DRAFT PLANNING STRATEGY FOR EXECUTION OF WATER AID INDIA PROJECT
AT UNIVERSITY OF HYDERABAD

The Email has been perused by the Campus Committee and your proposal is highly appreciated. Most of the Water Management activities are interlinked with each other and to streamline the requirements & adopt a holistic approach, you are requested to go through the technical data sheet given below and clearly mention your interest/ participation against each of the tasks in the interested/not interested column so as to enable this university to formalize a comprehensive water management plan. A separate checklist will be sent on lake rejuvenation and also requested to provide the locations of said abandoned borewells locations and injections wells.

Steps	Action	Responsibility	Remarks	Progress	Interested / Not Interested
1	Make a layout of the university campus and mark borewells and water bodies to correctly identify the locations.	Joint	INTERESTED PARTY to provide technical assistance	Work completed	
2	Qualitatively categorize all borewells based on feedback from users and engineering staff.	University	University to carry out the work	Work Completed	
3	Carry out TDS test for all borewells and categorize them into clusters based on quality of water	University			
4	Carry out laboratory analysis of water for each cluster and recommend treatment methodology (if required)	INTERESTED PARTY	Testing of water samples to be undertaken by INTERESTED PARTY		
5	Analyze and map the area based on above water quality parameters and demarcate into zones (WQ Zones) in ascending order from 1 to 5, based on quality of water with 5 being the best and 1 being the least quality.	JOINT	Categorization based on lab results		
6	Map the geological profile of the WQ Zones to identify the following: - Confined aquifers - Unconfined aquifers - Nature of rock strata whether contributing to hardness or not.	INTERESTED PARTY	Utilize the lab results.		
7	Make contour maps of university, identify the water shed areas of the campus and overlay them on each WQ Zone to	INTERESTED PARTY	Use field survey, GIS mapping and		

	corelate the WQ Zones and respective water shed areas and study the following: - Quantity of water flowing into each WQ Zone. - Demarcate the areas causing water pollution/hardness in the water shed regions. - Isolate such pollution/hardness causing areas. Corelate the underground rock strata with the water quality.		water flow measuring instruments.		
8	Formulate strategy and mechanisms to divert maximum Rain water into Good quality WQ Zone aquifers.	JOINT			
9	Build monitoring mechanisms to calculate the quantity of water flowing into the ground water confined aquifers and total amount of stored UG water.	INTERESTED PARTY	Use flow measurement instruments		
10	Recommend locations and dig new borewells.	INTERESTED PARTY	Use INTERESTED PARTY expertise and obtained data for planning		
11	Recommend locations and build new UG sumps for each WQ Zone (if required) and integrate with existing UG sumps.	JOINT			
12	Recommend industrial water softeners if WQ Zone is of inferior quality.	INTERESTED PARTY			
13	Recommend measures to tap ground water in unconfined aquifers. Also study the drawdown effect on UG water due to adjacent construction activity.	INTERESTED PARTY			
14	Make and automate layout of the water supply grid, digitize the grid and integrate the same with the existing layout.	INTERESTED PARTY			
15	Recommend locations for overhead water tanks.	JOINT			
16	Carry out a water quality test of surface water bodies	INTERESTED PARTY	Use INTERESTED PARTY expertise and facilities		
17	Ascertain the relationship between the open water resources and underground aquifers				
18	Recommend treatment methodologies.				
19	Propose and identify remedial actions to prevent further deterioration of lakes.				
20	Plan and execute out lake rejuvenation programs				