



## KARNATAKA MINING ENVIRONMENT RESTORATION CORPORATION

(Govt of Karnataka Undertaking)  
kmerc2014@gmail.com

Order No. CEPMIZ/2023-24/10/MI/V/KMERC/00326

Date: 05.02.2024

Subject: Administrative Approval for Minor Irrigation Project in  
H.B.Halli Taluk, Vijayanagara District.

Ref: 1. Oversight Authority 4<sup>th</sup> Meeting dated 06.08.2022  
2. KMERC Office letter No. KMERC/HO/100/MI/38/2022-23/1367  
Dtd. 02.09.2022  
3. Secretary, Minor Irrigation & Ground Water Development  
Department, Bangalore Office Ltr No.  
MID/278/MIS/2022 Dated 08.08.2023.  
4. KMERC Project Appraisal Meeting dated 23.08.2023.  
5. KMERC Board Sub-Committee Meeting Dated 08.09.2023.  
6. Govt. Order No. CI 215 MMM 2022, BANGALORE,  
DATED 13/03/2023.  
7. Oversight Authority 12<sup>th</sup> Meeting dated 01.12.2023

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### Preamble:

The Minor Irrigation Department Project for construction of 11 Check dams, 4 Tank improvements in H.B.Halli Taluk for creating irrigation potential and ground water recharge was approved by the Oversight Authority, appointed by Hon'ble Supreme Court vide its Order dated 21.04.2022, vide ref. (1) and the Proposal Approval was communicated vide ref letter (2) to submit DPR for the proposed project, as per the guidelines communicated along with.

The Secretary, Minor Irrigation & Ground Water Development Department, Bangalore after technical scrutiny vide 22<sup>nd</sup> TAC Meeting dated 09.03.2023, submitted the DPR for the work of Construction of 4 Check dams and 5 Tank improvements in 8 indirectly affected villages, as per the list of Joint Director, Mines & Geology Department, and surrounding villages in the same watershed of

H.B.Halli Taluk, Vijayanagara District and requested Administrative Approval for an amount of Rs. 2400.00 Lakhs vide ref letter (3) above.

Sl. No	District	Sector	Sub-Sector	Project	Project Cost (in Lakhs)
44 (as per Approved list)	Vijayanagar	Irrigation	Minor Irrigation	Construction of new Check Dam to Streams/Halla of HB Halli Taluk, Vijayanagara District	2400.00
<b>TOTAL Rs. In Lakhs</b>					<b>2400.00</b>

The DPR is reviewed by the Appraisal Committee on 23.08.2023 with regard to the output and outcomes. The DPR complying with the observations of Project Appraisal Committee of KMERC was approved in the KMERC Board Sub-Committee vide ref. (5) as per delegation of financial powers assigned vide ref. (6). The Project outputs variations are accepted and approved by the Oversight Authority vide ref (7) for the proposal in H.B.Halli taluk of Vijayanagar district.

Sl. No.	Name of the Project	Cost approved by OA (Rs. in Lakhs)	Cost, as per technical Scrutiny (Rs. in Lakhs)	Cost recommended by Secretary / HoD (Rs. in Lakhs)	Amount recommended by Appraisal Committee of KMERC (Rs. in Lakhs)	Amount approved (Rs. in Lakhs)
1	Construction of series of Check dam to streams/halla of H.B.Halli Taluk, Vijayanagara District.	2400.00	2400.00	2400.00	2400.00	2400.00

**ADMINISTRATIVE APPROVAL Order No.**  
**CEPMIZ/2023-24/10/MI/V/KMERC/00326 Date: 05.02.2024**

As explained in the preamble, the administrative approval of the Project “Construction of series of Check dam to streams/halla in H.B.Halli Taluk, Vijayanagara District “ as per enclosed Annexure is hereby accorded for Rs. 2400.00 lakhs.

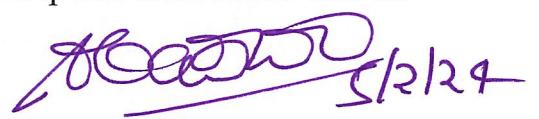
While implementing/executing the Project, the concerned Implementing Agency should strictly adhere to following conditions:

1. The approved Project should be taken up as per the prevailing norms / rules of the Implementing Department and KTPP Act.
2. The Implementing Agency should ensure that the works approved by KMERC are not executed under any other Schemes/ Department including DMF Funds.
3. The funds earmarked and approved for the proposed category/categories/location(s) of works, must be utilized exclusively for the respective category/categories/location(s) of works only, and cannot be diverted for other categories/location(s) of works.
4. The concerned Administrative Department/ Implementing Agency shall not entrust the implementation of the approved work(s) to another Administrative Department/ Implementing Government Agency without the permission of KMERC.
5. The projects are to be taken up only on undisputed Govt. land/ community land with the prior approval of the concerned revenue authority to avoid any legal complications, unless it is beneficiary oriented program.
6. The concerned Administrative Department/ Implementing Agency shall be solely responsible for ensuring compliance to all related obligations/legal requirements including but not limited to Environmental/Forest Clearances, queries under RTI, Social Audits or any stakeholder consultations, as may be required for implementation of works approved by KMERC.
7. The works shall be carried out as per the standard specification of items in the sanctioned estimate. Mandatory quality check(s) should be conducted by designated qualified staff at different levels, as per the approved norms of the concerned Administrative Department/ Implementing Government Agency. Inspection & Quality control register shall invariably be maintained for each work of the project and the quantity of works shall also be duly checked and verified and should be made accessible to KMERC during Inspection and provide copies, whenever sought.

8. All projects are suggested to take care of shifting of all utilities before starting the road work and also to make necessary provisions to avoid any damage to the structure in future.
9. Necessary soil investigation, hydraulic designs and structural design for the project need to be ensured and also to make necessary provisions as per requirements of the project.
10. A Board depicting Project details be erected at a conspicuous place mentioning the details of the scheme/ year of execution/ project cost/ Executing Department & Agency/ date of commencement & completion/ Defect liability period etc., in both Kannada and English language, as provided in the KMERC Website.
11. Progress report of the project shall be periodically (monthly/ quarterly/annually/project-end) submitted/uploaded on the KMERC portal & Digital copies of the same should be sent to KMERC, along with photos with geo-coordinates and small-sized videos at every stage of project-implementation.
12. On completion of the approved project, a consolidated report of the work done, and assets created (if any) shall be submitted to KMERC. Details of completed project should be incorporated in Google Earth and the duly verified Kmz / Kml file be sent to KMERC for record.
13. Prior approval from KMERC shall necessarily be taken for any change in the cost, scope or location of the project work approved hereunder.
14. Funds will be released based on the monthly/ milestone based physical progress. The Implementing Agency should submit the details of child account, IFSC Code, Bank names etc., for transfer of funds by KMERC.
15. The Implementing Department/Agency shall be responsible for all payments made or recommended by it to be made on account of the project.
16. The Department shall prepare a detailed statement of expenditure periodically (monthly/quarterly/annually) and submit hard copy and upload it in the KMERC portal.

17. Separate account / cash book are to be maintained at the executing agency level for the scheme. The books of Accounts of the Implementing Government Agency shall be scrutinized periodically and should be made accessible to KMERC.
18. Utilization Certificates should be submitted after utilization of funds released.
19. Concerned department shall ensure Internal Audit of the CEPMIZ Project expenditure, annually and submit the report to the KMERC, along with Action Taken Report.
20. Funds for the project is readily available and will be released based on progress and bills due, within the amount approved for the project by Oversight Authority. No additional funds, over and above the amount sanctioned hereby, shall be provided due to Tender premium, cost escalation, delay in execution or any other reason.
21. Administrative costs including amount required for Project Implementation, Supervision, Consultancy charges for DPR and DTS preparation, Monitoring at District level & Hq level, Documentation & Evaluation and other contingencies shall be limited to 1% of the project cost as provisioned in the DPR, which would be as per actuals. The approval of KMERC would be obtained for incurring the expenditure under this Head.
22. The cost of DPR preparation shall be reimbursed/provided, as per the actual requirement, which could be based on the guidelines/ norms of the kind of works by the department and arrived as per KTPP Act.
23. The department shall maintain Asset register for all the assets created under the CEPMIZ Project.
24. The CEPMIZ asset created shall not be disposed off, encumbered or utilized for purpose other than for which funds have been provided by KMERC.
25. The executing agency shall prepare the list of the Villages/beneficiaries, who are to benefit from the projects and provide to KMERC & upload in the KMERC portal.

26. Success stories of the implemented projects are to be prepared and provided to KMERC by the executing agencies after completion of the projects.
27. The concerned Administrative Department/ Implementing Government Agency shall ensure the post-project sustainability in terms of the Operations and Maintenance (O&M) aspects of the project works, as agreed during submission of the proposal.
28. The Implementing Agency shall also carry out Concurrent Monitoring and 3<sup>rd</sup> party Evaluation of all projects and shall share reports to KMERC and on its portal.



**Managing Director  
KMERC**

**To,**

1. Secretary to Government, Irrigation Department.
2. Chief Engineer, MI & GWD (North Zone), Bangalore
3. Superintending Engineer, MI & GWD Circle, Gulbarga
4. Executive Engineer, MI & GWD Division, Ballari for further needful.

**Copy to:**

1. The Deputy Commissioner, Vijayanagara District.
2. PS to Hon'ble Minister for Mines, Govt. of Karnataka.
3. PS to Additional Chief Secretary to Government & Development Commissioner & Chairman KMERC.
4. PS to Secretary to the Govt. (MSME & Mines).

## II. PROJECT AT A GLANCE / SALIENT FEATURES EXECUTIVE SUMMARY

Sector	IRRIGATION	Sub-Sector	MINOR IRRIGATION	Standalone project or in convergence	STANDALONE PROJECT
Project name	“CONSTRUCTION OF CHECK DAM TO STREAMS/HALLA OF HB HALLI TALUK, VIJAYANAGARA DISTRICT” (UNDER CEPMIZ)			Project type : New/ Upgradation / Strengthening/ Rejuvenation	NEW AND STRENGTHENING
Proposal submitted by	MINOR IRRIGATION AND GROUND WATER DEVELOPMENT, NORTH ZONE VIJAYAPURA		Govt. Implementing Agency		MINOR IRRIGATION AND GROUND WATER DEVELOPMENT
Project Location/ Coverage	H.B.Halli Taluk / Vijayanagara district Latitude : 15° 2' 24" N Longitude : 76° 12' 0" E		Total Project Cost (INR Cr.)	24.00 Cr	Project Duration 6 MONTHS
Project Objectives					<ol style="list-style-type: none"> <li>1. Restore the of watersheds affected due to mining activities.</li> <li>2. There will be augmentation of ground water table in the surrounding area by water storage in these structures over a period.</li> <li>3. Store the water harvested during rainy season and provide for in direct irrigation to the command area.</li> <li>4. Facilitate and fulfil the crop water requirement to nearby lands and encouraging farmers towards potential irrigation.</li> <li>5. Improve the quality of water in surface and sub-surface aquifers.</li> <li>6. To Increase in the yield which intern helps in incremental benefits after the advent of irrigation.</li> </ol>

**Project Outputs quantities list by constructing 4 No's of Check dams and Improving 5 no's of Tanks**

Sl.no	Type of Work	Major Project Outputs	Measuring Unit	Quantity
1	Check dam and Tank Improvements	Jungle clearance	Sqm	4,89,650.00
2	Check dam and Tank Improvements	Earthwork excavation	Cum	1,77,404.81
3	Check dam and Tank Improvements	Casing Embankment, hearting embankment and key trench	Cum	1,09,051.09
4	Check dam and Tank Improvements	Revetment	Sqm	77,975.00
5	Check dam and Tank Improvements	Concrete -PCC & RCC	Cum	9,902.35
6	Check dam and Tank Improvements	Fabrication	Kgs	1,15,004.22
		<b>Total Project Cost = 2400.00 Lakhs (All inclusive)</b>		

**Project Outcome list**

SL No	Name of check dam/Tank	Water Storage Capacity Mft.	No. of Beneficiaries	Atchkat (Ha)	Length of check dam and Tank bund in 'm'
1	Magimavinhalli Tank-1	61.15	22.00	125.00	1500
2	Magimavinhalli Tank-2	29.50	30.00	100.00	1020
3	Dashamapura Tank	20.02	39.00	160.00	1000
4	Hosakere Tank	67.62	56.00	105.00	1300
5	Chintrapalli Tank	18.76	40.00	62.00	1100
6	Byyalalu-Kadlalbu Checkdam	0.63	50.00	99.00	83
7	Sangameshwara Check dam	0.68	13.00	94.00	45
8	Kogali Check dam	0.40	22.00	93.00	32
9	Haralu Check dam	0.74	26.00	93.00	66

## Project Implementation & Expenditure schedule (Month- Wise Scheduling)

Sl.	Type of Work	Major Project Component	M1	M2	M3	M4	M5	M6	M7
1	Check dam and Tank Improvements	Consultancy, Work tender process, Third party evaluation and Project Monitoring unit	114.88						
2	Check dam and Tank Improvements	Jungle Clearance & Jualifora bushes	70.59						
3	Check dam and Tank Improvements	Earthwork Excavation for check dam and Casing embankment for tanks		455.95					
4	Check dam	Plain cement Concrete work for foundation and revetment for tank bunds			301.17				
5	Tank Improvements	Reinforced Concrete work – Body wall, Abutments, Wing walls, Return walls, Key walls, Piers, slab etc..(check dam & waste wier)				317.22	317.22		352.15
6	Check dam and Tank Improvements	Protection works for check dams & tanks							
<b>TOTAL =</b>		<b>2400.00 LAKHS</b>	114.88	70.59	455.95	301.17	317.22	317.22	352.15

Post-project implementation Sustainability / Operations and Maintenance

1. Post project implementation MI & GWD through in house Quality control will assess the quality of work is within the departmental standards.
2. As per departmental norms the defect liability /maintenance period of structure will be one year in scope of contractor and as its concrete ground routed structure there will not be any repair works for check dams.
3. There is no major maintenance work as to be built structure are check dams, Operation mechanism is natural and maintenance of the project i.e. only jungle clearance, if required will be done by MI & GWD.



*please send*  
Executive Engineer  
MI & GWD Division,  
Ballari  
*Hannan*  
Superintending Engineer  
MI & GWD circle,  
K'burgi

 **Pratipendu Engineer**  
**MI & GWD circle,**  
**Kalburgi**

~~Secretary to the Government  
Minor Irrigation & Ground  
Water Development~~

## EXECUTIVE SUMMARY

**Name of the Project:** Construction of Check Dam to Streams/Halla of H.B.Halli Taluk, Vijayanagar District (Under CEPMIZ).

Project was approved under CEPMIZ scheme for Rs. **24.00 Cr** by Hon'ble Oversight Authority on 21.04.2022. The main objective of the project is to improve the ground water and ground water quality affected due to mining activities.

Comprehensive Environment plan for Mining Impacted Zone (CEPMIZ works) in Vijayanagara District are proposed for an amount of Rs 132.00 Crores, Out of which Hadagali (24.00 Cr). The Proposed Check Dams and Tank Improvement project covers a part of the H.B.Halli Taluk which lies in  $15^{\circ} 2' 24''$  N,  $76^{\circ} 12' 0''$  E lat. long. The list of work, Location, Area covered and farmers to be benefitted as below.

Sl. N. o.	Name of Work	Location	Area Covered in (Ha)	No of Farmers to be benefitted	Project Cost in Lakhs.
1	Magimavinhalli Tank-1	$15^{\circ} 4'57.18''$ N $76^{\circ}20'5.39''$ E	125.00	22.00	2400.00
2	Magimavinhalli Tank-2	$15^{\circ} 5'38.38''$ N $76^{\circ}19'52.09''$ E	100.00	30.00	
3	Dashamaapura Tank	$15^{\circ} 0'57.99''$ N $76^{\circ}18'40.03''$ E	160.00	39.00	
4	Hosakere Tank	$14^{\circ}58'52.99''$ N $76^{\circ}18'43.10''$ E	105.00	56.00	
5	Chintrapalli Tank	$15^{\circ} 1'58.86''$ N $76^{\circ}13'36.80''$ E	62.00	40.00	
6	Byalalu-Kadlabalu Checkdam	$15^{\circ}4'35.49''$ N $76^{\circ}11'57.77''$ E	99.00	50.00	
7	Sangameshwara Check dam	$14^{\circ}51'54.53''$ N $76^{\circ} 9'23.03''$ E	94.00	13.00	
8	Kogali Check dam	$14^{\circ}56'32.01''$ N $76^{\circ} 9'3.87''$ E	93.00	22.00	
9	Haralu Check dam	$14^{\circ}48'42.30''$ N $76^{\circ}9'3.57''$ E	93.00	26.00	

**PROJECT OUTPUTS (ACTIVITIES AND QUANTITIES):**

SL No	Name of check dam	Length of check dam/Tank bund in m	Storage Height of check dam /Height of Tank bund in m	Storage Capacity in Mcft	Protection work	
					Down stream	Up Stream
1	Magimavinahalli Tank-1	1500	4.6	61.15	400	300
2	Magimavinahalli Tank-2	1020	4.0	29.50	350	350
3	Dashamaapura Tank	1000	5.6	20.02	500	500
4	Hosakere Tank	1300	3.1	67.62	1000	625
5	Chintrapalli Tank	1100	8.0	18.76	900	800
6	Byalalu-Kadlabalu Checkdam	83	2.0	0.63	250	250
7	Sangameshwara Check dam	45	2.5	0.68	300	250
8	Kogali Check dam	32	2.5	0.40	400	325
9	Haralu Check dam	66	2.0	0.74	500	450

**PROJECT OUTCOMES:**

By construction of 4 Check dams and improving of 5 tanks in H.B.Halli Taluk outcomes of the project after implementation is as below

- The depth of borewells surrounding check dam and tank locations will vary from 42-60m. The present average ground water availability will vary from 22.6 - 40.0 m in borewells.
- Expected ground water availability at 18-40 m depth in borewells and will be assessed by existing borewells after implementation of the project.
- Expected incremental benefits in yield of 931 Ha.
- Improvement in ground water quality affected due to mining activities.

- Total yield in these 4 check dams, and 5 Tank Improvements work is about 593.98 Mcft in which 199.51 Mcft of water will be stored by constructing check dams and tanks (Details mentioned in proposed interventions)
- Total 298 beneficiary farmers out of which 149 small farmers, 79 Medium farmers and 70 Major formers are benefitted due to the additional irrigation potential created by improving of tanks and construction of check dams. The beneficiary details with Survey no. are mentioned as below

### **MONITORING FRAMEWORK:**

- MI & GWD Sub Division Hadagali will supervise the site with available technical staff to ensure that scope and milestone to be achieved is as per the planned schedule.
- Third party evaluation team will be deployed to measure the outcome of ground water augmentation
- Third party evaluation team will be report the improvement in water quality of surface and sub surface aquifers
- By general assessment yield and direct utilization of water will be benefitted.

## POST IMPLEMENTATION MAINTENANCE AND SUSTAINABILITY:

### **Mechanism:**

1. Post project implementation MI & GWD through in house Quality control will assess the quality of work is within the departmental standards
2. As per departmental norms the defect liability /maintenance period of structure will be one year in scope of contractor and as its concrete ground routed structure there will not be any repair works for check dams
3. There is no major maintenance work as to be built structure are check dams, Operation mechanism is natural and maintenance of the project i.e. only jungle clearance, if required will be done by MI & GWD.

By constructing the check dams / Improving the tanks with estimated project cost of Rs. 2400.00 Lakhs will irrigate 931.00 Ha. of available cultivable lands nearby, greatly improving ground water table and restore the adverse environmental effects on aquifers and watersheds in mining affected areas.

*L.V. Keer Kaval*

Executive Engineer  
MI & GWD Division,  
Ballari

*Shankar*  
Superintending Engineer  
MI & GWD circle,  
Kalburgi

*R. B. D.*  
Chief Engineer  
MI & GWD North Zone,  
Vijayapura

*✓*  
Secretary to the Government  
Minor Irrigation & Ground  
Water Development



## GENERAL ABSTRACT OF COST (AOC)

The total project cost includes construction cost, Consultancy cost, Third party evaluation cost, Tender Premium cost. The summary of cost estimate for Check dams / tanks and total project cost are summarized in below tables

### Summary of Cost Estimate

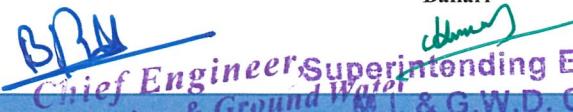
GENERAL ABSTRACT		
SL.No.	Description	Amount (Rs.)
1	CONSTRUCTION OF SERIES OF CHECK DAM TO STREAM/HALLA OF H.B.HALLI TALUK, VIJAYANAGARA DISTRICT (UNDER CEPMIZ)	19,14,73,740.15
2	Consultancy Charges (0.5%)	9,57,368.70
3	Third Party Evaluation (0.5%)	9,57,368.70
4	Provision For Tender Premium (5%)	95,73,687.01
5	GST 18%	3,65,33,189.62
6	Miscellaneous and Rounding off.	5,04,645.82
	<b>Total Rs.</b>	<b>24,00,00,000.00</b>
	<b>Rs</b>	<b>2,400.00</b>
		Lakhs



  
Section Officer

  
Executive Engineer  
MI & GWD Division,  
Ballari

  
Assistant Executive Engineer  
MI & GWD Sub Division,  
Hadagali

  
Chief Engineer, Superintending Engineer  
Minor SUMMER & Ground Water  
Development Department M.I. & G.W.D. Circle,  
(North) Zone, VIJAYPUR, KALABURGI.

## VIII. GENERAL ABSTRACT

### ABSTRACT

SL.No.	Description	Amount (Rs.)
1	CONSTRUCTION OF SERIES OF CHECK DAM TO STREAM/HALLA OF H.B.HALLI TALUK, VIJAYANAGARA DISTRICT (UNDER CEPMIZ)	19,14,73,740.15
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5	GST 18%	3,65,33,189.62
6	Miscellaneous and Rounding off.	5,04,645.82
	<b>Total Rs.</b>	<b>24,00,00,000.00</b>
	<b>Rs</b>	<b>2,400.00</b>

Lakhs



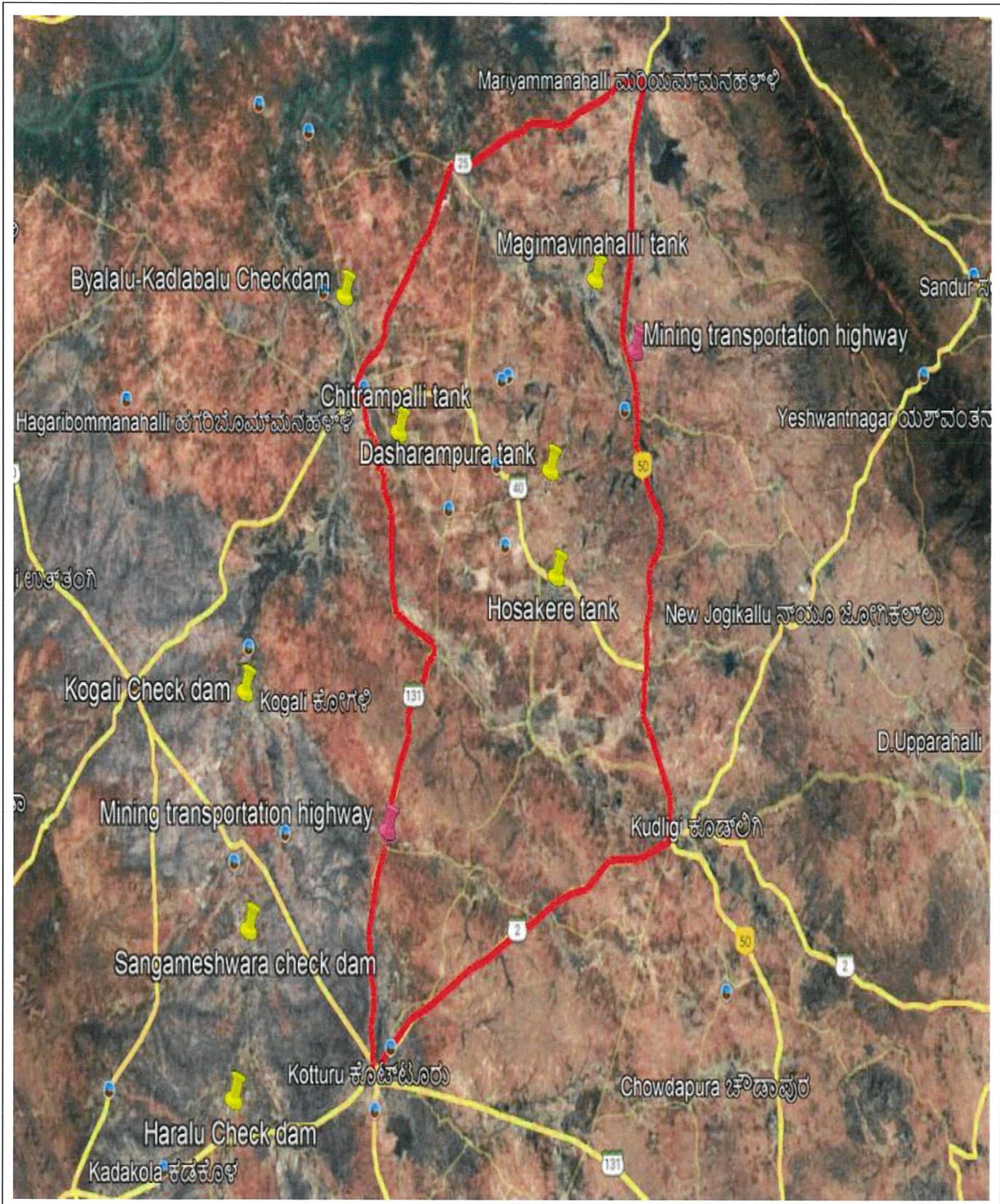
*K.V. Deepa Kere*  
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Kalburgi

*B. R. Raja*  
Chief Engineer  
MI & GWD North Zone,  
Vijayapura

*W.W*  
Secretary to the Government  
Minor Irrigation & Ground  
Water Development

Project Key Map



### Site Photos

A photograph showing a view of a tank with a fence in the foreground and palm trees in the background.	A photograph showing a wide view of a large body of water under a cloudy sky.
Magimavanhalli Tank-1	Magimavanhalli Tank-2
A photograph showing a view of a tank with a rocky shoreline in the foreground.	A photograph showing a view of a tank with a rocky shoreline in the foreground.
Dashamaapura Tank	Hosakere Tank
A photograph showing a view of a tank with a grassy shoreline in the foreground.	A photograph showing a close-up view of a tree with dense green foliage.
Chintrapalli Tank	Byalalu-Kadlalabu Checkdam
A photograph showing a view of a check dam with a small pond in the foreground.	A photograph showing a view of a check dam with a large tree in the background.
Sangameshwara Check dam	Kogali Check dam
A photograph showing a view of a check dam with a grassy foreground.	
Haralu Check dam	