

Annexure 1 Format 1- Part 1

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 1.1.	Date of Inspection 28 12 2018
1.2.	Name of State Quality Monitor. District: SITAMARH Block: SONBARSA 15 To Day 08 a lot (V5.24)
1.3.	Name of Road: From LO24 PWD head 10 To be Dangeraly (V524)
1.5.	Package No.: DR-33 R-405 10
1.6.	Length:Km Flexible Pavement,Km. CC/other Pavementm.
Total	168Km
1.7.	Estimated Cost (As cleared by GOI): Rs. 117-38 Lakii
1.8.	Technical Sanction Cost: Rs.106.68 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: IC DT 2015
	Stipulated Date of Completion: 9 07 2016
1.13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROGRESS: (In case of On going works only) Construction
Progra	amme and Physical Progress:

ltem	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	52/	Due		j	
		Actual			
CD Works	NIL	Due		7	
		Actual	1 1	***	
Sub base i/c		Due	100		
Shoulders	50%	Actual			. A
Base Course (Non		Due			1 1
Bitu.)	40/	Actual	-		
Base /Wearing	1. 推動 1. 推動 1.	Due			
Course(Bitu.)		Actual			
CC Pavement	MARKE SUPER	Due	÷ 54		
		Actual	4.		San
Signage etc	[1] (C) (A) L) 维 (B) (c)	Due	1. 1		
It tall it is	139	Actual	4 4		

week closed due to death of contracter.



- 3. QUALITY CONTROL:
 - 3.1. Location of Field Laboratory:

3.2. Quality Control Register Part-1 is maintained by: Ager

3.3. Quality Control Register Part-II is maintained by: P10

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	of Inspected Observations By				Action Taken by PIU with Date
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Name and Signature of the Head of PIU, Date:......



Format 1- Part II

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

E	Whether	Exact	Whether Center Line of	
	Bench	Locations of	Carriage Way accurately	prepared Working
-	marks @ 4	the Bench	established and	Drawing for the work
	per km		referenced with Marker	under progress is
ĺ	established		Pegs and Chainage	available (Y/N)
	(Y/N)	1	Boards (Y/N)	
111		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
-	Mar. 6		1.000	Account to the section of

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

2. SITE CLEARANCE AND GRUBBING: For Stage 1 of Work

# 2000000000000000000000000000000000000	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 re-use by the PIU.

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

3.	QUALITY	ARRANGE	MENTS	AND	ATTENTION	TO	QUALITY -	For all
stages	of work							
Obser	vations abou	ut Field Lal	orgtory:					

to	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)

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)

Ħ	Item of Work Executed	Quantity	Name of Test	No. of Tests required	No. of Tests Conducted by PIU/Contractor
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	July 1				4.69 (4.1)
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					112
	La 121 Market				1
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	n= b-				图 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The state of the s	Based on executed quantities whether all mandatory tests conducted. Yes Partly No	I maintained as per	Whether QC Register Part II maintained and test results monitored as per provisions. Yes Partly No

Grading: Grade: suggestions for in	S SRI U I	f this item is	graded SRI/	U, write clea	ar reasons and
. V2					
4.					



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 %
					1 1 1		
1-1 1	- 1 sti.,						
-11				191			

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)
+ 1					
				· ·	
1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0					

G	rade	: <u>s</u>	U		lf this	item is	graded	U, v	vrite	clear	reasons	and	suggestions	for
ir	יטוקמ	eme	at:								19 A			101
				101										
					1 20%									
				. 4										
					100					Z ₀				

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)
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,						kment and Sul		Company of the Association of the Company of the Co	
#	1	cation RD)	MDD kN (As pe record	r	Field Moisture Content	Field Density kN/m ³	Dry Density kN/m ³	Compaction adequate.	
-			The second section of the sect		e win malitat in passage of the state of the	the 2005 is a supplementation of the first time and provided the development of the state of the	Y	(Y/N)	
		- Control of the Cont						4	
<u> </u>	1	7-11							
		S	U If d	nis ite	m is graded	U, write clear r	casons and sug	gestions for	
1	upro	vement	•				*		
4						1			
						e con Cape			
0	bser	vation -	- Side slope	es an	d profile:			# 1	
	Ħ	21.7%	tion (RD)	Wh	ether Side S isfactory (Y		Whether profil Satisfactory (Y	e is	Mary Control
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Observations - Earth work in Hilly/Rolling terrain or high Embankments.

ħ	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	protection works	Formation is properly dressed and traffic worthy (Y/N)
A A		JA 1021-		
11 9	- <u>4</u>	They want to	A But A	
		1-1		

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

Ref. Berween RD& RD	Longitudinal Gradient	S/U	Ref. Between RD.,,& RD	Longitudinal Gradient	S/U
	The second to	1 1	- Control of the Cont		
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The second		*****************	Atticement and test to combine the Albanic suizable musical	WARM COUNTY TO AMERICAN SERVICE STREET	

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4	h.		74.							

6. Sub-Base:

Observations - Quality of Material and Workmanship:

Annual Section of the	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)
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1						

Grade: S U or improvement	If this item is grad	ed U, write clear rea	wns sind i	roggesti	05/6

7. Base Course:

Observations- Quality of Material and Workmanship of WBM;

Ħ	Location (RD)	Thickness of each layer of WBM (mm)	ís	Filler material is non-plastic to desired extent. (Y/N)	Volume of filler material percent of coarse aggregate	Whether adequate compaction is done. (Y/N)
7	ed - a. (a)	4.50				
	1-5	Figura pa				
37					E 4.74	

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

Grade: S U improvement:	If this item is graded	U, write clear rea	sons and sug	ggestions	for



8. Bituminous Course: Premis Carpet/Surface Dressing/ BM/ MPM etc including Scal Coat: Observations - Quality of Material and Workmanship of BT Layer (in cuse 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:

In case of PMC/BM/MPM/ Seal Coat

The second secon	Location (RD)	Whether Coarse 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)
	- MAX				
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D I	C. T.				
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Grade: S U	If this item	is graded U.	write c	lear re	easons and	suggestions for
		w 0		May 1		

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

wor #	Location	Thickness		Whether surface evenness is			
	(RD)	Thickness in mm	Whether thickness is adequate. (Y/N)	within acceptable limits. (Y/N)			
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		9.407 T					

Grade: S U	If this item is graded U, write clear reasons and suggestions for
improvement:	
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9. Observations - Quality of Shoulders:

#	RD of observation	Thickness of layer in mm		of compaction workmanship is	
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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
10-1	A. C. LAND				
121					

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

11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.	A Section of the second	of the side drains/ catch-	The state of the s
45,100				
	11.			
	La Carlot			
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Grade: S SRI U suggestions for improvem	If this item is graded SRI/U, write clear reasons and tent:

75

					Pucca Side Drai	General
	Reference of RDs, CC/SR Pavements	which obser-	Thickness in mm	Acceptable (Y/N)	General quality of material is	quality of
Service Servic	provided.	vation made.			acceptable.	(Y/N)
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						101 2 1
Co	mments abou	t adequacy	of face/mali	n walls, wings	s and retaining	walls:
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der ober der steller						
4		A PART OF THE PART				
in the second						
Gr	ade: S U	If thi	is item is ora	ded II write	clear reasons and	d suggestions for
	provement:	40.4				a suggestions for
1.0						

13. Road Forniture and Markings

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

Main Informatory Board Fixed:

Yes No

Citizen Information Board Fixed:

Yes No

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

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

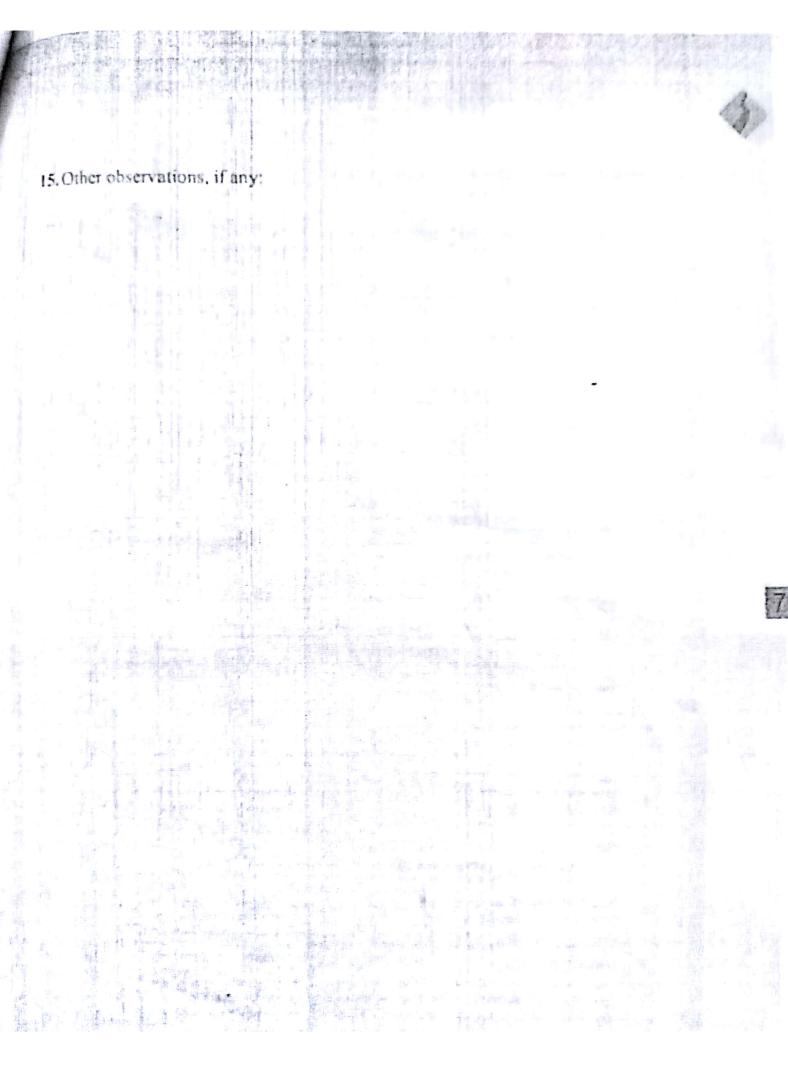
Yes No

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

- 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):

The second of the second	X -4 Your a 1		
	and has been seen		ner work
		npleted/is in progress as	
		If delay has occurred, w	
liquidated damages b	ave been withhold or t	recovered.	
		eted within the sanctioned of	ost, ii not,
what is the action tak	cen by the PIU (in case	e of complete works):	
			*
14.4. Observations	about the action take	en by the PIU on the obse	rvations of
inspecting officers in	scluding SQMs and N	IQMs. (Clearly offer com	nents about
		Departmental Officers, St	
	al Quality Monitors).		

and the second second			
14.5. Comments B	hout difference in of	oservations made by NQN	1s/SOMs in
		the earlier inspection reports	*
	걸맞는 이 그 말로 하고 됐다면요. 날이 되는 그림,	is about the differences in o	A
	ner mis clear commen	is about the differences in o	vaca randita,
if any),			



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

Ħ	Sub Item for Observation	Stage of Work	Awardable Grades	Awarded Grades
1	2	3	4	5
	Item 1 - Settl	ing Out and Working Dray	ving	
n	Bench Mark and Centre Line	All Stages	S/SRI/U	
b	Availability of Working Drawing	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	
in A Million .	Item 2 – SI	te Clearance and Grubbin	g	
n	Site Clearance and Grubbing	Stage-I	S/SRI/U	
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
		Item Grade	S/SRI/U	
	Item 3	- Quality Arrangements	. 11	d
я	Quality Arrangements	All Stages	S/SRI/U	7-1
b	Number of Mandatory Tests as per prescribed frequency	All Stages	s/sri/u	
C	Maintenance of QC Registers	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	
d.	i i	em 4 - Geometrics	1 . 2 . 4	
2	Road way width	2 per Km in every inspection	SAU	
b	Carriageway width	2 per Km in every inspection	S/U	
c	Camber	2 per km	S/U	
đ	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	
		Item Grade	S/U	
£11.5	Item 5A - Earth Work	and Sub-grade in Embank	ment/ Cutting	ed to the second
4	Quality of Material for Embankment/ Sub-grade	In Stage-1, 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	The second secon
-0 N		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

	ltem 5B - Earth Wo	ork in Cutting in Hilly/Rol	ling Terrain	The same of the sa
1	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	
6	Adequacy of Slope Protection	All Stages - In general	S/U	
	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	-
	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	
F		Item Grade	S/U	
		Item 6 - Sub-Base	1 1212	
	Quality of Material			
	Grain Size	In Stage- II or III, I per	S/U	
, ,	Plasticity	km	S/U	
	Compaction	In Stage-11 or III, 1 per	S/U	
	Total Thickness of Layer	2 per Kiti	S/U	
	The same of the sa	Item Grade	S/U	and the same of th
4	Item 7 - Base C	Course – Water Bound Mad	cudam	Sign of the
•	Grain Size of Coarse Aggregate		S/U	
1	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	in Stage- II or III, I per km	S/U	Sec. 1. 1
	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per	s/U	
d	Surface Evenness using straight edge	in completed WBM 2 tests per km	\$/U	
-	Thickness of every layer of WBM	2 per Km	S/U	
- 1	A sale and	Item Grade	S/U	- Par Shr

ac.imm	Item 8 - Bituminous Layer -	Premis Carpet (PMC)/ So	rface Dressing	(SD)
h	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 Coarse 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	SAU	337
đ	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	I test on the day of inspection	s/U	
•	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
ſ	Thickness of layer	2 per Km	s/U	And the second s
B	Surface Evenness in case of completed BT work	2 per Km	s/U	
		Item Grade	S/U	
3.5		tem 9 – Shoulders		The base of the ba
n.	Quality of material for shoulders	In Stage- II or III, I test per Km	S/SRI/U	
b	Degree of compaction	In Stage- II or III, 1 test	S/SRI/U	value of the same
c	Thickness of layer	In Stage- II or III, 2 tests per kin	S/SRI/U	
Ite	m Grade		S/SRI/U	114
7	Item 10 - Cross Drainage Works	- Causeways of all spans span.	and Culverts	upto 6 m.
	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Singes	S/SRI/U	
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Suges	S/SRI/U	-
		Item Grade	S/SRI/U	

	Irem 11 - Side	e Drain and Catch Water I	Drain	
Б	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	
		ltem Grade	\$/\$R1/U	
	Item 12 - CC/ Semi Rigid	i Pavements and Associate	d Pukka Dra	lus
k	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	
	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	
- 4		Item Grade	S/U	in endormalistic management
1	Item 13 - Re	ad Furniture and Markin	gr	
1	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-1	S/U	
	Logo boards, 200 m stones and Kin stones, quality and whether fixed after completion.	Stage-III	S/U	
	Whether the information in boards is given in local language.	Stage-I and III	S/U	
		Item Grade	S/U	

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

Sub Item for Observation	Awarded Grade
No 1 Setting Out and Working Drawing	
Site Clearance and Grubbing	
Quality Arrangements	
Geometrics	
Earth Work and Sub-grade in Embankment/ Cutting	
em No 5 B Earth Work in Cutting in Hilly/ Rolling Terrain	
Sub-Base	
m No 7 Base Course - Water Bound Macadam	
Bituminous Layer Premix Carpet (PMC)/ Surface Dressing (SD)	
Shoulders	day :
Cross Drainage Works - Causeways of all spans and Culverts upto 6 m. span.	
m No 11 Side Drain and Catch Water Drain	
CC/ Semi Rigid Pavements and Associated Pukka Drains	
Road Furniture and Markings	10
	Setting Out and Working Drawing Site Clearance and Grubbing Quality Arrangements Geometries Earth Work and Sub-grade in Embankment/ Cutting Earth Work in Cutting in Hilly/ Rolling Terrain Sub-Base Base Course - Water Bound Macadam Bituminous Layer - Premix Carpet (PMC)/ Surface Dressing (SD) Shoulders Cross Drainage Works - Causeways of all spans and Culverts upto 6 m. span. Side Drain and Catch Water Drain CC/ Semi Rigid Pavements and Associated Pukka Drains

Signature:

Name:

Date: ..

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