



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

Annexure-III
Format 1 - Part 1

FOR WATER SUPPLY WORKS

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

Work is

Ongoing

Completed

1) GENERAL:

1. Date of Inspection:

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2. Name of District Quality Monitor :

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3. District:

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Taluk:

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4. Name of work:

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5. Estimate cost:

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6. Agency:

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7. Technically Sanctioned Date & Amount:

Rs. Lakhs

8. Adm. Approval Date & Amount:

Rs. Lakhs

9. Date of Commencement:

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10. Stipulated Date of Completion:

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

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2) PHYSICAL PROGRESS: (In case of ongoing works only) Construction Programme and physical Progress:

Item	Completed reaches	% age of completion of Item	Date of start		Date of Completion		Delay in Months
			Due	Actual	Due	Actual	
1. Head works							
2. Jackwell/pump house							
3. Raw water raising main							
4. IR							
5. Aerator settling tank slow sand filter Or							

Clarifloculator Rapid sand filter wash water tank						
6. Pure water sump						
7. Master balancing tank						
8. OHT						

3) QUALITY CONTROL:

- 1) Location of Field Laboratory :
- 2) Quality Control Register Part-I is maintained by : _____ JE/AE
- 3) Quality Control Register Part-II is maintained by : _____ AEE
- 4) Location of MIB/CIB: Ch..... KM. Village is

- I. Whether information is in Kannada
- II. Whether MIB is fixed at both ends of the road

Yes	No
Yes	No

4) INSPECTIONS BY DQM or SENIOR OFFICERS AND ACTION TAKEN:

a) Inspection by DD/JD/GM /DQM and action taken statement:

Sl. No	Date of Inspection	Inspected by	Stage of work at the time of Inspection	Item wise Observations	Whether observations have been attended to Y/N	Date of submission of compliance	Reasons for delay in submission of compliance

b) Inspection by DQM and action taken statement:

Sl. No	Date of Inspection	Inspected by	Structures inspected by DQM & Location where detailed tests have been conducted	Item wise Observations	Action taken by PIU & Date of submission of ATR	Date of submission of re-gradation proposal	Reasons for delay in submission of ATR/Re-gradation proposal

5) SUITABILITY TESTS CONDUCTED ON MATERIAL PRIOR TO CONSTRUCTION:

Sl. No.	Item of work	Material tested	Type of test	Date of Suitability tests conducted	Whether the material satisfies the limits prescribed Y/N
1	Impounding Reservoir:				
	Casing	a) Available Soil b) Barrowed soil	1. WSA & Atterberg's limits 2. SPC Test 3. FSI Test 4. Permissibility		
	Embankment	a) Available Soil b) Barrowed soil			
2	Raising Main (Raw water)	Pipe	1. Gauge 2. Pressure		
3	Raising Main (Pure water)	Pipe	1. Gauge 2. Pressure		
4	Pumping Machinery				

AE/JE

Date :

ASSISTANT DIRECTOR



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BANGALORE – 560 009

Annexure-III
Format 1 - Part 2

**FORMAT FOR INFORMATION TO DISTRICT QUALITY MONITOR (DQM) INSPECTION OF ONGOING /
COMPLETED WORK**

FOR WATER SUPPLY WORKS

Work is

Ongoing

Completed

1. Date of Inspection:

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2. Name of District Quality Monitor :

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3. District:

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Block:

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4. Name of work:

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5. Stage of work:

I Source: Ground water / surface water

a. Ground water source

Sl. No	Details	As per Estimate	As per site
1	Location - Latitude		
	Location - Longitude		
2	Condition of the surroundings		
3	RL of the bore well		
4	Geologist Recommendation		
5	Depth of bore well		
6	Classification of soil met with		
7	Depth / type of casing pipes adopted		
8	Static water level of bore well		
9	Pump setting level		
10	Yield of bore well		
11	Quality of water		

b. Surface source

Sl. No	Details	As per Estimate	As Accessed during Inspection of Work/Site
1	Location - Latitude		
	Location - Longitude		
2	Condition of the surroundings		
3	RL of Source point		
4	Source type (To be mentioned regarding River, Lake, Canal, Dam or Nala		
5	Sustainability of source		
6	Intake arrangement (Intake well / Jock well / sluice)		
7	Source by gravity / pumping from source to impounding / treatment plant whether by gravity or by pumping to be mentioned.		

c. Arrangement for drawals by gravity

1	RL		
2	Dia meter of Pipe / Size of the channal		
3	Delivery point details to be mentioned with RL		
4	Discharge available at delivery point LPS		

d. Arrangement for drawal by Pumping

Sl. No	Details	As per Estimate	As Accessed during Inspection of Work/Site
1	RL of floor of pump house		
2	Suction RL		
3	Head		
4	Delivery point RL		
5	Head		
6	Discharge to toe head (2+4)		

Grade :	S	RI	U	If this item is graded RI/U, write clear reasons and suggestions for improvement:
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II Pumping Machinery

Sl. No	Details	As per Estimate	As Accessed during Inspection of Work/Site
i.	Type of pumps		
ii.	Capacity of Pump		
iii.	Stand by arrangements		
iv.	Power supply arrangements		
v.	R.L. of pumps installed		

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

III Raising Main (Raw Water)

Sl. No	Details			As per Estimate		As Accessed during Inspection of Work/Site	
1	Raising Main						
a.	Length of Raising Main						
b.	Type of Pipes for Raising Main						
c.	Dia of the Pipes						
d.	Gauge of the Pipes						
e.	R.L. of the Starting Point						
f.	R.L. of the Delivery Point						
g.	Total Head						
2.	Alignment						
	Chainage :	Latitude	Longitude	Depth of pipe laid below G.L	Latitude	Longitude	Depth of pipe laid below G.L
	0.00						
	0.250						
	0.500						
	0.750						
	1.000						
	1.250						
	1.500						
	1.750						
	Chainage :	Latitude	Longitude	Depth of pipe laid below G.L	Latitude	Longitude	Depth of pipe laid below G.L
	2.000						
	2.250						
	2.500						

* The above details to be verified and mentioned for every 250mts intervals and whenever necessary beyond 2.50km upto ending of the Rasining Main.

Sl. No	Details	As per Estimate	As Accessed during Inspection of Work/Site
3	Details of Valves & Chambers Provided		
I	Pressure Valve & R.L		
	a. Starting Chainage		
	Chambers Details: 1. Size 2. Bottom thickness of C.C. Bed 3. Side thickness of C.C Wall		
	b. Delivary ending Chainage		
	Chambers Details: 1. Size 2. Bottom thickness of C.C. Bed 3. Side thickness of C.C Wall		
ii	Difference in pressure & Elevation between Staring & End Chainage		

Grade :	S	RI	U	If this item is graded RI/U, write clear reasons and suggestions for improvement:
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ii Density to be verified form the bottom of the Bund (sides) Both Casing & Hearting Casing:

#	Location Ch:	R.L	MDD KN/m ³ & OMC in % age (as per record)	Thickness of loose layer (when the item is in progress)	Thickness of compacted layer	Field Moisture Content in % age	Degree of Compaction		
							Field Density KN/m ³	Dry Density KN/m ³	Compaction adequate (Y/N)
1									
2									
3									
4									
5									
6									

Hearing:

#	Location Ch:	R.L	MDD KN/m ³ & OMC in % age (as per record)	Thickness of loose layer (when the item is in progress)	Thickness of compacted layer	Field Moisture Content in % age	Degree of Compaction		
							Field Density KN/m ³	Dry Density KN/m ³	Compaction adequate (Y/N)
1									
2									
3									
4									
5									
6									

iii Slope protection works:

Details	As per Estimate	As Accessed during Inspection of Work/Site
Toe drains :		
Drainage arrangements at bund :		

IV Impounding Reservoir:

Details	As per Estimate	As Accessed during Inspection of Work/Site
Location :		
Capacity :		
Geological feature :		
Tank bed : RL:		
F.S.L:		
M.W.L:		
Top of Bund (R.L):		
Bund width:		
Homogeneous / Heterogeneous:		
Side Slope Provided : Front & Rear		
Height of bund:		
Soil stability for casing and hearing Zones:		

i Details of Bed Blanket provided

#	Location Ch:	MDD KN/m ³ & OMC in % age (as per record)	Thickness of loose layer (when the item is in progress)	Thickness of compacted layer	Field Moisture Content in % age	Degree of Compaction		
						Field Density KN/m ³	Dry Density KN/m ³	Compaction adequate (Y/N)
1								
2								
3								
4								
5								
6								

iv Water inlet arrangements :

Details	As per Estimate	As Accessed during Inspection of Work/Site
RL _____ Type		
Outlet arrangements :		
RL _____ Type		

Grade :

S	RI	U
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 If this item (Slope Protection Work) is graded RI/U, write clear reasons and suggestions for improvement:

V. Treatment plant

Sl. No	Details	As per Estimate	As Accessed during Inspection of Work/Site
i	Aerator arrangements :		
ii	Settling tank : Bed level :		
	Settling tank : Top level :		
	Inlet & outlet arrangements :		
iii	Type of filter :		
iv	Filter media depth details :		
v	Discharge		
	At Inlet :		
	At Outlet :		
Vi	Clarifloculating arrangements:		
	Back Wash Arrangements :		

Grade :

S	RI	U
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 If this item (Treatment Plant) is graded RI/U, write clear reasons and suggestions for improvement:

VI. Pure Water sump:

Details	As per Estimate	As Accessed during Inspection of Work/Site
Location RL :		
Capacity :		
Size of the Sump:		
Inlet and outlet arrangements :		

Grade :

S	RI	U
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 If this item (Pure Water Sump) is graded RI/U, write clear reasons and suggestions for improvement:

Pure Water pumping Arrangements:

Details	As per Estimate	As Accessed during Inspection of Work/Site
Location RL :		
Type of Pump:		
Capacity :		
Standby arrangement:		
Power supply :		

Grade :

S	RI	U
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 If this item (Pure Water Pumping arrangements) is graded RI/U, write clear reasons and suggestions for improvement:

VIII. Raising Main (Pure Water)

Sl. No.	Details	As per Estimate			As Accessed during Inspection of Work/Site		
1	Raising Main						
a.	Length of Raising Main						
b.	Type of pipes						
c.	Dia of the Pipes						
d.	Gauge of the Pipes						
e.	R.L. of the Starting Point						
f.	R.L. of the Delivery Point						
2	Alignment						
	Chainage :	Latitude	Longitude	Depth of pipe laid below G.L	Latitude	Longitude	Depth of pipe laid below G.L
	0.00						
	0.250						
	0.500						
	0.750						

	1.000						
	1.250						
	1.500						
	1.750						
	2.000						
	2.250						
	2.500						

* The above details to be verified and mentioned for every 250mts intervals and whenever necessary beyond 2.50km upto ending of the Raising Main.

3. Details of Valves & chambers provided

Sl. No.	Details	As per Estimate	As Accessed during Inspection of Work/Site
I	Pressure & R.L		
a.	Starting Chainage		
b.	Delivary ending chainage		
II	Difference in pressure & Elevation between staring & end chainage		

Grade :	S	RI	U	If this item (Raising Main - pure water) is graded RI/U, write clear reasons and suggestions for improvement:

IX General observations of DQM, (including the observations made during the interaction with PIU staff and Contractor/Consultant Engineers):

a. 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):

b. 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:

- c. 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) :
- d. Observations about the action taken by the PIU on the observations of inspecting officers including DQMs (Clearly offer comments about the action taken on the observations of Departmental officers, State Quality Monitors and National Quality Monitors).
- e. Comments about difference in observations made by DQMs in earlier inspections (the DQM shall study the earlier inspection reports of DQMs if any and offer his clear comments about the differences in observations, if any).

X Other observations, if any:

XI 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	In case of work	Awardable grades	Awarded grade
1	2	3	4	5
Item 1 - Quality Arrangements				
	Quality Arrangements	On-going	S/RI/U	
	Item Grading		S/RI/U	
Item 2 - Attention to Quality				
a.	Maintenance of QC Registers	On-going	S/RI/U	
b.	Verification of test results	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 3 - Source				
a.	Yield	On-going/Complete	S/RI/U	
b.	Quality	On-going/Complete	S/RI/U	
c.	Suction / Jackwell	On-going/Complete	S/RI/U	
d.	Pump House	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 4 - Pumping Machinery				
a.	Power supply arrangements	On-going/Complete	S/RI/U	
b.	Pumping arrangements	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 5 - Raising Main (Raw Water)				
a.	Quality of Pipe	On-going/Complete	S/RI/U	
b.	Alignment	On-going/Complete	S/RI/U	
c.	Pressure at Starting & Ending Point	On-going/Complete	S/RI/U	
d.	Quality of Valves & Chambers	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 6 - Impounding Reservoir				
a.	Size & Dimension of Reservoir / Bund	On-going/Complete	S/RI/U	
b.	Bed Blanket Quality & Density	On-going/Complete	S/RI/U	
c.	Side Bund Quality & Density	On-going/Complete	S/RI/U	
d.	Slope both Front & Rear	On-going/Complete	S/RI/U	
e.	Protection Work	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 7 - Treatment Plant				
a.	Aerator arrangements	On-going/Complete	S/RI/U	
b.	Function of Settling Tank	On-going/Complete	S/RI/U	
c.	Filter arrangements	On-going/Complete	S/RI/U	

d.	Discharge	On-going/Complete	S/RI/U	
e.	Back Wash Arrangements	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 8 - Pure Water Sump				
a.	Capacity	On-going/Complete	S/RI/U	
b.	Stand by arrangements	On-going/Complete	S/RI/U	
c.	Power supply	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 9 - Pure Water Sump				
a.	Quality of Pipe	On-going/Complete	S/RI/U	
b.	Alignment	On-going/Complete	S/RI/U	
c.	Pressure at Starting & Ending Point	On-going/Complete	S/RI/U	
d.	Quality of Valves & Chambers	On-going/Complete	S/RI/U	
	Item Grading		S/RI/U	
Item 10 - Over Head Tank				
a.		On-going/Complete	S/RI/U	
b.		On-going/Complete	S/RI/U	
c.		On-going/Complete	S/RI/U	

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

#	Item	Awarded Grade
1	Quality Arrangements	
2	Attention to Quality	
3	Source	
4	Pumping Machinery	
5	Raising Main (Raw Water)	
6	Impounding Reservoir	
7	Treatment Plant	
8	Pure Water Sump	
9	Raising Main (Pure Water)	
10	Over Head Tank	
	Overall Grading	

* S - Satisfactory

* RI-Required improvement

* U-Un-satisfactory

Signature :

Name :

Date :