



KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED
(FORMERLY KARNATAKA LAND ARMY CORPORATION LIMITED)
"GRAMEENABHIVRUDDHI BHAVAN", 4TH & 5TH FLOOR, ANANDA RAO CIRCLE,
BANGALORE – 560 009

Annexure - 1
Format 1 - Part 1

FOR BUILDING AND SGY WORKS

PART-I WORK INFORMATION - (TO BE FILLED-UP BY PROJECT)

Work is

Ongoing

Completed

GENERAL:

1. Date of Inspection:

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2. Name of District/ State Quality Monitor :

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1. District:

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Taluk:

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2. Work code:

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3. Name of work:

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4. Technically Sanctioned Date & Amount:

No.	Dt:	Rs.	Lakhs
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5. Adm. Approval Date & Amount:

No.	Dt:	Rs.	Lakhs
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6. Date of Commencement:

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7. Stipulated Date of Completion:

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8. Actual Date of Completion (if work is completed):

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9. **STAGE OF WORK:**

Stage of work	Financial progress	Remarks / Reasons for delay in construction (if any)

10. **QUALITY CONTROL:**

1. Location of Field Laboratory (if any) :

2. Quality Control Register -1 is maintained by :

..... JE/AE

3. Quality Control Register -2 is maintained by :

..... AEE

4. Location of works.....

11. INSPECTIONS BY DQM/SQM AND ACTION TAKEN:

Sl. No	Date of Inspection	Inspected by	Stage of work at the time of Inspection	Whether observations have been attended to Y/N	Date of submission of compliance

12. SUITABILITY TESTS CONDUCTED ON MATERIAL PRIOR TO CONSTRUCTION

Sl. No	Item of Work	Type of Test	Test conducted Y/N	Test reports enclosed Y/N	Remarks
1.	Foundation for Buildings	a. SBC of Soil.....KN/m ²			
		b. Min. Depth of Excavation.....(m)			
2.	Concrete Work	a. Plinth beam/roof beam...M20/M25/M30			
		b. Columns(M20/M25/M30)			
		c. Staircase/lintel etc...(M20/M25/M3)			
		d. Roof slab (M20.M25/M30)			
3.	Superstructure For BBM/SBM/SSM	1. Shape and dimension of bricks/stone/blocks			
		2. Water absorption			
		3. Dressing of stones			
		4. Compressive strength of mortar cubes			
		5. Gradation of sand			
		6. Deleterious materials and organic impurities			
4.	Finishing work	a. Plastering (CM1:3/1:4/1:6/1:8) b. strength of mortar cubes			
5.	Flooring Work	a. Flooring			
		b. dadoing			

6.	Electrification work	a) Electrical cable type 1.5/2.5/4.00/6.00 etc... ISI Mark			
		b) Brand Switches & sockets ISI Mark			
		c) Brand Distribution board			
		d) Brand Lighting fixtures ISI Mark			
		e) Brand Submersible pump ISI Mark			
		f) Earthing			
		g) Cable termination LT power & control			
7.	Water Supply & Sanitation	Diameter of pipe GI/PV/UPVC/other			
		* Brand material for WC pans/water supply materials			
		* Diameter/ Thickness of pipes SWR/PVC for sanitary			
8.	Non destructive test conducted (if any)	a) Rebound hammer test			
		b) Ultrasonic pulse velocity			
		c) Other tests			
FOR SGY WORKS					
9	Embankment /Cutting/Sub-grade	1. Atterberg's limits			
		2. SPC Test			
		3. CBR test			
10	Granular Sub-Base	a. Atterberg's limits			
		b. Combined radation			
		c. Plasticity tests and SPC Tests			
		d. CBR Test			
11	WBM Sub base				
12	Base course				
13	CD works				
14	Rigid pavements & Pucca drains				
15	Bituminous Course -				

AE/JE

Date

ASSISTANT EXECUTIVE ENGINEER



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 BANGALORE – 560 009

Format 1 - Part II

REPORT OF DISTRICT QUALITY MONITOR (DQM)/STATE QUALITY MONITOR (SQM)

FOR BUILDING AND SGY WORKS

PART-II- Observations of DQM/SQM for Ongoing/Completed Work

(To be filled-Up by DQM/SQM, use additional sheets, if required)

Stage of Work :
 (Tick only one appropriate box)

I	Foundation/basement and plinth is in progress.
II	Superstructure/roof is in progress.
III	Finishing Work is nearing completion

1. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY: For all stages of Work - (Visual observations) :
a.Field test

#	Visual observations	Remarks

2. Observations about Mandatory Tests:

#	Item of work executed	Total number of Mandatory QC tests required	Total number of Test conducted by the agency	Name of the Test conducted by DQM at a designed location	Result of the test conducted by DQM Pass/Fail	Test result as per Q.C register at the same location (Mention the page No. of Q.C Reg.) Pass/Fail	Whether the test recorded in Q.C register found correct. Y/N

3. Observations - Maintenance of QC Registers (Examination of record and verification of QC Register Part 1 & 2)

#	Based on executed quantities whether all mandatory tests conducted	Whether QC Register Part I maintained properly	Whether QC Register Part II maintained and NCR issued whether necessary
	Yes Partly No	Yes Partly No	Yes Partly No

Grade :

S	RI	U
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 If this item is graded RI/U, write clear reasons a suggestions for improvement.

4. Field tests to be reviewed by DQM/SQM:

#	Item of work executed	GF/ FF/ SF	Number of Mandatory QC tests conducted by the agency	Whether quality of the material is acceptable Y/N	Remarks
1	Earthwork excavation				
2	Foundation & Basement				
3	RCC footing, column,				
4	Superstructure				
5	RCC roof, beam				
6	Joineries				
7	Plastering				
8	Flooring				
9	Water supply & Sanitation				
10	Electrification				
SGY WORKS					
11	Embankment/Cutting/S ub-grade				
12	Granular Sub-Base				
13	WBM Sub base				
14	Base course				
15	CD works				
16	Rigid pavements & Pucca drains				
17	Bituminous Course -				
18	Embankment/Cutting/S ub-grade				

Grade :

S	RI	U
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 If this item is graded RI/U, write clear reasons a suggestions for improvement.

5. Observations-Quality of Construction: In all stages

#	Item of work	Dimensions Thickness/width are as per sanctioned estimate	Whether the sizes constructed is acceptable Y/N	Whether quality of the material is acceptable Y/N	Whether quality of workmanship is acceptable Y/N	Remarks
1	Earthwork excavation					
2	Foundation & Basement					
3	RCC footing, column,					
4	Superstructure					
5	RCC roof, beam					
6	Joineries					
7	Plastering					
8	Flooring					
9	Water supply & Sanitation					
10	Electrification					
For SGY works						
11	Embankment/Cutting/Sub-grade					
12	Granular Sub-Base					
13	WBM Sub base					
14	Base course					
15	CD works					
16	Rigid pavements & Pucca drains					
17	Bituminous Course -					
18	Embankment/Cutting/Sub-grade					

Observations - Tests reports on mortar or Concrete ingredients, Design mix, Storage of cement and stacking of aggregates, Cement consumption, workability, W/C ratio, Mixing, Transporting, Placing and Compaction, form work, centering scaffolding, Bracing etc., casting of cubes and 28 days strength etc., Honeycombing and finishing, Tests on steel, bending, splicing or welding and placing of reinforcement.

Dressing of stones and its sizes, Height of course, consumption of mortar, line, plumbness, Horizontality and Vertically of course, staggering of joints, Physical tests on stones and bricks, Bond stones, weep holes.

Tests on Hume pipes, alignment and joining of pipes, cushions, backfill material and its compaction, longitudinal slopes, keying of face walls above HFL, Protective works, clearing of valley approach and exit etc.,

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

Write comments:

Grade :

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

FOR SGY WORKS.

6. Sub-Base: Quality of Material and Workmanship:

Item 6a: Observations - Thickness and Surface evenness-2 tests per KM in stage II and 1 test per KM in stage III

#	Location Ch:	Thickness of loose layer (when the item is in progress) mm	Thickness of compacted Layer mm	Prescribed Thickness in mm	Thickness provided is adequate Y/N	Field test results				Whether compaction is adequate Y/N
						Field Density KN/m ³	Dry Density KN/m ³	Degree of compaction	Compaction adequate Y/N	
1										
2										
3										
4										
5										
6										

Grade :

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

7. Base Course

Water Bound Macadam (G2 & G3):

Quality of Material and Workmanship:

Item 7a: Observations - Gradation, thickness and compaction- In stage II or III, 1 test per KM

#	Location Ch:	Compacted thickness of each layer of WBM mm	Thickness is adequate Y/N	Aggregate confirms to Grading. Y/N	Screenings confirms to Grading Y/N	Crushable screenings if used or Binding material as filler material is non-plastic to desired extent. Y/N	Volume of filler material (including binding material, if used)- course aggregate	Whether adequate compaction is done (by volumetric analysis by re-filling the pit) Y/N
1		WBM G2						
		WBM G3						

Grade :

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

8. Cross Drainage Works: Observations-Quality of CDs: In all stages

#	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	Remarks

Observations - Tests reports on mortar or Concrete ingredients, Design mix, Storage of cement and stacking of aggregates, Cement consumption, workability, W/C ratio, Mixing, Transporting, Placing and Compaction, form work, centering scaffolding, Bracing etc., casting of cubes and 28 days strength etc., Honeycombing and finishing, Tests on steel, bending, splicing or welding and placing of reinforcement.
Dressing of stones and its sizes, Height of course, consumption of mortar, line, plumbness, Horizontality and Vertically of course, staggering of joints, Physical tests on stones and bricks, Bond stones, weep holes.
Tests on Hume pipes, alignment and joining of pipes, cushions, backfill material and its compaction, longitudinal slopes, keying of face walls above HFL, Protective works, clearing of valley approach and exit etc.,
Comments about adequacy of face/main walls, wings and retaining walls.

Write comments:

Grade :

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

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

Observations: Quality of CC/SR Pavements and pucca drains: In stage II or III - 1 test per 100 m length of pavement.

#	Road Ch: where CC/SR Pavements provided.	Road Ch: at which observations made.	Thickness mm	Acceptable Y/N	General Quality of material is acceptable Y/N	General Quality of workmanship acceptable Y/N

Observations - General Quality of water and its acceptance, physical tests on cement, hand feel tests, storage and stacking, physical tests on aggregates, gradation, deleterious materials, storage and stacking of aggregates, Grade of Steel and its physical tests, storage and stacking of steel, form work centering, scaffolding and bracing, design mix, w/c ratio or OMC, combined gradation of course and fine aggregates, mixing, blending, transportation, handling, placing, finishing and curing of concrete. Workability of concrete, verification of trail length, Horizontal alignment, surface levels, thickness surface textures, cracks and their acceptance, joints width and thickness, proper use of filler materials and sealer etc.,

Write comments:

Grade :

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

10. Name Board and other Display Boards

10.1. Observations-Quality of Information Boards and letterings (visual observations)

Whether main informatory boards fixed acceptable:

Yes	No
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Grade :

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

11. Bituminous Course: Premix Carpet/Surface Dressing/MSS etc. and Seal Coat: Quality of material and workmanship of BT layer

Item 11a: Observations - Thickness and Surface evenness (in case of completed work only) - 2 test per Km - In stage III - Actual measurements

#	Location ch:	Thickness of BT mm	Whether thickness of BT is adequate Y/N	Reach of 200mm critical length for surface evenness check	Location of test	Tolerance limit mm	Actual result mm	Whether surface evenness by straight edge is within acceptable limits Y/N
1								
2								
3								
4								
5								
6								

Item 11b: Observations - Gradation, quantity and riding quality - One test per Km - In stage III - Actual measurements

#	Location ch:-----	Write the quantity of binder used	Whether required quantity of binder used Y/N	Whether course aggregate confirm to grading Y/N	Whether seal coat has filled up all the interstices Y/N	Whether riding quality is good Y/N
1						
2						
3						

Grade :

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

12. General Observations of DQM/SQM (including the observations made during the interaction with PIU staff and Contractor's/Consultant's Engineers) :

12.1 Observations about deficiency in project preparation (Give detailed observations about deficiencies in general items which have been left but are required as per site condition):

- 1.
- 2.
- 3.
- 4.

12.2 Whether the work, has been completed/is in progress as per work programme or the delay has occurred is attributable to the contractor, whether the liquidated damages have been withhold or recovered:

12.3 Clearly offer comments about the action taken on the observations of Departmental Officers, District Quality Monitors and State Quality Monitor.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

12.4 Comments about difference in observations made by DQM/SQM in earlier inspections (the DQM/SQM shall study the earlier inspection reports of DQM/SQM any and offer his clear comments about the differences in observations, in any).

13. Other observations if any:

14. 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
1	Earthwork excavation	
2	Foundation & Basement	
3	RCC footing, column,	
4	Superstructure	
5	RCC roof, beam	
6	Joineries	
7	Plastering	
8	Flooring	
9	Water supply & Sanitation	
10	Electrification	
11	For SGY works	
a	Embankment/Cutting/Sub-grade	
b	Granular Sub-Base	
c	WBM Sub base	
d	Base course	
e	Wearing course	
f	CD works	
g	Side drains	
	Overall Grading	

- * S - Satisfactory
- * RI-Required improvement
- * U-Un-satisfactory

Signature :
Name :
Date :