



## KARNATAKA MINING ENVIRONMENT RESTORATION CORPORATION

(Govt of Karnataka Undertaking)

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No. KMERC/Watershed /100/2022-23

Date: 12.03.2024

**Sub:** Administrative approval for *“Eco- Restoration of Mining affected Bhramasagara 4D4B4T, Sirigere 4D4B4U ( 15 Micro Watersheds) Sub Watershed Chitradurga Taluka of Chitradurga District (Total Project Area: 8800.72 Ha, Total treatable Area: 8257.18 Ha)*

- Ref :**
- 1 7<sup>th</sup> Oversight Authority meeting Dated: 02.02.2023
  - 2 KMERC office letter No. KMERC/CEPMIZ/HO/WS/10/2022-23/1819, Dated: 21.02.2023.
  - 3 Secretary to Government Agriculture Department D.O. Letter No AGRI/CEPMIZ/Phase-1 TDPR/2023-24, Dated: 07.10.2023.
  - 4 KMERC Project Appraisal Committee Meeting dated: 22.11.2023.
  - 5 Communication of KMERC Project Appraisal Committee meeting proceedings No: KMERC/DPR/100/2022-23/115, Dated: 24.11.2023.
  - 6 Secretary to Government Agriculture Department Letter No AGRI/16/AML/2024, Dated: 03.02.2024.
  - 7 GO No: CI 215 MMM 2022 BENGALURU Dated: 13.03.2023.
  - 8 Oversight Authority 13<sup>th</sup> Meeting Dated: 09.02.2024
  - 9 Sub-committee meeting dated: 07.03.2024.

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**Preamble:**

The Karnataka Watershed Development Department Project for *“Eco-Restoration of Mining affected Bhramasagara 4D4B4T, Sirigere 4D4B4U ( 15*

**Micro Watersheds) Sub Watershed Chitradurga Taluka of Chitradurga District (Total Project Area: 8800.72 Ha, Total treatable Area: 8257.18 Ha)** under Comprehensive Environmental Plan for Mining Impact Zone (CEPMIZ) as ameliorative and mitigative measures to be implemented in the district of Chitradurga was approved by the Oversight Authority appointed by Hon'ble Supreme Court vide its order dated: 02.02.2023, vide ref. (1) and the Proposed Approval was communicated vide ref letter (2) to submit DPR for the Proposed project, as per the guidelines communicated along with. Brief details of the project is as detailed below.

<b>SINo</b> (as per OA Approved list)	<b>District</b>	<b>Sector</b>	<b>Sub-Sector</b>	<b>Project</b>	<b>Project Cost (Rs. In Lakhs)</b>
8	Chitradurga	Agriculture and Allied Activities	Agriculture (Watershed)	<i>"Eco- Restoration of Mining affected Bhramasagara 4D4B4T, Sirigere 4D4B4U ( 15 Micro Watersheds) Sub Watershed Chitradurga Taluka of Chitradurga District (Total Project Area: 8800.72 Ha, Total treatable Area: 8257.18 Ha)</i>	1980.16
<b>Total Project cost Rs in Lakhs</b>					<b>1980.16</b>

Secretary to Agriculture Department after technical scrutiny by competent authority vide ref (3) submitted the DPR for the Project for ***"Eco- Restoration of Mining affected Bhramasagara 4D4B4T, Sirigere 4D4B4U ( 15 Micro Watersheds) Sub Watershed Chitradurga Taluka of Chitradurga District (Total Project Area: 8800.72 Ha, Total treatable Area: 8257.18 Ha)*** and requested Administrative approval for an amount of Rs **1980.16** Lakhs.

The DPR is reviewed by the Appraisal Committee on 22.11.2023 vide reference (4) with regard to the output and outcomes for which the project was

approved by the Oversight Authority and the committee has made some observations/suggestions and the minutes of the Appraisal Committee was communicated to the department vide ref. letter No (5) above. Commissioner Watershed Development department has made some revision to the DPR based on the suggestions made by the Appraisal Committee and Guidelines of PMKSY–WCD 2.0 and re-submitted the revised DPR through Secretary Agriculture vide ref. letter (6) above. Variations in the Project Area, Treatment area, Project Cost and outputs were approved/ratified by the Oversight Authority vide ref (8).

SI No	Name of the project	Cost approved in 7 <sup>th</sup> OA (Rs in Lakhs)	Cost Recommended by HOD (Rs in Lakhs)	Cost Recommended by Appraisal Committee of KMERC (Rs in Lakhs)
1	<i><b>"Eco- Restoration of Mining affected Bhramasagara 4D4B4T, Sirigere 4D4B4U ( 15 Micro Watersheds) Sub Watershed Chitradurga Taluka of Chitradurga District (Total Project Area: 8800.72 Ha, Total treatable Area: 8257.18 Ha)</b></i>	1980.16	1651.37	1651.37

**ADMINISTRATIVE APPROVAL ORDER No. CEP Miz /2023-24/02/  
WDD/C/KMERC/00407, Dated: 12.03.2024.**

As explained in the preamble, and as per approval of the Appraisal Committee vide ref. (4), compliance report by Commissioner, Watershed Development Department through Secretary, Agriculture Department vide ref. letter No (6), and as per GO vide ref. (7) above, the administrative approval of the above project, as per enclosed Annexure, is hereby accorded.

***"Eco- Restoration of Mining affected Bhramasagara 4D4B4T, Sirigere 4D4B4U (15 Micro Watersheds) Sub Watershed Chitradurga Taluka of Chitradurga District (Total Project Area: 8800.72 Ha, Total treatable Area: 8257.18 Ha) For Rs 1651.37 Lakhs (Rupees one thousand six hundred and fifty one lakhs and thirty seven thousand only)***



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

**A. General conditions: -**

1. The approved Project should be taken up as per the prevailing norms / rules of the Implementing Department.
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 concerned Administrative Department/ Implementing Agency may not entrust the implementation of the approved work(s) to another Administrative Department/ Implementing Government Agency without the permission of KMERC.
4. 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. 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. The activities to be taken up within the forest areas shall necessarily conform to the Approved Working Plans of the Karnataka Forest Department and the permission of Karnataka Forest department should be obtained.
5. 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.
6. 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.

7. Progress report of the project shall be periodically (monthly/ quarterly/annually/project-end) 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.
8. 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 Kml file be sent to KMERC for record.
9. The department shall maintain Asset register for all the assets created under the CEPMIZ Project.
10. The CEPMIZ asset created shall not be disposed off, encumbered or utilized for purpose other than for which funds have been provided by KMERC.
11. Prior approval from KMERC shall necessarily be taken for any change in the cost, scope or location of the project work approved hereunder.
12. Funds for the project are readily available and will be released based on progress. No additional funds, over and above the amount sanctioned hereby are provided, due to Tender premium, delay in execution or any other reason.
13. 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 and arrived as per KTPP Act.
14. The executing agency shall prepare the list of the Villages/beneficiaries (wherever applicable) who are to benefit from the projects and provide to KMERC & upload in the KMERC portal.

15. Success stories of the implemented projects are to be prepared and provided to KMERC by the executing agencies after completion of the projects.
16. 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 may be scrutinized periodically by the Internal Auditor of KMERC, as well as annually by Accountant General.
17. Utilization Certificates should be submitted after utilization of funds released.
18. Concerned department shall ensure internal Audit of the CEPMIZ project expenditure, annually and submit the report to the KMERC, along with Action Taken Report.
19. 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.
20. The Implementing Agency shall also carry out concurrent monitoring and 3<sup>rd</sup> party evaluation of the project and shall share reports to KMERC and on its portal.
21. 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.
22. The Implementing Department/Agency shall be responsible for all payments made or recommended by it to be made on account of the project.
23. The prescriptions/directions/instructions given in the financial management guidelines and the project implementation manual prepared and published in the KMERC Website should be followed, where ever applicable. All registers, formats, documents, records should be maintained as said in the guidelines.



24. The proposed project must be site specific with Geo-tagged photos, short videos and success stories of the implemented projects are to be prepared and provided to KMERC by the executing agencies after completion of the projects.

**B: Project specific conditions:-**

25. The total fund allocation should be as per existing departmental norms Guideline. The DPR preparation cost will be within 1% of allocated provision. Correction should be made restricting DPR preparation cost to 1% while preparing DPR through Net planning with detailed survey. However, it will be restricted up to 1% or to the actuals whichever is less while making the payment.
26. The Total administrative cost should be restricted up to or within 13% of the project cost (1% DPR preparation cost, 2% ME & LD cost, 10% Administrative cost).
27. The Forest Area and the Non-Treatable areas should be excluded from treatment and certificate has to be provided in the final DPR which will be submitted after Net planning exercise.
28. It is suggested and should be ensured that Agro Forestry should not be taken up by Forest Department in watershed areas. Road side plantations and urban/institutional planting which needs technical skill can be carried out by Forest department.
29. The work expenditure bills of completed works should be examined and recommended by the Controlling officer of the implementing agency in the department to KMERC for release of funds.
30. Payments for DPR Preparation cost should be made as per actuals keeping in mind the cost of the project.
31. It is suggested to construct all Check dams with RCC structures, keeping in mind its longevity.

32. The assets created in common land can be identified and maintenance can be provided. This must be entrusted to dedicated institution/user groups to look after for long term sustenance, to safe guard and protect such assets
33. Arecanut should not be promoted in any watershed development project, being water intensive crop. But activities such as making Arecanut plates and Arecanut processing etc. can be taken up under Production system or Livelihood activities.
34. The livelihood item to be taken up under the project should not be overlapping with NRLM or other programme.
35. The LRI should be done through some expert institutions to obtain complete information about Soil, Water and Nutrient content and same to be used in planning and execution of the project.
36. While choosing beneficiaries for distribution/issual of benefits emphasis should be given to vulnerable household, unemployed youths, women and poor people under the project.
37. Detailed DPR which will be prepared next by the Department through net planning should have Survey Number wise, location wise, beneficiary wise details. Global co-ordinates of the structures and other activities should be provided which will help in avoiding overlapping of the project components. This information should be made available in public domain.
38. Detailed estimates for each works and structures should be duly prepared, countersigned and scrutinized by the competent authorities and submitted as Technical DPRs/addendum/Annexures along with final project DPRs. On approval of this only funds will be released.
39. Forest Department at the local level can be consulted and DPRs can be exchanged to avoid the overlapping of the activities.
40. The tree saplings (Perennial trees) can be planted between the bund and mound for sustainability of Agro-forestry. To achieve better survival rate, saplings planted should be watered during summer months. While choosing the species Silviculture knowledge, economic viability, usefulness to farmers should be considered.



41. Existing Kalyani wells, step wells and traditional water harvesting structures in the watershed should be compulsorily identified and proposed for their rejuvenation.
42. Maps showing present land use viz project land, Agriculture land, Forest land, etc. are to be provided along with the detailed DPRs.
43. All the projects must have a measurable outcome, against which it should be possible to be evaluated.

  
Managing Director  
KMERC

**To:**

1. Secretary to Government, Agriculture Department, Bengaluru.
2. Commissioner Watershed Development Department, Bengaluru.
3. Deputy Commissioner, Chitradurga District.
4. Joint Director of Agriculture, Chitradurga District.
5. Chief Finance Officer, KMERC. Bengaluru.

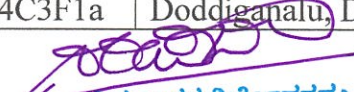
**Copy for Kind Information:**

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

## CHAPTER - I

### 1.1 Project at a Glance

1.	Name of Project	<b>Project Name : Bharamasagara-4D4B4T, Sirigere - 4D4B4U SWS</b>			
2.	Name of Scheme	<b>Comprehensive Environment Plan For Mining Impact Zone (CEPMIZ)</b>			
3.	Name of State	<b>Karnataka</b>			
4.	Name o District	<b>Chitradurga</b>			
5.	Name of the Taluk	<b>Chitradurga</b>			
6.	Name of Sub Watershed	<b>Bharamasagara-4D4B4T, Sirigere - 4D4B4U SWS</b>			
7.	Name and Code of Micro Watershed	<b>Sl.No</b>	<b>Micro watershed Name</b>	<b>Micro Code</b>	<b>Area (Ha)</b>
		1)	Sigehalli	4D4B4T1a	775.39
		2)	Haluvudara	4D4B4T1b	808.21
		3)	Gollarahatti -1	4D4B4T1c	484.62
		4)	Gollarahatti -2	4D4B4T1d	654.33
		5)	Kolahalu	4D4B4T2a	760.55
		6)	Bharamasagara	4D4B4T2b	903.80
		7)	Hosahatti	4D4B4U1a	502.9
		8)	Siddapura	4D4B4U1b	349.26
		9)	Jammenahalli	4D4B4U1c	541.37
		10)	Sirigere - 1	4D4B4U2a	406.74
		11)	Sirigere - 2	4D4B4U2b	738.71
		12)	Hanumanahalli	4D4B4U2c	745.37
		13)	Linganatihalli	4D4B4U2d	296.59
		14)	Gollarahatti-1	4D4C3G1a	304.84
		15)	Kagalagere-1	4D4C3F1a	528.04
		<b>Total Geographical area</b>			
					<b>8800.72</b>
8.	Name of Concern villages	<b>Micro Code</b>	<b>Villages Name</b>		
		4D4B4T1a	Doddiganalu, Seegehalli. Alagavadi, Hosarangapura, Palakihalli		
		4D4B4T1b	Obalapura, Arabhagatta		
		4D4B4T1c	Sirigere, Seegehalli, Hale Rangapura		
		4D4B4T1d	Arabhaghatta, Kolal (Gollarahatti) Lingadahalli		
		4D4B4T2a	Kolahalu, Shivanakere, Chikkabennuru		
		4D4B4T2b	Bharamasagara, Gollarahatti, Heggadahalli, Kasavanahalli		
		4D4B4U1a	Hosahatti, Doddiganalu, Medakeripura		
		4D4B4U1b	Sirigere, Siddapura, Doddiganalu, Horakenahalli, Medakeripura		
		4D4B4U1c	Siddapura, Jammenahalli, Hosahatti, Palakihalli, Hosarangapura		
		4D4B4U2a	Alaghatta, Sirigere, Siddapura, Chikkenahalli		
		4D4B4U2b	Sirigere, Halerangapura, Hosarangapura		
		4D4B4U2c	Obavvanagathihalli, Hanumanahalli, Halerangapura, Linganakattehalli, Chilangi		
		4D4B4U2d	Lingavvanagathihalli, Chilangi		
		4D4C3G1a	Doddiganalu, D. Madakaripura		
		4D4C3F1a	Doddiganalu, D. Madakaripura,		

  
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9.	Total Geographical area of Project	8800.72 ha.			CHAPTER - 2
10.	Total treatable Area	8257.18 Ha			
11.	Cost per hectare	Rs 22000/Ha as per PMKSY WDC 2.0 Guide line			
12.	Project period	5 years			
13.	Total Approved Cost	Rs. 1980.16 Lakhs.			
14.	Total Proposed Cost (Including LRI Cost)	Rs.1651.37 Lakhs			
15.	Number of GPs	3			
16.	Total no of Families	7379			
17.	Categories of Farmers concern	Sl.No	Category	No of Farmers	
		a.	Big farmers	1178	
		b.	Small Farmers	1454	
		c.	Marginal Farmers	2140	
		d.	Landless	267	
		Total		5039	
18.	Average Rainfall	653 mm (10 Years Average)			
19.	Agricultural crops grown in the Project Area	Kharif	Rabi	Summer	
		Ragi, Maize, Avare	Ragi, Onion, Maize, Redgram,	Ragi, Maize	
20.	Horticulture Crops grown in the Project Area	Coconut under rainfed condition Area: 146.48 ha Areca nut under semi irrigation Area: 2451.35 Ha			
21.	Area under different land use	a. Forest Area - 00 b. Concern Private land in ha Rainfed - 5099.02 Irrigated - 2450.37 c. Non Treatable area - 543.54			


  
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## Annexure – 1 :Project at a Glance :

Sector :	Agriculture & Allied	Sub Sector:	Watershed	Standalone Project or in Convergence	Standalone
Project Name :	Watershed Development Bharamasagara - 4D4B4T, Sirigere- 4D4B4U SWS			Project Type :	New
Proposal Submitted By	JDA, Chitradurga	Implementing Agency	Assistant Director of Agriculture, Chitradurga		
Project Location / Coverage	Chitradurga Taluk, Chitradurga District	Total Proposed Project Cost (INR Lakhs)	:1651.37	Project Duration (Yrs.)	5 Years
Project Objectives / Benefits	<ul style="list-style-type: none"> <li>➤ To improve productive potential of rainfed / degraded land through integrated watershed management; to strengthen community based local institutions for promotion of livelihoods &amp; watershed sustainability,</li> <li>➤ Improving intensity and productivity of various crops, livestock, fisheries and biomass production systems through optimal, integrated, sustainable and efficient use of natural resources in project areas.</li> <li>➤ Recognizing the stake of non-land holding project members, and promoting alternate livelihood opportunities.</li> <li>➤ Ecological restoration and sustainable management of natural resources across project area</li> <li>➤ Improving the economic and social conditions of the resource poor, asset-less, differently-abled and women.</li> </ul>				

Project Output / Activities						Project Outcomes / Benefits							
Sl. No	Major Project output Activities	Measuring Unit Ha / No / Rmt	Qty / Nos	Unit Cost in Lakhs	Total Cost	Sl. No	Major Envisaged Outcomes(Measurable Benefits)	Parameter for measuring the Benefit	Assumption / Risks in choice of Parameter				
									Pre	Post	Differenc e	%	Increase/ Decrease
1.	Trench Cum bunding	Ha	1849	0.14496	291.918	1.	Recharging of the ground water table (Rise in Water table )	Meter	210	192	18	8.57	Increase
2.	Check Dam	No	35	5.00	204.88	2.	Non-cultivable /fallow land brought under cultivation	Ha	706	480	226	32	Decrease
3.	Nalabund	No	12	6.00	88.110	3.	Area expansion by adapting Horticulture & Forestry activities	Ha	2597.8	3053.8	456.00	14.93	Increase
4.	Gokatte	No	10	5.00	57.20	4.	Rain Water Harvesting(Area under protective irrigation & No. of benefited farmers)	Ha	1687	2087	400	23.71	Increase
5.	PT	No	2	6.00	14.52			No.	1726	2105	399	23.38	Increase
6.	MPT	No	2	1.18	2.60	5.	Provide sustainable livelihood to the asset less people of the project area(Income status & no. of beneficiaries)	Rs./ Month	6000	8000	2000	33.33	Increase
7.	Afforestation	Ha	78.85	0.115	52.68			No.	500	1534	1034	67.40	Increase
8.	Dry land Horticulture	Ha	299	0.250	101.88	6.	Multi cropping and introduction of diverse agro-based activities (Cropping intensity)	Ha	2802	3205	403	14.38	Increase
9.						7.	Monitoring soil erosion through silt monitoring	Feet	Silt monitoring station will be installed at the work site / sub watershed level to monitor sediment fill up, runoff and soil erosion.				

  
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## 1.5. Project Implementation and Expenditure Schedule (Year Wise Scheduling)

Name of the Taluk: CHITRADURGA  
Total Geographical Area: 8800.72 Ha  
Treatable area : 8257.18 Ha

Name of the project: Bharamasagara, Sirigere SWS  
Total Approved Cost : (Rs in lakhs) 1980.16  
Total Proposed Project cost : (Rs in lakhs) 1651.37

Sl.No	Components	% Allocation	2023-24	2024-25	2025-26	2026-27	2027-28	Total Amount Rs.in Lakhs
1	Administrative cost	10.00	40.20	40.20	26.76	26.76	26.76	160.68
2	Monitoring and Evaluation	2.00	3.50	9.80	8.40	6.80	3.70	32.20
3	Entry Point Activities	2.00	32.15					32.15
4	Detail Project Report	1.00	11.04	1.10	1.21	1.33	1.46	16.15
5	Institution and capacity building	3.00	29.11	13.81	4.30	0.50	0.50	48.22
6	Soil and water conservation	44.00	124.49	290.31	219.19	73.21		707.19
7	Afforestation	3.28	9.38	17.28	14.02	7.40	4.60	52.68
8	Dry land Horticulture	5.72	24.25	39.56	28.17			91.98
9	Fodder Development	1.00	1.80	6.93	6.90	0.45		16.07
10	Production system	15.00	48.24	107.3	85.6			241.10
11	Natural Resource Management and Governance	1.00		4.02	4.02	4.02	4.02	16.07
12	Livelihood activities for asset less persons, micro enterprises and business development	11.00	0.00	86.50	90.31	0.00		176.81
13	Consolidation and withdrawal phase activities	1.00				0.00	16.07	16.07
Sub Total		100.00	324.16	616.80	488.84	120.46	57.12	1607.37
LRI Cost			44.00					44.00
Grand Total			368.16	616.80	488.84	120.46	57.12	1651.37

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Joint Director of Agriculture  
Chitradurga

Joint Director of Agriculture  
(Soil Conservation)

Director  
Watershed Development Dept

Commissioner  
Watershed Development Dept

Secretary of GoK  
Agriculture