

**Ram Moorat Singh**

**Postal Address:**

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**Objective:**

I want to get a challenging position in the field of mining, exploration, and geological research, where I can utilise my knowledge and prove my ability to the organization/department.

**Software/Hardware Understanding:**

- ENVI, SAS-Planet, VISAN
- Q-GIS, I-GIS, VISAN 3.19, & Google Earth
- Auto CAD, SNAP Sentinel Application Platform
- Arc-GIS, COSI- Corr Software and CIAS Software
- ERDAS Imagine & GDAL
- Handheld GPS Garmin etrex

**Scientific Societies:**

- IPRN, International Mountain Day Life member
- Indian Society of Remote Sensing (L-4681)
- Vigyan Bharti (Life member)

**Academic Educational Profile:**

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|--|----------|
| • High School (10 <sup>th</sup> ) from M.P. Board, Bhopal with     | 77.17%.  |
| • Higher Secondary (10+2) from M.P. Board, Bhopal with PCM Group   | 68.2%    |
| • B.Sc. (Geology) M.G.C.G.V. Chitrakoot, Satna (M.P.) with         | 68.8%    |
| • M.Sc. (Applied geology) M.G.C.G.V. Chitrakoot, Satna (M.P.) with | 79.01%   |
| • Ph.D. (Applied Geology) NIT, Raipur, Chhattisgarh                | On-going |

**Achievement's/Award:**

- IPRN (APECS India) International Mountain Day Photo contest - **2020 winner**.
- National award of 2016 (**ISG, ISRS/IIRS ISRO**) Best Paper Presentation Award (Student category).
- PCM Group got First Prize in Higher Secondary School MP Board Bhopal.
- Got Second Position in High School MP Board Bhopal.

**Experience:**

- Working with Space Applications Centre **ISRO** Ahmedabad Gujarat INDIA as a Trainee (M.Sc. fourth semester dissertation work) from 29<sup>th</sup> January 2016 to 15<sup>th</sup> June 2016.
- Working with Madhya Pradesh Agency for Promotion of Information Technology (**MAP-IT**), State IT Centre, Bhopal INDIA as a GIS Executive From 19<sup>th</sup> Oct 2016 to 4<sup>th</sup> March 2018.
- At Present, working with Chhattisgarh council Science & Technology (**CCOST**), Chhattisgarh Space Applications Centre (**CGSAC**), Raipur Chhattisgarh INDIA as a Junior Research Fellowship (JRF) from 5<sup>th</sup> March 2018 to till date.

**Technical profile:**

- Operating Systems : Windows XP/Vista/7/8.1/10
- Application Packages : Internet
- Emerging technologies : Remote Sensing, GIS
- ESRI GIS : ArcGIS 9.3, 10, 10.1, 10.2, 10.3, 10.4, 10.5.1
- Open Source : Quantum GIS (Q-GIS), Web GIS & Mapping, Web Server
- Other GIS Tools : Global Mapper, Google Earth with APIs.
- Image Processing Software : ERDAS Imagine 11, 9.2, ENVI
- Other Tools : Microsoft Office Suite (Word, Excel, & PowerPoint).

**Competencies:**

- Dedicated and fully committed toward the profession.
- Positive attitude, good communication skills, and teamwork.
- Strong analyst, Able to multi-task, Honest, and Sincere.
- Hard worker with a high level of Integrity.

**Job Responsibility:**

- DEMs Extraction with Leica Photogrammetry Suite (LPS). (ERDAS Imagine)
- DEM differencing of high-resolution HMA, ASTER, Cartosat 1 and SRTM DEMs of studied glacier after co-registration & before co-registration. Elevation changes of studied glacier. (ENVI)
- PAN sharpened the images by ERDAS Imagine and GDAL Software.
- Georeferencing all Digital khasra of Madhya Pradesh and Chhattisgarh.
- Delineation of village boundary, tehsil boundary and District boundary.
- PMGSY road digitization on Google earth and road verification.
- Ward Boundary & Village boundary updation work.
- Narmada Project Work (QA & QC) of identified Villages cadastral data and ensuring its proper georeferencing over satellite image.

- Hydrological Mapping, DGPS Survey, and other GIS layers.
- Image Processing (Optical and & Microwave).

**Academic Project:**

**Title:** Characteristics of Himalayan glaciers with lakes, Kosi Sub-Basin, Ganga Basin: Based on remote sensing and GIS techniques

**Guide:** Dr. Arun Kumar Sharma

**Organization:** Space [Applications Centre-ISRO, Ahmedabad, Gujarat India](#)

**Tools:** ARC-GIS, ENVI, ERDAS Imagine, Microsoft Office

**Details:** This project work is carried out as a part of M.Sc. fourth semester dissertation work. Project is carried out for the detailed analysis of lakes in Himalayan glacier. We have developed a methodology to identify various types of lakes in Himalaya regions and their properties using remote sensing technologies. We have also calculated the area of the lakes in study area. As the part of project work the volumetric analysis has been carried out.

**Fieldwork/seminar/training:**

- Participated one week short term training program on “**Recent Advancement in Ground water Development and Management**”, under **TEQIP-II** held from 08<sup>th</sup> August 2016 to 12<sup>th</sup> August 2016, in the Department of Applied Geology, National Institute of Technology, and Raipur.
- Participated 3-days training program by National Symposium on “Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems” & Annual Conventions of Indian Society of Remote Sensing & Indian Society of Geomatics held During December 7-9, 2016 at Dehradun, India.
- Wadia Institute of Himalayan Geology (**WIHG**), Dehradun from 05-11-2018 to 09-11-2018 for his PhD program, during this visit, he successfully completed first module on **Surge Glacier Dynamics** using feature-tracking technique based on optical satellite data.
- Wadia Institute of Himalayan Geology (**WIHG**), Dehradun from 10-03-2019 to 15-03-2019 for his PhD program, during this visit, he successfully completed second module on **Surge Glacier Dynamics** using feature-tracking technique based on optical satellite data.
- Wadia Institute of Himalayan Geology (**WIHG**), Dehradun from 11-08-2019 to 19-08-2019 for his PhD program, during this visit, he successfully completed second module on **Surge Glacier Dynamics** using feature-tracking technique based on optical satellite data.

- Wadia Institute of Himalayan Geology (**WIHG**), Dehradun from 10-01-2020 to 20-01-2020 for his PhD program, during this visit, he successfully completed third module on **Surge Glacier Dynamics** using feature-tracking technique (Cosi-Corr software) based on optical satellite data.
- Chhattisgarh council Science & Technology (**CCOST**), Raipur, Chhattisgarh, has been awarded this certificate on having completed the course on “Advanced Image Analysis” conducted by this institute from June 4, 2018 to June 18, 2018.

**Research Publication:****International Peered Review Articles – 01**

- **Singh, R.M.**, Govil, H., Shahi, A.P., Bhambri, R., **2020**. Characterizing the glacier surge dynamics in Yarkand basin, Karakoram using remote sensing. Quaternary International. doi: <https://doi.org/10.1016/j.quaint.2020.06.042>  
<https://www.sciencedirect.com/science/article/pii/S1040618220303542>

**Conference Papers – 02**

- **Ram Moorat Singh**, Arun Kumar Sharma, & Ravi Chaurey; (**2016**), Characteristics of Himalayan glaciers with lakes, Kosi Sub-Basin, Ganga Basin: Based on remote sensing and GIS techniques. Department of Space, Govt. of India (IISR/ISRS, ISRO Dehradun 7-9 December 2016 National symposium)  
{Awarded Best Paper Presentation Award (Student category) 2016 at IIRS / ISRS, ISRO Dehradun, India}
- Santosh Kumar, Dr. Ravi Chaurey, **Ram Moorat Singh**, Dr. Rakesh Dubey, & Anoop K Patel; (**2018**), Identification of Groundwater Potential Zone using Geoinformatics in part of Mandakini River Basin, Chitrakoot, India. “IJARIE”, 4(3), 33-39. (PRSC-ISG National Conference, February 21-23, 2018, Ludhiana, Punjab, (India).

**International Peered Review Articles – 02**

- Rupanarayan, **Ram Moorat Singh**, Akanksha Agrahari, Hemant Dansena, & Dinesh Kumar Darudkar Soni. (**2018**). Agricultural crop condition assessment using satellite based vegetation condition index and rainfall anomaly index over selected tehsil in Chhattisgarh, India. “IJARIE”, 4(4), 265-274.
- Tripathi, P., Singh D.K. Soni, Chaurey R., **Singh, R.M.**, (**2019**). Flood Impact Assessment Due To Possible Barrage Failure Using GIS and Remote Sensing Technique: A Case Study of Tons Barrage Satna Madhya Pradesh. IJRAR 6, 119–125.

**Research manuscript Review:**

- **International Journal of Remote Sensing and Remote Sensing Letters. IJRS/RSL Manuscript ID:** TRES-PAP-2020-0736, **Title:** Evaluation of ICESat-2 land ice surface heights using airborne ATM data in Antarctica, **Authors:** Xiaoyi Shena,b, Chang-Qing Kea,b,c \*, Xuening Yua,b, Yu Caia,b, Yubin Fana,b.

**Project Details:**

- Ground Water Quality on 50,000 Scale under Rajiv Gandhi National Drinking Water Mission: Integrated ground water quality maps on 1:50,000 scale pre & post monsoon quality data of 27 districts is organized, segregated and pre and post monsoon point data layer has been prepared.
- Revenue Land Record Department of Chhattisgarh has entrusted the task of feature extraction of parcel / plot boundary and building outline layers for 10 major urban city of Chhattisgarh using very high resolution aerial photo to Council. CCOST is preparing geo-based Nazul maps for urban areas on 1:500 Scales.
- Geo-referencing and Digitization of Cadastral Sheets: Land Record Department has entrusted the digitization and data base creation work for Cadastral sheets (1:4,000 scale).
- Uses of Geo Informatics in Rural Road Projects under PMGSY in the State of Chhattisgarh, the work are: high resolution satellite image, Toposheet, GPS based field survey points, geo-tagged photographs & OMMAS data.

**Personal Profile:**

- Name : Ram Moorat Singh
- Marital Status : Unmarried
- Father Name : Mr. Ram Pratap Singh
- Gender : Male
- Date of Birth : 25/07/1992
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**References:**

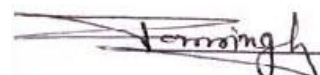
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**Declaration:**

I am Ram Moorat Singh declare that the information furnished above is true to the best of my knowledge.

Date:

Place: Raipur Chhattisgarh India



**RAM MOORAT SINGH**  
**(JRF / Research Scholar)**

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**Research Gate:** [https://www.researchgate.net/profile/Ram\\_Singh132/publications](https://www.researchgate.net/profile/Ram_Singh132/publications)