI): Rs. 56.32 Lakh
1./.	Loumana	Cost (715 ofones of object
1.8.	Technical	Sanction Cost: Rs. Lakh
1.9.	The Worl	is a Case of: New connectivity Up gradation
1.10.	Terrain	Plain Rolling Hilly
1.11.	Date of S	tart of the Work: 13 07 17
	_	Date of Completion: 12 07 /8
1.13.		ate of Completion (if work completed):
2.	PHYSIC	AL PROGRESS: (In case of On going works only) Construction
Progr		Physical Progress:

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Preparatory Work		Due			
	1001.	Actual			
Earth Work	80° (Due	ļ. <u> </u>		
Data! Work	80 (Actual			
CD Works		Due			
CD WOLLD	2	Actual			
Sub base i/c		Due			
Shoulders	80%	Actual			19
Base Course (Non	989.	Due			
Bitu.)		Actual		4:	
Base /Wearing	209	Due			
Course(Bitu.)	887.	Actual			
CC Pavement	300 m 100	Due -			
	300	Actual			
Signage etc	1 124	Due			
DISHIES OF	1607	Actual			<u> </u>

3. QUALITY CONTROL:

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

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	Date of Inspected By Observ		Observations	Action Taken by PIU with Date
			3 ° 6 ° 1	
7	, ° 4			4.4
٠	e a			
0			1	
×		* ::		
2 2				
	*. **			
	-			*

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.)

Stage of Work: I II III

1. SETTING OUT AND WORKING DRAWING: For all stages of work

	# 	Bench marks @ 4	Exact Locations of the Bench	established and	prepared Working Drawing for the work					
		per km established	Marks	referenced with Marker	1 0					
		(Y/N)		Pegs and Chainage	available (Y/N)					
	-	(1/11)		Boards (Y/N)						
		7 At Adoquale								
	Grading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:									
				SI						
Į			12							

2. SITE CLEARANCE AND GRUBBING: For Stage I of Work

#	Grubbing being done as per DPR and Material obtained is	available from scarifying existing work	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its
	properly (Y/N)	reused (Y/N)	to use by the FTO.

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

22

3. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY

stages	of work	

Observations about Field Laboratory:

laboratory Established (Y/N	available.	equipments	per requirement of work are available and are being used. (Y/N)
:	1.		,

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 Executed	Wo	rk	Quantity	Name Test	of	No. of Tests required	No. of Tests Conducted by PIU/Contractor
					,2%			
	1.			-		1	A	
					+		/ / /	
				-			·	

# Based on quantities wimandatory conducted. Yes Par	nether all tests	I maintained as ner	Whether QC Register Part II maintained and test results monitored as per provisions. Yes Partly No
---	------------------	---------------------	--

Grading: Grade: suggestions for im	S SRI U If this item is graded SRI/Û, write clear reas	ons and



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.

Obse	rvations –R	oad way widti	Roadway	Carriage	Camber			
Ref	Roadway	7	Camber in %	Ref. RD	Width (m)	way Width (m)	in %	
26	0 6.0	3.74	27. 3%.					

Observations - Super-elevation and Extra Widening at curves.

(Observation		Extra	Ref. RD	<u>1</u>	Extra Widening provided (Y/N)
	Ref. RD	Super Elevation	Widening		Elevation	provided (1713)
-			provided (Y/N)			
	100	5	+	,		
	200	7.	1			<u> </u>
		1				and suggestions for

If this item is graded U, write clear reasons and suggestions for Grade: U improvement: 15%

OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

5. Earthwork:

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

	On Visual Classification identify	Quality of material is acceptable. (Y/N)
# Location (RD)	the Group Symbol and write	У
1000	11 (1	Y
	24	

Grade: S U	If this item is grad	led U, write clea	ar reasons and	
suggestions for impro	Vement.			* .
, .	S	,	*	
		٠.		
		t and Sub-t	grade Construction	•

Observation -- Workmanship for Embankment and Sub-grade Construction:

tion W	Observation - Workmanship for Emotion Degree of Compaction					
			Deg	ree of Compac	Compaction	()
# Location M (RD)	MDD kN/m ³ (As per record)	Field Moisture Content	Field Density kN/m ³	Dry Density kN/m ³	adequate. (Y/N)	
,						1
					7	
	[suggestions for	1

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

Observation -	Side slopes and profile: tion (RD) Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)

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

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

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

Longitudinal Gradient	S/U	Ref. Between RD& RD	Longitudinal Gradient,	S/U
		13011B11111111111	Bongituaria	Longitudinar S. C. 1.

Grade: S	U If this item is graded U, write clear reasons and suggestions for
improvement:	
-	
190	

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)
			,			
						•
		,		. ,		
<u> </u>			, ,			:

2

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7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM	of adequate. (Y/N)	confirms to	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)	
				,		2 1		

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

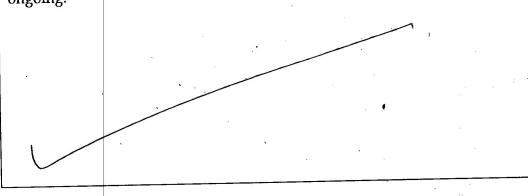
Grade: S U	If this item is graded U, write clear reasons and suggestions for
improvement:	
ā	
3	
	• • • • • • • • • • • • • • • • • • • •

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.):

B.T done

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



I	n (case of PMC	JBM/MPM/ Se	ear Coat		TTT 'I T
#	#	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)
-						
	•			•		
-	1		8		•	

Grade: S U improvement:	If this item is graded U	J, write clear	reasons and	suggestions for
	\ <u>\</u> \ <u>\</u> \	•		
			r	

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

17.01				
#	Location	Th	ickness	Whether surface evenness is
	(RD)	Thickness in	Whether thickness	within acceptable limits. (Y/N)
		mm	is adequate. (Y/N)	
				•
	<u> </u>			
1 1				

Grade: S U	If this item is graded U, write clear reasons and suggestions for
improvement:	•
	2/
pr.	
1	

9. Observations - Quality of Shoulders:

#	RD of	Thickness	Whether	Whether quality	Whether Shoulders
	observation	of layer in	quality of the	of compaction	being constructed
		mm	material is	workmanship is	simultaneously
			¹acceptable.	acceptable.(Y/N)	with sub-base and
			(Y/N)		base course (Y/N)
			\wedge		//
		-			
				**	
				To The Control of the	



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

#	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)
	400	Hop culv	iest y	. >
	650	HX 1000	Y	7

Grade: S SRI U	If this item is graded SRI/U, write clear reasons and
suggestions for improvement	:
	r 51
£	-

Side Drains and Catch water Drains: Observations: 11.

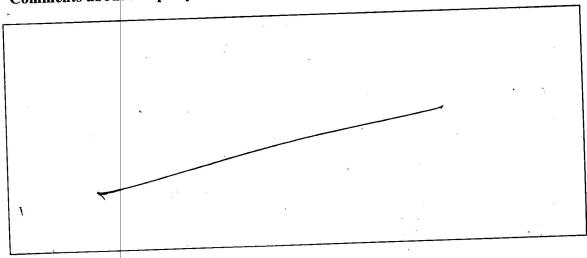
#	Reference RDs where drain constructed.		Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	Whether side drains are integrated to cross drains. (Y/N)
			NIA	
				,
		,		

Grade: S S suggestions for in		ı is graded	SRI/U,	write clear	reasons	and
	,	/Y/A		•	·	n.,
			7 ° 5. 7			·

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

	#	1010101-		Thicl		General quality of	General quality of
		RDs, CC/SR Pavements provided.	which observati on made.	Thickness in mm	Acceptable (Y/N)	material is acceptable. (Y/N)	workmanship acceptable(Y/ N)
-				,			
<u> </u>	· ·		Po	no llip	who	le Surfo	la
		i.		1		· ·	

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



	and suggestions for
Grade: S I	If this item is graded U, write clear reasons and suggestions for
improvement:	
,	
	i A
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a	
	· · · · · · · · · · · · · · · · · · ·

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:

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:

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

Yes No

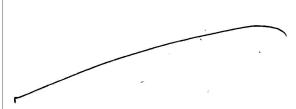
Yes No

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

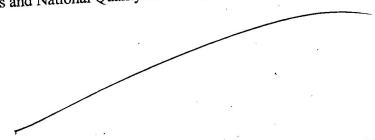
14.2. Whether the work has been completed/is in progress as per work programme or the delay has occurred. If delay has occurred, whether the liquidated damages have been withhold or recovered:



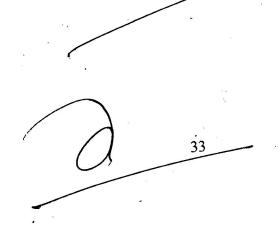
14.3. Whether the work has been completed within the sanctioned cost, if not, what is the action taken by the PIU (in case of complete works):



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.

it	em	of w	ork i	s given below.			Awa	rdable	Award Grade	ed
_		, Y4.	m for	r Observation	S	tage of Work	G	rades 4	5	
	Su	b Ite	m io			3				
_				2 Setti	ng Ou	t and Working Drav	ving			
				The state of the s			S/S	RI/U	<u>S'</u>	
Bench Mark Availability				nd Centre Line	All S	tages	0.10	RI/U		
					All S	Stages	5/3		>	
	Dra	awing	g		1	Item Grade	S	S/SRI/U	S	
1										
				Item 2 – S	Site Cl	earance and Grubb	ing		T	
						ge-I	31	SRI/U	+	
	Si	te Cl	earan	ce and Grubbing		ge-I	S	/SRI/U	-	
_	R	e-use	of S	alvageable Materia	ii Sia	Item Grad	e	S/SRI/U		
_				Item	3 - Q1	uality Arrangement	3	Z/CDI/II	T	
				anto.	Il Stages		S/SRI/U			
a	(Quali	ty Ar	rangements				S/SRI/U		
	1	Num	ber of	Mandatory Tests	as A	All Stages				
b	١,	ner D	rescri	bed frequency		Il Stages		S/SRI/U		
c		Mair	itenar	ce of QC Registers All Stages Item Grad			ade	e S/SRI/U		
				Item 4 – Geometrics						
_						Γ				
						2 per Km in every		·S/U	1	<u> </u>
	a	Roa	id war	y width	1	inspection				\overline{C}
-		↓				2 per Km in every		S/U		<u>S_</u>
1	b.	Car	rriage	way width		inspection		S/U		_S
	- 1					2 per km		13/0		
	c	1	Camber				1	s/U		کے
		Si	iper-¢	levation & Extra		1 curve in each km		5,0		
	d	W	ideni	ng at Curves				e S/U		S
	-					Item (Ji au		 Cutting	
				The Equals	Work	and Sub-grade in E	mba	nkment/		
			•	Item 5A - Earth		I Ctore- Der N	III/	1		1
				of Moterial for		In Stage-I, I per III,	1 per	r S/U		(
		$\mathbf{a} \mid \mathbf{a}$	Qualit Emba	y of Material for nkment/ Sub-grade	•	km				
			المرازان	IIIIIIIII J. C		In Stage-I 2 per k	In Stage-I 2 per km/			5
		-		ompaction		In Stage- II of III, 2 per km		er S/U		
		b	Com							
	-			i Deofile		2 per km in Stage	e III	S/U		1
		c	Side	Slopes and Profile	, 			1		
	1	1						9	•	

					1. A	
	•	Item 5B - Earth Worl	k in Cutting in Hilly/ Rollin	ng Terrain	`	
	Stabilit y Cut Slo	and Workmanship of pes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U		
,	Adequa	cy of Slope Protection	All Stages - In general	S/U	,	
:	Upon coutting,	ompletion of formation dressing, traffic	At Stage III, at 2 critical locations with maximum height of cutting in each km	S/U		
1	Longit	udinal 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				
. .	Qualit	y of Material			-	
 a	Grain	Size	In Stage- II or III, 1 per	S/U		
b	Plastic	eity	km	S/U		
c	Comp		In Stage- II or III, 1 per km	S/U		
d	Total	Thickness of Layer	2 per Km	S/U		
_		Item Grade		S/U		
		Item 7 - Base	Course – Water Bound Ma	ıcadam		
a	Grain	Size of Course	The state of the s	S/U		
b	Test f	For Liquid Limit and city Index in case fine gates are crushable type	In Stage- II or III, 1 per km	S/U		
c	Volument asses WBN	metric Analysis for sment of compaction of	In Stage- II or III, 1 per km	S/U		
d		ce Evenness using ght edge	In completed WBM 2 tests per km	S/U	-	
е	Thic	kness of every layer of M.	2 per Km	S/U		
			Item Grad	e S/U		

				f Dressins	(CD)
	Item 8 -	Bituminous Layer – P	remix Carpet (PMC)/ Sui	Tace Dressing	(3D)
		tor to appro-	1 per Km	S/U	
Coat with		f Prime Coat/ Tack respect to quality of nd workmanship	1 observation on the day of inspection	S/U	
	'. ' /v.v.co.r.o.		1 test on the day of inspection	S/U	<u>. </u>
d	temperate mixing a	bitumen and ure at the time of nd laying (if the work m is ongoing)	1 test on the day of inspection	S/U	
e	Bitumen PMC is o	Extraction Test if complete	1 test per Km	S/U	
f	Thicknes	s of layer	2 per Km	S/U	
g		Evenness in case of ed BT work	2 per Km	S/U	
			Item Grade	S/U	
-		I	tem 9 – Shoulders	-	
a	Quality	of material for	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	Thickne	ss of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
Ite	em Grade		,	S/SRI/U	
	Item 10 -	Cross Drainage Work	s – Causeways of all span	s and Culverts	upto 6 m.
			span.	T	
a	Stone/ b	of Material – Concrete, rick masonry, Hume cluding size etc.	All Stages	S/SRI/U	
b	as posit	of Workmanship such ioning of pipes, wing ushion over H Pipes	All Stages	S/SRI/U	
			Item Grad	e S/SRI/U	-

,		Item 11 - Side	Drain and Catch Water	Drain	
а	Catch Wa	uality of Side Drains/ ter Drains and their n with CDs.	All Stages	S/SRI/U	
			Item Grade	S/SRI/U	
	Iter	n 12 - CC/ Semi Rigid	Pavements and Associate	ed Pukka Dra	ins
a		f Material – Concrete, ncrete Block etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
b		of CC in Concrete / Concrete Block	In Stage- II or III,1 per 100 m. Length of Pavement	S/U	U
c	Wearing s Adequacy	f Workmanship – surface texture, of setting of 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	2
			Item Grade	S/U	U
		Item 13 - Ro	oad Furniture and Markin	ıgs	
a	Main Info	formation Board, rmatory Board, id whether fixed istruction.	Stage-I	S/U	S
b	Km stones	ds, 200 m stones and s, quality and xed after completion.	Stage-III	S/U	5
c		he information in given in local	Stage-I and III	S/U	5
			Item Grade	S/U	S



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

sub-item wise gro	ading is given below.	Awarded Grade
Item No.	Sub Item for Observation	5
em No 1	Setting Out and Working Drawing	5
tem No 2	Site Clearance and Glubbing	<u> </u>
tem No 3	Quality Arrangements	
tem No 4	Geometrics	
item data in		
Kem So S B		
Item No.6		<u> </u>
Item No 7		はらり
Item No 8	Shoulders , Garage of all	
Item No 9	- Works - Causeways of	15_
Item No 10	spans and Culverts upto o	
	a: 1. Drain and Catch Water Drain	
Item No 11	CC/ Semi Rigid Pavements and Associated	V
Item No 12	Pukka Drains	C
	Road Furniture and Markings	
Item No 13	Roau I unit	U
	Overall Grading	

Signature:

Name:

Date:

Executive Engineer
R.W.D. Works Division
R.W.D. Benipatti