

ReviewForm3

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_123843
Title of the Manuscript:	Delineation of potential groundwater recharge zones for the North Gujarat region of Gujarat state using RS&GIS and MCDA techniques
Type of the Article	

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	-Due to the rapid increase in population and industrialization has significantly raised the consumption of groundwater resources for domestic, agricultural, and industrial purposes. -The finding of this research has the value for effectively planning and managing groundwater resource development in the North Gujarat region of Gujarat state.	
Is the title of the article suitable? (If not please suggest an alternative title)	I suggested title " Determining potential groundwater recharge zones in the North Gujarat region of Gujarat state using Techniques of Geoinformatics and Multi-criteria Decision Analysis "	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	There are some sentences that should be adjusted correctly such as: -Should be rewritten as "An integrated approach of remote sensing (RS), geographical information system (GIS), and multi-criteria decision analysis (MCDA) were used to achieve this goal." -Should be rewritten as "Influencing factors of groundwater availability included geology, soil, lineament density, slope, rainfall, land use/land cover, geomorphology, and drainage density, were analyzed to delineate potential groundwater recharge zones." -Should be rewritten as "each influencing parameter was determined by using Saaty's Analytic Hierarchy Process (AHP) method, and sub-parameters were ranked according to the AHP scale." -Should be rewritten as "the classified results of the recharge potential area in study area consist of excellent (9.93%), good (27.90%), moderate (17.58%), poor (3.92%), and very poor (0.92%)."	
Are subsections and structure of the manuscript appropriate?	-I suggest that it should add sections of literature review or add data in introduction.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	-The base map was created with 30m spatial resolution using SRTM DEM data, it is suitable for this study because it related to RS images at 30m spatial resolution from USGS. -Using precipitation data spanning the years 1981 to 2020 (they were collected from various stations, with the data obtained through the State Data Centre in Gandhinagar and the Gujarat State Disaster Management Authority) are suitable for this study because The agency's information has been used to benefit.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention	Author should add references.	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General comments	In topic of conclusions, it should be divided into 2 parts: (1) conclusions and (2) directions for future research.	

ReviewForm3
PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Yaowaret Jantakat
Department, University & Country	Rajamangala University of Technology, Thailand