## Project under Climate Change Action Programme (CCAP) of MoEFCC, Gol

Project	Name/Title:	Enhancing	Adap	otive	Capac	ity to	Climate	Change	throug	gh
		Conservatio	on of	Trac	ditional	Water	Supply	Sources	(Wells	&
		Bawdies) of Burhanpur City								

Name of the	Additional Information on the contact detail,:					
Implementing	Madhya Pradesh State Knowledge Management Centre on Climate Change (MP					
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	Start and close date:					
	2 years, Mar 2019 – Feb 2021					
	Website:					
	http://www.climatechange.mp.gov.in					
Details of	Project partners-					
Project	1. MP SKMCCC, Department of Environment, GoMP, Bhopal.					
	2. Burhanpur Municipal Corporation, Burhanpur					
	3. Divisional Forest Office (General), Burhanpur					
	Project Cost-					
	Rs. 5.00 crores					
	Project objectives-					
	<ul> <li>Enhance resilience of Burhanpur city against climate change impacts by conserving</li> </ul>					
	traditional water supply sources (Kundi Bhandara Network, Wells & Bawdies)					
	<ul> <li>Augmenting groundwater levels through rainwater harvesting and catchment area</li> </ul>					
	treatment					
	<ul> <li>Community participation for effective management of water resources</li> </ul>					
	Project baseline-					
	– UNESCO recognized Heritage City network known for "Qanats", a unique 400 years					
	old traditional water harvesting system, consists of underground channels that convey water from aquifers in highlands to the surface at lower levels					

	<ul> <li>Offers a practical, low cost solution to provide sustainable water</li> </ul>							
	<ul> <li>Oldest system of human engineering to address water stress</li> </ul>							
	resilience practice for	groundwater						
	management for regions facing water scarcity							
	<ul> <li>10-15% of water is still from kundi Bhandara in Burhanpur</li> <li>Project expected outputs/deliverables-</li> </ul>							
		-	adias in Rurhannur a	ad suggests pacessan				
	Project has identified 71 traditional water bodies in Burhanpur and suggests necessary interventions for their revival and restoration, thus, helping in building resilience of the water sector in Indore with respect to climate change.							
Project Relevance	Indian cities are experiencing rapid urbanisation and peri-urban growth, In the last decade, MP has registered a high urban growth as compared to its rural population. The impacts of water scarcity are felt particularly in the city areas with high population density, poor settlements that have limited or no access to piped water supplies and peri- urban areas where the supply network is yet to be extended. Hence, there is an urgent need to conserve the local traditional water systems and improve water use efficiency.							
Project work plan	<ul> <li>The methodology of the project included following:-</li> <li>1) Survey and investigation of traditional water sources</li> <li>2) Physical Restoration of traditional water supply sources <ul> <li>a. Restoring 71 traditional wells and bawdies</li> <li>b. Physical restoration of Kundi Bhandara Network</li> <li>c. Rain water harvesting in 250 Govt. Buildings</li> </ul> </li> <li>3) Kundi Bhandara catchment area treatment including activities such as plantation, grassland development, soil moisture conservation etc.</li> <li>4) Facilitate community engagements for effective management of traditional water conservation system</li> </ul>							
Project Implementation results	<ul> <li>Development of DPR may help in evolving following strategies:-</li> <li>1) Appropriate GIS data base of existing water bodies along with its status.</li> <li>2) Assess the effect of level and quality of water in various seasonal variations.</li> <li>3) Promoting water storage at all levels, creating reliability and security of clean water.</li> <li>4) Evolving framework for sustainable water management policies.</li> </ul>							
Project benefits	Component /	Social	Economical	Environmental				
Project benefits	Component / Activities	Social	Economical	Environmental				
Project benefits		Social Increased water	Economical Cost savings of Rs.	Environmental Increased water				
Project benefits	Activities							
Project benefits	Activities Physical restoration	Increased water	Cost savings of Rs.	Increased water				
Project benefits	Activities Physical restoration of traditional water sources	Increased water availability	Cost savings of Rs. 17.3 lakh per annum	Increased water availability and groundwater recharge				
Project benefits	ActivitiesPhysical restoration of traditional water sourcesKundiBhandara	Increased water availability Local JFMCs / SHGs	Cost savings of Rs. 17.3 lakh per annum Increase in forest	Increased water availability and groundwater recharge Increased				
Project benefits	ActivitiesPhysical restoration of traditional water sourcesKundiBhandara catchment	Increased water availability Local JFMCs / SHGs will benefit from the	Cost savings of Rs. 17.3 lakh per annum	Increased water availability and groundwater recharge Increased groundwater				
Project benefits	ActivitiesPhysical restoration of traditional water sourcesKundiBhandara	Increased water availability Local JFMCs / SHGs	Cost savings of Rs. 17.3 lakh per annum Increase in forest	Increased water availability and groundwater recharge Increased				

				sequestration, vegetation gro increased moisture	owth, soil		
	Community engagements and partnerships	Building community ownership of water sources to maintain and manage water bodies	Benefits associated with reduced water scarcity	Conservation water sources	of		
Project long term climate benefits	Diversify water supply and promote water storage at all levels, also increasing the awareness among different socio-economic groups about the surface and groundwater uses and conservations.						
Project Sustainability	Climate change has both direct and indirect impact on urban/rural water sectors. Enhancing climate resilience will aid in improving governance in the water sector, thereby creating water systems that are sustainable and equitable to meet the present and future water needs.						

