



Haryana Space Applications Centre (HARSAC)
(Citizen Resources Information Department, Haryana)
CCS Haryana Agricultural University Campus
Hisar - 125 004
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Website: www.harsac.org E-mail: contact@harsac.org

Advt.no. HARSAC/HSR/Recruitment/PP/2023/04

ONLINE APPLICATIONS ARE INVITED

Online Applications are invited from the eligible candidates for various posts on contractual basis under different projects. Detail in this regard may be downloaded from HARSAC website (www.harsac.org). The application form duly complete in all respects along with the self-attested photo copies of testimonials / certificates may be uploaded on the URL of Deenbandhu Sir Chhotu Ram University of Science & Technology (DCRUST), Murthal, (Sonipat) i.e. <https://dcrustconsultancy.in> upto **26.12.2023**. **The portal will be opened w.e.f. 11.12.2023 and closed on 26.12.2023. The online MCQ examination will be held on 06.01.2024 and 07.01.2024.** The appointment in the projects will be purely on contractual basis and co-terminus with the project or earlier. It will not confer any right on the incumbent to any claim, implicit or explicit, on any post.

Director, HARSAC

Table 1: Requirement of manpower in various projects of HARSAC

Sr. No.	Name of Projects
1.	Time Series Mapping of Kharif and Rabi Crops of Haryana – A Geospatial Approach
2.	Yield Estimation System based on Technology under Pradhan Mantri Fasal Bima Yojana
3.	Digitization, Geo-referencing & Superimposition of Layout Plans, Sajra Plans and Development of GIS System for HSVP properties
4.	Geo-Enabled Temporal Change Management and Monitoring System for Developmental Activities in Haryana
5.	DGPS surveying of prospective mining area in parts of Haryana
6.	Satellite Based Monitoring of Crop Residue Burning Events and Burnt area Estimation for Kharif -2023 and Rabi-2024 in Haryana
7.	Creation of GIS Cell in Municipal Corporation (MCF) Faridabad (Phase-II)
8.	Establishment of HARSAC GIS Lab at District Level
9.	Creation & Establishment of GIS Cell in HSPCB, HQ, Panchkula
10.	Creation & Establishment of GIS Cell in PHED, HQ, Panchkula
11.	Drone Imaging & Information Services of Haryana Ltd. Karnal

Table 2: Project-wise consolidated number of posts, emoluments, and tenure duration

Sr. No. of Project	Name of project	Posts (Name) and Remuneration / Salary / Emoluments* (in Rs. Per Month)	No. of Posts
1.	Time Series Mapping of Kharif and Rabi Crops of Haryana – A Geospatial Approach	1.1 Image Analyst (Optical Remote Sensing Data Processing) Salary: Rs. 54,520/- P.M	01
		1.2 Image Analyst (Microwave Remote Sensing Data Processing) Salary: Rs. 54,520/- P.M	01
		1.3 AI /ML (Analyst) Salary:Rs. 54,520/- P.M	01
		1.4 Project Fellow Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE	08
		1.5 Junior Software Engineer (02) Salary: Rs. 31,000/- P.M	02
2.	Yield Estimation System based on Technology under Pradhan Mantri Fasal Bima Yojana	2.1 Geospatial Officer Salary: Rs. 90,000/- P.M	01
		2.2 Geospatial Analyst (Optical Data Processing) Salary: Rs. 75,000/- P.M	01
		2.3 Geospatial Analyst (Microwave/ SAR Data Processing) Salary: Rs. 75,000/- P.M	01
3.	Digitization, Geo-referencing & Superimposition of Layout Plans, Sajra Plans and Development of GIS System for HSVP properties	3.1 AI /ML (Analyst) Salary: Rs. 54,520/- P.M	01
		3.2 Project Fellow Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE	04
4.	Geo-Enabled Temporal Change Management and Monitoring System for Developmental Activities in Haryana (TCP)	4.1 AI/ML (Analyst) Salary: Rs. 54,520/- P.M	03

5.	DGPS surveying of prospective mining area in parts of Haryana	5.1 Project Fellow Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE	01
6.	Satellite Based Monitoring of Crop Residue Burning Events and Burnt area Estimation for Kharif - 2023 and Rabi-2024 in Haryana	6.1 Project Assistant (01 No.) Salary: Rs. 32,000/-	01
7.	GIS Cell in Municipal Corporation Faridabad(MCF) - Phase-II	7.1 Jr. Software Developer IOS Salary: Rs. 44,406/- P.M	01
8.	Establishment of HARSAC GIS Lab at District Level	8.1 Project Fellow Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE	05
9.	Creation & Establishment of GIS Cell in HSPCB, Panchkula	9.1 Project Fellow Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE	01
		9.2 Research Associate-I (RA-I) Salary: Rs. 36,000/- plus HRA as applicable *Revised Salary Rs. 47,000/- P.M plus HRA as applicable.	
10.	Creation & Establishment of GIS Cell in PHED, HQ, Panchkula	10.1 Research Associate-I (RA-I) Salary: Rs. 36,000/- plus HRA as applicable *Revised Salary Rs. 47,000/- P.M plus HRA as applicable.	01
11.	Drone Imaging & Information Services of Haryana Ltd. (For Karnal)	11.1 GIS Technician (Image Processing) Salary: Rs. 31,000/- + HRA as applicable	22
		11.2 GIS Technician (Digitization) Salary: Rs. 31,000/- + HRA as applicable	22
		11.3 Team Lead (Image Processing) Salary: Rs. 54,000/- + HRA as applicable	01
		11.4 Team Lead (Digitization) Salary: Rs. 54,000/- + HRA as applicable	01

Note:

- i. RAs and PFs will be eligible for HRA as per HARSAC norms.
- ii. **Tenure** of all posts will be of **One year** and may be increased or decreased based on the performance/ requirement, except the tenure of posts under project 2 (at Sr. No. 2) and project 11 (at Sr. No. 11) will be of **three years** and up to **31st Aug. 2024** respectively.

Table 3: Project wise detail of posts and Qualification

Sr. No. of Project	Sr. No. of Post (No.)	Qualification
1.	Name of Project: Time Series Mapping of Kharif and Rabi Crops of Haryana – A Geospatial Approach	
	1.1 Image Analyst (Optical Remote Sensing Data Processing) (01 No.) (Salary: Rs. 54,520/- P.M) 1.2 Image Analyst (Microwave Remote Sensing Data Processing) (01 No.) (Salary: Rs. 54,520/- P.M)	Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Geography/ Environmental Science / Forestry / Agronomy / Agriculture /Computer Science with use of Geo-spatial techniques in Ph.D. research work. OR 1 st Class Master’s degree in Remote Sensing/GIS/Geo-Informatics/Geography/ Environmental Science/ Forestry /Agronomy/Agriculture/Computer Science from recognized University with 3 years experience in relevant field. Desirable: <ul style="list-style-type: none"> • Work experience in using optical/ microwave remote sensing data • Work experience in using remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), Agro-meteorology, Meteorology, Statistics
	1.3 AI /ML (Analyst) (01 No.) (Salary: Rs. 54,520/- P.M)	Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Geography/ Environmental Science / Forestry / Urban & Town Planning / Computer Science with use of Geo-spatial techniques in Ph.D. research work. OR 1 st Class Master’s degree in Remote Sensing/GIS/Geo-Informatics/Geography/ Environmental Science / Urban & Town Planning / Computer Science from recognized University with 3 years’ experience in relevant field. Desirable: <ul style="list-style-type: none"> • Work experience in using optical/ microwave remote sensing data • Work experience in using remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), Agro-meteorology, Meteorology, Statistics
	1.4 Project Fellow (08 No.) (Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE)	Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master’s degree in Agriculture/Agro-Meteorology/Forestry/Geography/Geology/Geophysics/Environmental Science/Mathematics/Physics/Water Resources/Urban Planning with P.G. Diploma in Remote Sensing/GIS/ Geo-informatics from a recognized university/ Institute

		<p>*Revised salary shall be paid to the Project Fellow having NET tests - CSIR, UGC NET including lectureship (Assistant Professorship) and GATE or should have cleared any National Level examinations such as DST /DBT /DOS/ DAE/ DRDO/ ICAR /IISC etc.</p>
	<p>1.5 Junior Software Engineer (02 No.) (Salary: Rs. 31,000/- P.M)</p>	<p>Essential Qualification: Graduate or higher degree in Computers/ IT/ Geo-informatics. Freshers can apply.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Relevant experience is preferred. • Android and IOS application experience. • Rich knowledge of Android APIs and Frameworks. • Familiar with Objective-C, Cocoa Touch and swift. • Experience working with iOS frameworks such as Core Data, Core Animation, Core Graphics and CoreText. • Additional skills in SQL, MySQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax. • Knowledge of Java Native Interface (preferred). Sound knowledge on object-oriented programming. Expertise in Git, MySQL, XML, JSON, and Web Service. • GIS programming background (preferred). • Able to write and debug cross-platform code for mobile database. • MySQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax. • API written knowledge will be given added advantage.
<p>2.</p>	<p>Name of Project: Yield Estimation System based on Technology under Pradhan Mantri Fasal Bima Yojana</p>	
	<p>2.1 Geospatial Officer (01 No.) (Salary: Rs. 90,000/- P.M)</p>	<p>Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography with use of Geo-spatial techniques in Ph.D. research work.</p> <p style="text-align: center;">OR</p> <p>st 1 Class Master's degree in Remote Sensing/ GIS/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography from recognized University with 6 years' experience in Remote Sensing and GIS.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical/ microwave remote sensing data • Work experience in using remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), crop mapping etc.
	<p>2.2 Geospatial Analyst (Optical Data Processing) (01 No.) (Salary: Rs. 75,000/- P.M)</p>	<p>Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography with use of Geo-spatial techniques in Ph.D. research work.</p> <p style="text-align: center;">OR</p>

	<p>2.3 Geospatial Analyst (Microwave/ SAR Data Processing) (01 No.) (Salary: Rs. 75,000/- P.M)</p>	<p>st 1 Class Master's degree in Remote Sensing/ GIS/ Geo-Informatics/ Agriculture/ Environmental Science/ Geography from recognized University with 5 years' experience in Remote Sensing and GIS. Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical/ microwave remote sensing data • Work experience in using remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), crop mapping etc.
<p>3.</p>	<p>Name of Project: Digitization, Geo-referencing & Superimposition of Layout Plans, Sajra Plans and Development of GIS System for HSVP properties</p>	<p>Essential Qualification: Doctorate in Remote Sensing & GIS (utilizing Optical/Microwave Remote Sensing)/ Geo-Informatics/ Geography/ Environmental Science / Forestry / Urban & Town Planning / Computer Science with use of Geo-spatial techniques in Ph.D. research work.</p> <p style="text-align: center;">OR</p> <p>st 1 Class Master's degree in Remote Sensing / GIS / Geo-Informatics / Geography/ Environmental Science / Urban & Town Planning / Computer Science from recognized University with 3 years' experience in relevant field.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical/ microwave remote sensing data • Work experience in using remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML), Agro-meteorology, Meteorology, Statistics
	<p>3.2 Project Fellow (04 No.) (Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE)</p>	<p>Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Agriculture/Agro-Meteorology/Forestry/Geography/Geology/Geophysics/Environmental Science/Mathematics/Physics/Water Resources/Urban Planning with P.G. Diploma in Remote Sensing/GIS/ Geo-informatics from a recognized university/ Institute</p> <p>*Revised salary shall be paid to the Project Fellow having NET tests - CSIR, UGC NET including lectureship (Assistant Professorship) and GATE or should have cleared any National Level examinations such as DST /DBT /DOS/ DAE / DRDO /ICAR / IISC etc.</p>
	<p>Name of Project: Geo-Enabled Temporal Change Management and Monitoring System for Developmental Activities in Haryana (TCP)</p>	<p>Essential Qualification: Ph.D. in Urban Planning/ Remote Sensing & GIS (utilizing Optical Remote Sensing)/ Geo-Informatics/ Geography / Environmental Science/ Computer Science with use of Geo-spatial techniques in Ph.D. research work.</p> <p style="text-align: center;">OR</p> <p>1st Class Master's degree in Urban Planning/ Remote Sensing / GIS/ Geo-Informatics/ Geography/Environmental Science/</p>
<p>4.</p>	<p>4.1 AI/ML (Analyst) (03 No.) (Salary: Rs. 54,520/- P.M)</p>	<p>Essential Qualification: Ph.D. in Urban Planning/ Remote Sensing & GIS (utilizing Optical Remote Sensing)/ Geo-Informatics/ Geography / Environmental Science/ Computer Science with use of Geo-spatial techniques in Ph.D. research work.</p> <p style="text-align: center;">OR</p> <p>1st Class Master's degree in Urban Planning/ Remote Sensing / GIS/ Geo-Informatics/ Geography/Environmental Science/</p>

		<p>Computer Science from recognized University with 3 years' experience in relevant field</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML) technique.
5.	Name of Project: DGPS surveying of prospective mining area in parts of Haryana	
	<p>5.1 Project Fellow (01 No.)</p> <p>(Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE)</p>	<p>Essential Qualification:</p> <p>1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Agriculture/Agro-Meteorology/Forestry/Geography/Geology/Geophysics/Environmental Science/Mathematics/Physics/Water Resources/Urban Planning with P.G. Diploma in Remote Sensing/GIS/ Geo-informatics from a recognized university/ Institute</p> <p>*Revised salary shall be paid to the Project Fellow having NET tests - CSIR, UGC NET including lectureship (Assistant Professorship) and GATE or should have cleared any National Level examinations such as DST / DBT / DOS / DAE / DRDO / ICAR / IISC etc.</p>
6.	Satellite Based Monitoring of Crop Residue Burning Events and Burnt area Estimation for Kharif -2023 and Rabi-2024 in Haryana	
	<p>6.1 Project Assistant (01 No.)</p> <p>Rs. 32,000/-</p>	<p>1st Class M. Tech/M.Sc. in Remote Sensing / GIS/ Geo-informatics/ Geomatics from a recognized institute / organization</p>
7.	Name of Project: GIS Cell in Municipal Corporation Faridabad (MCF) - Phase-II	
	<p>7.1 Jr. Software Developer- IOS (01 No.)</p> <p>(Salary: Rs. 44,406/- P.M)</p>	<p>Essential Qualification:</p> <p>Graduate or higher degree in Computers/ IT/ Geo-informatics Minimum 1+ year of experience.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Android and IOS application experience. • Rich knowledge of Android APIs and Frameworks. • Familiar with Objective-C, Cocoa Touch and swift. • Experience working with iOS frameworks such as Core Data, Core Animation, Core Graphics and CoreText. • Additional skills in SQL, MySQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax. • Knowledge of Java Native Interface (preferred). • Sound knowledge on object-oriented programming. Expertise in Git, MySQL, XML, JSON, and Web Service. • GIS programming background (preferred). • Able to write and debug cross-platform code for mobile database. • My SQL, Postgres SQL and other RDBMS. Comfortable with CSS, XHTML, XML, JavaScript, JQuery and Ajax. • API written knowledge will be given added advantage.
8.	Name of Project: Establishment of HARSAC GIS Lab at District Level	
	<p>8.1 Project Fellow (04 No.)</p> <p>(Salary: Rs. 31,000/- +HRA as applicable for NET/GATE)</p>	<p>Essential Qualification:</p> <p>1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR</p>

	qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE)	1st class Master's degree in Agriculture/Agro-Meteorology / Forestry / Geography / Geology /Geophysics / Environmental Science / Mathematics / Physics / Water Resources/Urban Planning with P.G. Diploma in Remote Sensing / GIS / Geo-informatics from a recognized university/ Institute *Revised salary shall be paid to the Project Fellow having NET tests - CSIR, UGC NET including lectureship (Assistant Professorship) and GATE or should have cleared any National Level examinations such as DST /DBT /DOS/ DAE/ DRDO/ ICAR / IISC etc.
9.	Name of Project: Creation & Establishment of GIS Cell in HSPCB, Panchkula	
	9.1 Project Fellow (01 No.) (Salary: Rs. 31,000/- +HRA as applicable for NET/GATE qualified and Rs. 25,000/- +HRA as applicable for Non-NET/GATE)	Essential Qualification: 1st class Master Degree in Remote Sensing/GIS/Geo-informatics OR 1st class Master's degree in Agriculture/Agro-Meteorology/Forestry/Geography/Geology/Geophysics/Environmental Science/Mathematics/Physics/Water Resources/Urban Planning with P.G. Diploma in Remote Sensing/GIS/ Geo-informatics from a recognized university/ Institute *Revised salary shall be paid to the Project Fellow having NET tests - CSIR, UGC NET including lectureship (Assistant Professorship) and GATE or should have cleared any National Level examinations such as DST /DBT /DOS/ DAE/ DRDO/ ICAR /IISC etc.
	9.2 Research Associate-I (RA-I) (01 No.) Rs. 36,000/- plus HRA as applicable *Revised Salary Rs. 47,000/- P.M plus HRA as applicable.	Essential Qualification: Ph.D. in Remote Sensing & GIS (utilizing Optical Remote Sensing)/ Geo-Informatics/ Geography / Environmental Science/ Water Resource / Computer Science with use of Geo-spatial techniques in Ph.D. research work. OR 1st Class Master's degree in Remote Sensing / GIS/ Geo-Informatics/ Geography/ Environmental Science/ Water Resource / Computer Science from recognized University with 3 years' experience in relevant field At least one research paper published in a peer reviewed journal. Desirable: <ul style="list-style-type: none">• Work experience in using optical remote sensing data.• Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML) technique. * Revised Salary shall be paid to the Research Associate -I having the above qualification with at least one research paper in Science Citation Indexed (SCI) Journal.
10.	Name of Project: Creation & Establishment of GIS Cell in PHED, HQ, Panchkula	
	10.1 Research Associate-I (RA-I) (01 No.) Rs. 36,000/- plus HRA as applicable	Essential Qualification: Ph.D. in Urban Planning/ Remote Sensing & GIS (utilizing Optical Remote Sensing)/ Geo-Informatics/ Geography / Environmental Science/ Water Resource / Computer Science with use of Geo-spatial techniques in Ph.D. research work.

<p>*Revised Salary Rs. 47,000/- P.M plus HRA as applicable.</p>	<p style="text-align: center;">OR</p> <p>1st Class Master's degree in Urban Planning/ Remote Sensing / GIS/ Geo-Informatics/ Geography/ Environmental Science/ Water Resource / Computer Science from recognized University with 3 years' experience in relevant field</p> <p>At least one research paper published in a peer reviewed journal.</p> <p>Desirable:</p> <ul style="list-style-type: none"> • Work experience in using optical remote sensing data. • Work experience relevant to Artificial Intelligence/ Machine Learning (AI/ML) technique. <p>* Revised Salary shall be paid to the Research Associate -I having the above qualification with at least one research paper in Science Citation Indexed (SCI) Journal.</p>				
<p>11.</p>	<p>Name of Project: Drone Imaging & Information Services of Haryana Ltd. (For Karnal)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="289 764 669 1514" style="width: 30%; vertical-align: top;"> <p>11.1 GIS Technician (Image Processing) 22 Nos. Salary Rs. 31,000/- + HRA as applicable</p> </td> <td data-bbox="669 764 1458 1514" style="vertical-align: top;"> <p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing / GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/ Urban Planning/ Town and Country Planning/ Environmental Sciences/ B.Tech in Mining.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Knowledge of GPS based instruments, GPS data processing and handling of GPS outputs. ➤ Working experience of 1 year on the latest technology of drone image processing on raw data to generate DSM and DTM and ortho-mosaic, 3D models. ➤ Knowledge of types of UAV data, Geo-tagging of UAV data using PPK/RTK module of survey Grade Drones. ➤ UAV data base management. ➤ UAV data processing in AGISOFT or PIX4D software. ➤ Data management of UAV data outputs in various formats. ➤ Capability to resolve issues in processing of UAV data including point cloud classification. ➤ Understanding of creation of Orthoimage, digital Elevation Model and contours from raw UAV image. ➤ QA/QC of data </td> </tr> <tr> <td data-bbox="289 1514 669 2026" style="vertical-align: top;"> <p>11.2 GIS Technician (Digitization) 22 Nos. Salary Rs. 31,000/- + HRA as applicable</p> </td> <td data-bbox="669 1514 1458 2026" style="vertical-align: top;"> <p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing / GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/ Urban Planning/ Town and Country Planning/ Environmental Sciences/ B.Tech in Mining.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Knowledge and 1 year experience of ARCGIS/QGIS for a feature extraction using Orthorectified images generated from UAV. ➤ UAV Image interpretation. ➤ Understanding of inter-conversion of Raster data and Vector data. ➤ Knowledge of data model structure and layout of maps. ➤ Knowledge of attribute collection and field addition, merging </td> </tr> </table>	<p>11.1 GIS Technician (Image Processing) 22 Nos. Salary Rs. 31,000/- + HRA as applicable</p>	<p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing / GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/ Urban Planning/ Town and Country Planning/ Environmental Sciences/ B.Tech in Mining.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Knowledge of GPS based instruments, GPS data processing and handling of GPS outputs. ➤ Working experience of 1 year on the latest technology of drone image processing on raw data to generate DSM and DTM and ortho-mosaic, 3D models. ➤ Knowledge of types of UAV data, Geo-tagging of UAV data using PPK/RTK module of survey Grade Drones. ➤ UAV data base management. ➤ UAV data processing in AGISOFT or PIX4D software. ➤ Data management of UAV data outputs in various formats. ➤ Capability to resolve issues in processing of UAV data including point cloud classification. ➤ Understanding of creation of Orthoimage, digital Elevation Model and contours from raw UAV image. ➤ QA/QC of data 	<p>11.2 GIS Technician (Digitization) 22 Nos. Salary Rs. 31,000/- + HRA as applicable</p>	<p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing / GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/ Urban Planning/ Town and Country Planning/ Environmental Sciences/ B.Tech in Mining.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Knowledge and 1 year experience of ARCGIS/QGIS for a feature extraction using Orthorectified images generated from UAV. ➤ UAV Image interpretation. ➤ Understanding of inter-conversion of Raster data and Vector data. ➤ Knowledge of data model structure and layout of maps. ➤ Knowledge of attribute collection and field addition, merging
<p>11.1 GIS Technician (Image Processing) 22 Nos. Salary Rs. 31,000/- + HRA as applicable</p>	<p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing / GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/ Urban Planning/ Town and Country Planning/ Environmental Sciences/ B.Tech in Mining.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Knowledge of GPS based instruments, GPS data processing and handling of GPS outputs. ➤ Working experience of 1 year on the latest technology of drone image processing on raw data to generate DSM and DTM and ortho-mosaic, 3D models. ➤ Knowledge of types of UAV data, Geo-tagging of UAV data using PPK/RTK module of survey Grade Drones. ➤ UAV data base management. ➤ UAV data processing in AGISOFT or PIX4D software. ➤ Data management of UAV data outputs in various formats. ➤ Capability to resolve issues in processing of UAV data including point cloud classification. ➤ Understanding of creation of Orthoimage, digital Elevation Model and contours from raw UAV image. ➤ QA/QC of data 				
<p>11.2 GIS Technician (Digitization) 22 Nos. Salary Rs. 31,000/- + HRA as applicable</p>	<p>Essential Qualification: 1st Class Master's degree from a recognized university in Remote Sensing / GIS / Geo-Informatics & Photogrammetry /Geo- spatial Sciences / Geology / Geo Physics / Computer Science / Mathematics/ Urban Planning/ Town and Country Planning/ Environmental Sciences/ B.Tech in Mining.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Knowledge and 1 year experience of ARCGIS/QGIS for a feature extraction using Orthorectified images generated from UAV. ➤ UAV Image interpretation. ➤ Understanding of inter-conversion of Raster data and Vector data. ➤ Knowledge of data model structure and layout of maps. ➤ Knowledge of attribute collection and field addition, merging 				

	<ul style="list-style-type: none"> ➤ of various attribute tables in ARCGIS and QGIS. ➤ Map border generation and PDF creation. ➤ Reporting and maintenance of created data base. ➤ QA/QC of data.
11.3 Team Lead (Image Processing) 01 No. Salary: Rs. 54000/- + HRA as applicable	<p>Essential Qualification: Doctorate or equivalent degree from a recognized university in relevant subject with 2 years of experience</p> <p style="text-align: center;">OR</p> <p>Minimum 3 years of research, teaching, design and development experience after 1st class M.Sc. / MCA/ M.Tech. from a recognized university in Geo-informatics & Photogrammetry/ Geospatial Sciences/ Computer Science/ Mathematics and two years experience after obtaining essential qualifications i.e. Total experience year 3+2= 5.</p> <p>Desirable:</p> <ul style="list-style-type: none"> ➤ Should have more than one year of experience in UAV Image interpretation and feature extraction
11.4 Team Lead (Digitization) 01 No. Salary: Rs. 54000/- + HRA as applicable	<ul style="list-style-type: none"> ➤ Knowledge of GPS/ DGPS based instruments/ CORS survey, data processing and handling of outputs. ➤ Knowledge and working experience on ARCGIS/QGIS etc. (latest technology/ software) of automatic/manual feature extraction using Orthorectified images generated from UAV. ➤ Working experience on the latest technology of drone image processing on raw data to generate DSM, DTM, Contours, ortho-mosaic, 3D models for the different projects like land mapping etc. ➤ Working knowledge of Pix4D, Correlator3D, Site Scan for ArcGIS, Agisoft Photo scan Pro, ERDAS Imagine, ENVI etc. ➤ Data management of UAV data outputs in various formats. ➤ Capability to resolve issues in processing of UAV data including point cloud classification. ➤ Knowledge of data model structure and layout of maps. ➤ Reporting and maintenance of created data base. ➤ QA/QC of data.

Terms and conditions:

1. Candidate will ensure eligibility and other requirements before filling the application form.
2. Incomplete application forms shall not be entertained. Attach all the required self-attested documents with the application form.
3. Number of posts may be increased or decreased during the process of recruitment subject to the needs in the project and funds availability.
4. Tenure of the contractual appointment is mentioned in Table 2. However, tenure may be increased or decreased depending on performance/ requirement.
5. The eligible candidates will be invited by DCRUST, Murthal for attending the Written Test in due course of time.
6. In any discrepancy, decision of the Director, HARSAC will be final and abide by the applicants.
7. List of eligible candidates to be called for skill test/interaction as well as guidelines, syllabus and schedule will be uploaded on HARSAC website (www.harsac.org).
8. Candidates are advised to visit HARSAC website regularly for dates of skill test/interaction after appearing in written test to be conducted by the DCRUST, Murthal.
9. Canvassing in any form by the candidates will be disqualified.
10. Director, HARSAC can cancel this whole recruitment process or for any post/posts without

assigning any reason at any time.

11. *The appointment letters of the selected candidates posts mentioned at Sr. No. 11.1 to 11.4 for Drone Imaging & Information Services of Haryana Ltd., Karnal will be issued by CEO, Drone Imaging & Information Services of Haryana Ltd., Karnal separately.*

Director, HARSAC