

Details of the posts with discipline, Essential qualification, age limit and the job- requirements etc.,

Name of the Post : **Project Scientist – III**
Number of Post(s) : **01 (Un-reserved)**
Maximum age limit : **45 years (Age relaxation as per Govt. of India norms)**
Emoluments : **Rs. 78,000/- + HRA**
(Increment of 5% for every two years of experience subject to performance review)

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Life Science (1 post) (Un-reserved) Post Code: PSIII-LS	M.Sc. in Marine Biology/ Marine Science/ Zoology from a recognized university / Institute with 60%marks in the qualifying degree level with Seven years' experience in Research in the fields of marine biology, open sea cage culture, zooplankton & phytoplankton analysis, sea water quality testing.	Ph. D. in the field of Marine Biology/ Marine Science from recognized University/National laboratory.	<ul style="list-style-type: none"> • Should be capable of Planning and carrying out analysis related to isolation and culture of marine micro & macro algal, breeding, larval rearing of finfish and offshore cage culture. • Physico-chemical analysis of seawater and analysis and culture of phytoplankton/Zooplankton for ballast treatment testing. • Participation in scientific cruise and field studies.

Name of the Post : Project Scientist – II
Number of Post(s) : 7 (Un-reserved)
Maximum age limit : 40 Years(Age relaxation as per Govt. of India norms)
Emoluments : Rs. 67,000/- + HRA

(Increment of 5% for every two years of experience subject to performance review)

Discipline / Reservation	Qualification	Desirable	Job Requirement
<p>Mechanical (3 Posts) (Unreserved) Post Code: <u>PSII-MECH</u></p>	<p>M.E. / M.Tech in Mechanical / Thermal / Production / Marine / Naval Architecture/ Ocean Engg./ Industrial Engineering from a recognized University / Institute with 60% marks in the qualifying degree level</p> <p>With</p> <p>Three years' experience in Research & Development ,Survey / Planning, supervision or training in the relevant field.</p>	<p>MoT [Marine Officers' Training] qualification from a recognized Institute.</p>	<ul style="list-style-type: none"> • Design / Development / Analysis of Mechanical Systems / Sub systems / Offshore, Floating Structures / Underwater components/ Thermal systems / equipments, Design of rotating machinery. • Assembly, Fabrication, Integration, evaluation, testing and commissioning and monitoring of systems / equipments, Design of rotating Machineryand various other components for Desalination and OTEC Plants, and also experimental techniques for underwater components • Management, operation, maintenance and trouble shooting of research vessels; follow-ups, documentation, inspection and monitoring of ship building / dry-dock & afloat repairs process. • Deployment and retrieval of floating and underwater systems, offshore data collection platforms, • Ship cruises for scientific works and planning. • Hands of experience in codes and standards (ASME, HTRI, BIS, etc) and in softwares such as -Autocad, Solidworks, Catia, PRO-E, ANSYS, COMSOL, ANSYS-AQWA, Orcaflex, MATLAB, Simulink, -MARPOL & SOLAS regulations, • Various ship maintenance engineering solutions & Safety at Sea, Knowledge on Assembly & integration of Shipboard machinery, Welding technology & Ship technology, and / or experience of sailing onboard Ships.

Discipline / Reservation	Qualification	Desirable	Job Requirement
<p>Life Science (2 Posts) (Un-reserved)</p> <p>Post Code: PSII-LS</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>M.Sc. in Marine Biology/ Marine Science/ Zoology/ Microbiology from a recognized university/ Institute with 60% marks in the qualifying degree level.</p> <p>With</p> <p>Three years' of research experience in the field of marine biology, marine microbiology, open sea cage culture, zooplankton & phytoplankton analysis, sea water quality testing.</p>	<ul style="list-style-type: none"> • Ph. D. in Marine Biology/ Marine Science/ Zoology/ Microbiology from a recognized university. 	<ul style="list-style-type: none"> • Should be capable of Planning and carrying out analysis related to Isolation and culture of marine micro & macro algal, breeding, Isolation and characterization of marine microbes/ larval rearing of finfish and offshore cage culture. • Physico-chemical analysis of seawater and analysis and culture of phytoplankton/ Zooplankton for ballast treatment testing. • Participation in scientific cruise and field studies.
<p>Physical Oceanography (1 Post) (Un-reserved)</p> <p>Post Code: PSII-PO</p>	<p>Masters Degree in Oceanography / Physical Oceanography / Physics/ Chemical Oceanography/ Ocean Technology / Ocean Science from a recognized University / Institute with 60% marks in the qualifying degree level.</p> <p>With</p> <p>Three years' experience in Research & Development, planning and management in industry and/or the area of work as per the job requirement.</p>	<ul style="list-style-type: none"> • Doctorate in Oceanography / Physical Oceanography/ Physics from a recognized University / Institute. • Relevant computer programming skills • Good knowledge in MATLAB and data processing methodologies 	<ul style="list-style-type: none"> • Oceanographic data collection, data processing, quality control and application of numeric models. Analyzing oceanographic data using tools like MATLAB, Ferret etc. • Participating in cruises for the data collection and maintenance of ocean observation platforms. To interact with port officials/ship agent • Coastal processes modeling, planning, coordinating and managing field data collection programs, hydrodynamic modeling related to ocean /coastal engineering. • Carryout oceanographic survey, and data collection at costal /offshore locations, involve in Laboratory studies, Instrumentation, Site assessment studies/CRZ/GIS. Good knowledge in software tools like Matlab, C, Fortran, etc. • Planning and execution of sea trials and field experiments. • Oceanographic and acoustic data processing & analysis, • Satellite data processing • Scientific / technical report preparation and any other project related documentation • Coastal processes modeling,

Discipline / Reservation	Qualification	Desirable	Job Requirement
			<p>planning, coordinating and managing field data collection programs, seabed engineering investigations, bathymetry and topography survey, hydrodynamic modeling related to ocean/coastal engineering.</p>
<p>ECE / E&I (1 Post) (Un-reserved) Post Code: PSII-ECE/EI</p>	<p>M.E. / M.Tech. in Electronics & Communication / Electronics / Applied Electronics/ VLSI Design/ Embedded system design/ Instrumentation & Control/Communication systems from a recognized university or institute with 60% marks in the qualifying degree level.</p> <p style="text-align: center;">With</p> <p>Three years' experience in Research & Development, Survey / Planning, supervision or training in the relevant field.</p>	<ul style="list-style-type: none"> • Knowledge in Embedded System design • Programming and verification of C/C++/MATLAB/PYTHON/Java • Data acquisition/ SCADA /LabView • Signal and image processing • Satellite communications • Circuit design with ORCAD, Pspice 	<ul style="list-style-type: none"> • Planning, coordination and participating in field studies in coastal regions and scientific cruises. • Installation of systems on-board ships • Calibration and testing of underwater acoustic sensors / accreditation processes

Name of the Post : **Project Scientist – I**
Number of Post(s) : **34** (UR-14, ST-4, SC-5, OBC-8, EWS-3) Three post will be suitable for PwD category
Maximum age limit : **35 (Age relaxation as per Govt. of India norms)**
Emoluments : **Rs. 56,000/- + HRA**
(Increment of 5% for every two years of experience subject to performance review)

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
Mechanical (8 Posts) UR-2 ST-1 SC-4 OBC-1 <u>Post Code:</u> PSI- MECH	B.E. / B.Tech. in Mechanical Engg. from a recognized University / Institute with 60% marks in the qualifying degree level.	M.E. / M.Tech from a recognized University / Institute in any of the following disciplines with 60% marks in the qualifying degree level. Mechanical/Thermal /Production/ Engg. Design/Computer Aided Design/Naval Architecture/ Ocean Engg/Aeronautical Engg.	<ul style="list-style-type: none"> • Design, Analysis and Development of Mechanical Systems / Sub systems for - Components such as moorings, fixed / floating / underwater /offshore structures - thermal systems / components • Fabrication, Assembly, Integration and Testing of Systems / Subsystems / Components in the Lab / Sea / project sites in Mainland / Islands. • To participate in cruises Field survey / deployment / retrieval operations. • To assist in retrieval and deployment of Oceanographic equipment / underwater systems, offshore data collection & participation in ship cruises • Cruise onboard NIOT research vessels/ Monitor & maintenance of ships and to troubleshoot ship board machineries • To supervise the dry-dock works, construction of ships / Maintain and control inventory/Liaise with IRS/DNV. • Working knowledge of <ul style="list-style-type: none"> - FEA software like ANSYS - FEM softwares like Fluent, CFX, Ansys-Mechanical, - 3D-CAD modelling of components and integrated mechanical systems using Inventor, Solidworks, Autocad, ProE, Catia - Ansys Aqua, Orcaflex, Matlab, Simulink MARPOL & SOLAS regulations, Knowledge on Welding technology & Ship technology.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Physical Oceanography (3 Posts)</p> <p>UR-1 SC-1 OBC-1</p> <p>Post Code:</p> <p>PSI-PO</p>	<p>Master's Degree in Oceanography/ Physical Oceanography/ Chemical Oceanography/ Physics/Ocean Technology/ Ocean science from a recognized university with 60% marks in the qualifying degree level.</p>	<ul style="list-style-type: none"> • Ph. D in Oceanography / Physical Oceanography/ Physics / Chemical Oceanography Ocean science / Marine sciences from a recognized University / Institute. • Two years of relevant experience in R&D in industrial or S&T organizations and scientific activities and services • Working Knowledge in MATLAB / C / Fortran and data processing methodologies. • Experience in Python & R Programming, Ferret, and related software. 	<ul style="list-style-type: none"> • Coastal processes modelling, planning, coordinating and managing field data collection programs, hydrodynamic modelling related to ocean /coastal engineering. • Carryout oceanographic survey, and data collection at costal / offshore locations, involve in Laboratory studies, Instrumentation, Site assessment studies / CRZ / GIS related surveys • Physico-chemical analysis of seawater and sediment. EIA studies related to coastal and marine environment. Metal analysis marine waters / sediment. • Field Sample collection and Analysis of nutrients, metals, pesticides, etc. in sea water and sediments. • Experience in handling of Spectrophotometer, AAS/ICPMS, GC • Oceanographic/acoustic Data Processing and Analysis. • Machine learning and Data mining applications • Numerical modelling / Sound Propagation model • Scientific / technical report preparation and any other project related documentation. • Oceanographic data collection, data processing, quality control and application of numeric models. Analysing oceanographic data using tools like MATLAB, Ferret. etc. • Participating in cruises for the data collection and maintenance of ocean observation platforms

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>ECE / E&I (6 Posts)</p> <p>UR-1(Locomotor disability /cerebral palsy category may be suitable for this post), ST-2, OBC-1, EWS-2</p> <p>Post Code:</p> <p>PSI-ECE/EI</p>	<p>B.E/B.Tech. in Electronics & Communication / Instrumentation Engg. from a recognized University / Institute with 60% marks in the qualifying degree level.</p>	<p>M.E./M..Tech. in Electronics & Communication / Electronics / Applied Electronics/ VLSI Design/ Embedded system design/ Instrumentation & Control / Communication systems</p>	<p>The job involves carrying out :</p> <ul style="list-style-type: none"> • Embedded System design • Programming in C/C++/MATLAB/PYTHON/ Java. • SCADA /LabView • Signal processing • Satellite communications • Circuit design with ORCAD • Installation of systems on-board ships • Field studies coastal regions/ Participation in scientific cruises including data buoys.
<p>Life Science (5 Posts)</p> <p>UR-3</p> <p>OBC-2 (one post will be suitable for PwD – Locomotor disability / cerebral palsy)</p> <p>Post Code:</p> <p>PSI-LS</p>	<p>M.Sc. in Marine Biology/ Marine Science/ Zoology from a recognized university / Institute with 60% marks in the qualifying degree level.</p>	<ul style="list-style-type: none"> • Ph.D. Marine Biology / Marine Science/ Zoology from a recognized University / Institute. 	<ul style="list-style-type: none"> • Should be capable of planning and carrying out analysis related to Isolation and culture of marine micro & macro algal, breeding, larval rearing of finfish and offshore cage culture., Cell and Developmental Biology of Marine Organisms / Physiological, Neurological and Behavioral Biology of Marine Organisms/ culture of phytoplankton, zooplankton. • Physico-chemical analysis of seawater and analysis and culture of phytoplankton / zooplankton for ballast treatment testing experiments/ pollutants, Microplastics / Marine Biodiversity, Taxonomy. • SCUBA Diving for coastal sample collection and analysis. • Preparation of projects, reports, technology development and transfer • Participation in scientific cruise and field studies.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Biotechnology (2 Posts)</p> <p>UR-1, OBC-1</p> <p>Post Code:</p> <p>PSI-BIOTECH</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>M.Sc in Biotechnology/ Marine Biotechnology from a recognized university / Institute with 60% marks in the qualifying degree level.</p> <p>or</p> <p>B.E. / B.Tech in Biotechnology from a recognized university / Institute with 60% marks in the qualifying degree level.</p>	<p>Ph.D./M.Tech./ M.E. in Biotechnology//Marine Biotechnology.</p>	<ul style="list-style-type: none"> • Planning and carrying out analysis related marine biology and related marine bioengineering / Marine Biotechnology/Genomics and Proteomics/Metagenomics/Bioinformatics/genetic Engineering /Molecular Biological studies/tissue regeneration, wound healing /gene expression/Bioactive product isolation and characterization /handling of highly sophisticated scientific equipments • Computational and System Biology of Marine Organisms/ Participation in scientific cruise and field studies. • Preparation of projects report, technology development and transfer.
<p>Electrical (1 Post)</p> <p>UR-1</p> <p>Post Code:</p> <p>PSI-EEE</p>	<p>B.E/B.Tech. in Electrical / Electrical & Electronics Engg from a recognized University / Institute with 60% marks in the qualifying degree level.</p>	<p>M.E in Power Electronics /Power system</p>	<p>Working in design, selection and operation of Rotating machines</p> <ul style="list-style-type: none"> • Transformers • SCADA/ Data loggers • MATLAB/Simulink • Protection Coordination (ETAP/SKM) • Programmable logic controllers • Installation and maintenance of on-grid/off-grid renewable electrical systems and desalination plants in islands and mainland • Participation in offshore scientific cruises.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p align="center">Civil (4 Posts)</p> <p>UR-2, ST-1, OBC-1</p> <p><u>Post Code:</u></p> <p>PSI-CIVIL</p>	<p>B.E./B.Tech. in Civil Engg. from a recognized university / Institute with 60% marks in the qualifying degree level.</p>	<ul style="list-style-type: none"> • M.E./M.Tech in Civil in any of the following disciplines: Ocean Engineering/technology/ Geotechnical Engineering/ Structural Engineering /Offshore structures/ Ports and Harbor Engineering/ Water resource Engineering • and relevant Experience in areas given in job requirements • Knowledge in BIS standards for structural works and/or DNV/API standards for offshore component design. • Knowledge in software like STAAD PRO, ANSYS, SACS, ORCAFLEX, MOSES, PLAXIS, AUTOCAD (2D & 3D) 	<ul style="list-style-type: none"> • Coastal processes modeling, hydrodynamic modeling and design of ocean / coastal structures. • Analysis, Design and execution of nearshore/ onshore and offshore Civil / Structural works in mainland/islands. • Analysis and Design of offshore components such as moorings, pipelines and fixed/floating structures. • Analysis and design of foundations for onshore and offshore structures,. • Field surveys /deployment / retrieval operations at coastal / offshore locations, Laboratory analysis, Instrumentation, Insitu and field onshore and offshore geotechnical investigations • Planning/Preparation of construction schedules, drawings, BOQ and estimations. • Site assessment studies and studies related to CRZ/EIA and use of GIS tools • Working on software like STAAD PRO, ANSYS, SACS, ORCAFLEX, MOSES, PLAXIS, AUTOCAD (2D & 3D) • Use of DNV / API standards for offshore component design • Use of software tools like Matlab, C, Fortran, etc • Work in various coastal sites including islands of Lakshadweep and Andamans.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Microbiology / Marine Microbiology (01-Post)</p> <p>OBC-1</p> <p>Post Code:</p> <p>PSI-MB</p>	<p>M.Sc. / B.Tech. in Microbiology / Marine Microbiology from a recognized university / Institute with 60% marks in the qualifying degree level.</p>	<p>Ph. D. /M.Tech. in the field of Marine Microbiology from a recognized university.</p>	<ul style="list-style-type: none"> • Should be capable of planning and carrying out analysis related marine microbiology, marine microbial ecology and related marine microbial engineering, • planning and carrying out Isolation, culture, characterization, molecular and genomic analysis of marine microbes// Metagenomics / Bioinformatics / Bioactive product Isolation and characterization. • Handling of highly sophisticated scientific equipments • Participation in scientific cruise and field studies/ Interpretation of results. • Preparation of projects, reports, technology development and transfer
<p>Bioinformatics (01-Post)</p> <p>Unreserved-1(Locomotor disability /cerebral palsy category may be suitable for this post)</p> <p>Post Code:</p> <p>PSI-BI</p>	<p>M.Sc/ B.Tech in Bioinformatics from a recognized University / National laboratories with 60% marks in the qualifying degree level</p>	<p>Ph. D. /M.Tech in the field of Bioinformatics from a recognized university</p>	<ul style="list-style-type: none"> • Should be capable of planning and carrying out genomic and metagenomic analysis of marine microbes/development of bioinformatics pipelines • Participation in scientific cruise and field studies /Interpretation of results /compilation of reports.
<p>Chemistry (02-Post)</p> <p>UR-1, EWS-1</p> <p>Post Code:</p> <p>PSI-CHEM</p>	<p>Master's Degree in Chemistry/Medicinal Chemistry/Biochemistry from a recognized University / Institute with 60% marks in the qualifying degree level.</p> <p>Or</p> <p>B.E./B.Tech Bio-medical engineeringfrom a recognized University / Institute with 60% marks in the qualifying degree level.</p>	<p>Ph. D. in the field Chemistry / Medicinal Chemistry/Biomedical Engineering</p>	<ul style="list-style-type: none"> • Expertise in bioactive compound extraction, compound purification from marine flora and fauna. • Biochemistry of Marine Organisms / Synthetic Organic and Medicinal Chemical compound / Sound Knowledge on NMR, LCMS, FT-IR, chromatography (HPLC, GC-MS) • Participation in scientific oceanographic cruise and field studies. • Assist scientists in preparation of projects reports, capacity building development programme, technology development and transfer.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Coastal Management/ Remote Sensing & GIS (01-Post)</p> <p>UR-1</p> <p><u>Post Code:</u></p> <p>PSI-OT/CM</p>	<p>Post Graduate Degree in Ocean Science and Technology /Coastal Management/Remote sensing and GIS from a recognized University / Institute with 60% marks in the qualifying degree level.</p>	<p>Ph. D. /M.TechOcean Science and Technology /Coastal Management/Remote sensing and GIS.</p>	<ul style="list-style-type: none"> • Should be capable of Planning and carrying out analysis related Spatial data preparation using Remote sensing and GIS in marine sciences. • Preparation of marine habitat mapping studies. • Remote sensing study related marine sciences /Land Use prediction models/Conducting Ground Truth surveys/ Hydrodynamic models / Climate change studies. • Working experience in Geo-graphics Information System (GIS) software / Remote sensing / shoreline changes. • Participation in scientific cruise • Preparation of projects Technical / Scientificreports of technology development

Name of the Post : **Project Scientific Assistant**
No. of Post(s) : **45**(UR-23, ST-5, SC-5, OBC-8, EWS-4)Three post will be suitable for PwD category.
Maximum age limit : **50 (Age relaxation as per Govt. of India norms)**
Emoluments : **Rs. 20,000/- + HRA**
(Increment of 15% for 3 years of experience with maximum ceiling of 4 such revision, i.e., up to 12 years of experience subject to performance review)

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Mechanical (3 Posts)</p> <p>UR-2, ST-1</p> <p>Post Code:</p> <p>PSA-MECH</p>	<p>Three years Diploma in Mechanical / Mechatronics / Automobile Engineering from a recognized Institute with 60% marks.</p>	<ul style="list-style-type: none"> • Any higher qualification in the relevant discipline/field. • Knowledge in software like AUTOCAD (2D & 3D) is desirable. • Experience in assembly, integration, testing, and field operations, Maintenance of mechanical systems at R&D Institute, Industry and /or the area of work as per the job requirement. 	<ul style="list-style-type: none"> • Erection and commissioning of equipments / machineries in project sites at Islands / Mainland. • Site supervision including reading specifications, drawings, supervising the Manufacturing / Fabrication / Assembly / Integration and testing activity in shop floor, ensuring quality, co-ordination between various inspection agencies and contractors. • Operation and maintenance of power / process plants at Islands / Mainland. • Preparation of mechanical 2D and 3D Drawings / Modeling using Autocad / Inventor / Solid works / Catia / Pro E etc. • Maintenance of EOT crane, Positioning systems, • Fabrication / Assembly / Integration and testing of mechanical sub systems for underwater applications, • To assist in retrieval and deployment of Oceanographic equipment, offshore data collection and participation in ship cruises

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Life Sciences (11Posts)</p> <p>UR-7, ST-1,</p> <p>SC-1(post will be suitable for PwD – Locomotor disability /cerebral palsy category/ Hearing impairment)</p> <p>OBC-2</p> <p><u>Post Code:</u></p> <p>PSA-LS</p> <p>(Two posts at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>Bachelor’s degree in Zoology / Botany /Biochemistry from a recognized University / Institute with 60% marks.</p>	<ul style="list-style-type: none"> • Master’s degree in Marine Biology/ Marine Science/ Marine Biotechnology / Botany /Zoology / Biochemistry from a recognized University • Two years experience (after obtaining essential educational qualification) in Research and Development in the area listed in job requirement. 	<ul style="list-style-type: none"> • Capable of carrying out preparatory works in the laboratory for research and development pertaining to marine micro & macro algal / offshore cage culture / physicochemical / biological analysis of seawater. • Participation in scientific cruise / SCUBA diving and field work.
<p>Bio-Technology/ Micro Biology (7 posts)</p> <p>UR-3, ST-1, SC-1, OBC-2</p> <p><u>Post code:</u></p> <p>PSA-BIOTECH</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>Bachelor’s degree in Microbiology/ Biotechnology from a recognized University/Board with 60% marks.</p>	<ul style="list-style-type: none"> • Master’s degree in Marine Microbiology / Biotechnology / Bioinformatics from a recognized University /National laboratories. • Two years experience (after obtaining essential educational qualification) in Govt. Dept. / Organization/ Autonomous Body / Research and Development in the area listed in job requirement. 	<ul style="list-style-type: none"> • Capable of carrying out preparatory works in the laboratory for research and development pertaining to marine genome/ metagenome analysis • Development and maintenance of bioinformatics tools and database. • Participation in scientific cruises and field studies.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Bioinformatics (3 Posts)</p> <p>UR-2, OBC-1(suitable for PwD – Hearing Impairment category/ Locomotor disability /cerebral palsy category)</p> <p><u>Post Code:</u></p> <p>PSA-BI</p>	<p>Bachelor’s degree in Bioinformatics from a recognized university / Institute with 60% marks in the qualifying degree level</p>	<ul style="list-style-type: none"> • Master’s degree in Bioinformatics from a recognized university / • Two years experience (after obtaining essential educational qualification) in Govt. Dept. / Organization/ Autonomous Body / Research and Development in the area listed in job requirement. 	<ul style="list-style-type: none"> • Should be capable of carrying out preparatory works in the laboratory for research and development pertaining to Bioinformatics analysis of marine genomic and metagenomic data/ Development of Bioinformatics tools. • Participation in scientific cruise and field studies.
<p>ECE / E&I (5 Posts)</p> <p>UR-3, SC-1, EWS-1</p> <p><u>Post Code:</u></p> <p>PSA-ECE/EI</p>	<p>Three years Diploma in Electronics & Communication/ Electronics & Instrumentation engineering from a recognized Institute with 60% marks.</p>	<p>Experience of 2 years in R&D, Industry and/or higher qualification as per the job requirement.</p>	<ul style="list-style-type: none"> • Assembly, Integration and testing of Marine Electronics Systems/sub systems, data acquisition systems • Underwater systems, deployment / retrieval operations, calibration, tests & trials of electronics subsea system. • Participation in cruises for the maintenance of ocean observation platforms. Working with Data/Tsunami buoy systems, Data Acquisition & Control and Telemetry System for offshore data platforms. Handling Meteorological and Oceanographic sensors. • Installation of instruments and Calibration, and Implementation of Data acquisition, Instrumentation & control systems for Island based desalination plants • Software skills in ORCAD/PADS/LabView/ PLC • Participation in offshore scientific cruises.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Electrical (5 posts)</p> <p>UR-2, ST-1, OBC-1, EWS-1</p> <p>Post Code: PSA-EEE</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>Three years Diploma in Electrical Engineering / Electrical & Electronics engineering from a recognized Institute with 60% marks.</p>	<p>Experience of 2 years in R&D, Industry and/or higher qualification as per the job requirement.</p>	<ul style="list-style-type: none"> • Installation and maintenance of on-grid/off-grid renewable electrical systems and desalination plants in islands and mainland. • Operation and maintenance of Genset, Transformer, rotating machine and drives. • Testing of electrical and acoustical parameters for underwater acoustic sensors, Laboratory accreditation processes, Monitoring laboratory environmental parameters and maintenance of records etc. • Handling of electrical /electronic systems in laboratory • Software skills in Electrical CAD , ORCAD PSpice, GNU Octave. • Participation in offshore scientific cruises.
<p>Chemistry/ Physics (4 Posts)</p> <p>UR-2, ST-1, OBC-1</p> <p>Post Code: PSA-CHEM/PHY</p>	<p>Bachelor's degree in chemistry/Physics from a recognized University / Institute with 60% marks.</p>	<ul style="list-style-type: none"> • Master's degree in chemistry/Physics from a recognized University / Institute • Two years experience (after obtaining essential educational qualification) in Research and Development in the area listed in job requirement 	<ul style="list-style-type: none"> • Capable of carrying out preparatory works in the laboratory for research and development pertaining to purification and Characterization of Marine natural products/ purification of marine bioactive compound/ estimation of water quality parameter. • Analysis of sea water, marine chemistry, Physics & macro algal/ water chemistry/Physicochemical / Nanotechnology / Nanophysics. • Participation in scientific cruise and field work.

Discipline / Reservation	Essential Qualification	Desirable	Job Requirement
<p>Computer Science (2 Posts)</p> <p>UR-1 (suitable for PwD –Hearing Impairment/ category/ Locomotor disability /cerebral palsy category)</p> <p>EWS-1</p> <p>Post Code: PSA-CS</p>	<p>B.Sc Computer Science / BCA / Three years Diploma in Computer Science from a recognized University/ Institute with 60% marks.</p>	<ul style="list-style-type: none"> • M.Sc Computer Science/ M.Sc I.T/ MCA/B.E(CSE) • Experience in data acquisition and control systems/ remote control sensors and instrumentation/ software testing and R&D. 	<ul style="list-style-type: none"> • Knowledge in Programming, maintenance of IT infrastructure operations and Data base Management and, Application Software development • Knowledge in data plotting, scientific software (eg Python/Matlab/Ferret/ Origin) • Middleware development, Scientific Data Plotting • Knowledge in Microsoft Technologies platform, SQL, MySQL, Unix/Linux, Core Java, VBA, RDBMS, etc. • Software development, maintenance, fixing of errors, generating reports, and end user support based on bugs reported • writing program codes, review & improvement of existing softwares, backup and maintenance; testing the product in controlled, real situations before going live; preparation of training manuals for users • Should be capable of carrying out preparatory works in the laboratory for research and development pertaining to marine genome database management/ Workstation maintainers / maintenance of in-house project of AMSOB database/ Coordination with Website developer and updating of website and monitoring.
<p>Civil (5 Posts)</p> <p>UR-1, SC-2, OBC-1, EWS-1</p> <p>Post Code: PSA-CIVIL-9</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>Three years Diploma in Civil Engineering from a recognized Institute with 60% marks.</p>	<ul style="list-style-type: none"> • Any higher qualification in the relevant discipline/field. • Knowledge in AUTOCAD (2D & 3D) • Experience in oil and gas / offshore industries or R&D in Ocean Engineering / Technology. <p>NOTE: Involves work in various project sites at</p>	<ul style="list-style-type: none"> • Knowledge in site execution including preparation of estimates, specifications and drawings as per CPWD codal provisions, supervising the construction/fabrication activities, quality control/assurance, recording measurements in M-book and bill preparation, co-ordination between various agencies and contractors. • Carrying out oceanographic survey including bathymetry studies, data collection, field installation and retrieval operations in coastal / offshore locations. • Operation, maintenance and

		Islands/Mainland.	<p>inspection of scientific equipments and to participate in the scientific cruises, dry dock works and construction of ships / maintain and control inventory.</p> <ul style="list-style-type: none"> • Assist laboratory operations / instrument maintenance, diving skill.
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Name of the Post : **Project Technician**
No. of Post(s) : **19 (UR-9, ST-2, SC-1, OBC-6, EWS-1)**
Emoluments : **Rs. 20,000/- + HRA**
Maximum age limit : **50(Age relaxation as per Govt. of India norms)**

Discipline/Reservation	Essential Qualification	Desirable	Job Requirement
<p>Fitter (5 Posts)</p> <p>UR-2, ST-1, OBC-2</p> <p>Post Code: PT-FITTER</p>	<p>10th standard with two years ITI Tradesman Course in Fitter approved by National Council for Vocational Training or its equivalent from recognized Institutions.</p>	<p>Basic reading of Engineering drawing, Basic knowledge in manufacturing tools and process.</p> <p>Two years experience in assembly of mechanical systems</p>	<ul style="list-style-type: none"> • Candidate needs to work at various project sites at Islands/Mainland. • Dismantling, Repairing and reassembling equipment such as Rotating machinery systems, plant equipments and assisting field testing operation of varies mechanical systems and sub systems. • Participating in cruises for the deployment & retrieval operations
<p>Electrical (6 Posts)</p> <p>UR-2, ST-1, SC-1, OBC-1, EWS-1</p> <p>Post Code: PT-ELECTRICAL</p>	<p>10th standard with two years ITI Tradesman Course in Electrician approved by National Council for Vocational Training or its equivalent from a recognized Institutions.</p>	<p>2 years work experience in Operation / maintenance of electrical equipments, Wiring of control panels, Industrial wiring, cable termination, assembly and integration of electrical system, handling of low and high voltage equipment</p>	<ul style="list-style-type: none"> • Candidate needs to work at various project sites at Islands/Mainland. • Assembly and Integration of the electrical system, Wiring of control panels, Industrial wiring, cable termination, low and high voltage system erection. Maintenance of Electrical installations, Generators, Transformers, etc., onshore, on board ships and Offshore installations and handlings.

<p>Electronics (5 Posts)</p> <p>UR-3, OBC-2,</p> <p>(Post Code: PT- ELECTRONICS</p>	<p>10th standard with two years ITI Tradesman Course in Electronics / Instrumentation approved by National Council for Vocational Training or its equivalent from a recognized Institutions.</p>	<p>Two years work experience in Operation /maintenance of electronics equipments. Wiring, assembly and integration of control panels and circuit boards. Instrumentation cable glanding, termination. Calibration and erection of sensors. Handling of instrumentation and control, data acquisition systems.</p>	<ul style="list-style-type: none"> • Candidate needs to work at various project sites at Islands/Mainland. • Industrial panel wiring and Interfacing, PCB soldering and Assembly, Handling of electronic instruments, Assembly, testing and calibration of instruments/Sensors, Interfacing and panel wiring, Installations of electronic systems on board ships, Offshore installations and handlings
Discipline/Reservation	Essential Qualification	Desirable	Job Requirement
<p>Air Conditioning</p> <p>(3 Posts)</p> <p>UR-2,OBC-1</p> <p>Post Code: PT-AC</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>10th standard with two years ITI Tradesman Course in Refrigeration / Air Conditioning approved by National Council for Vocational Training or its equivalent from recognize Institutions.</p>	<p>Two years Experience in handling Industrial Air condition systems</p>	<ul style="list-style-type: none"> • Candidate needs to work at various project sites at Islands/Mainland. • Installation, operation and maintenance of refrigeration and air conditioning systems. Reading and understanding of engineering drawings, symbols and support scientist in scientific cruises operation and field work.

Name of the Post : **Project Field Assistant**
No. of Post(s) : **10 (UR-6, SC-1, OBC-2, EWS-1)**
Emoluments : **Rs. 20,000/- + HRA**
Maximum age limit : **50 (Age relaxation as per Govt. of India norms)**

Essential Qualification	Desirable	Job Requirement
<p>Must have passed Plus-Two(+2) Examination with Science (Physics/ Chemistry/ Botany & Zoology) or (Physics/ Chemistry / Biology & Maths) streams from a recognized state board/CBSE</p> <p>Post Code: PFA</p> <p>(Two posts at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<ul style="list-style-type: none"> Working experience in coastal and Marine filed surveys. Working knowledge in lab instruments/operation /maintenance of lab equipments. Assist in data entry To assist the scientists in field and laboratory activity in R&D institution. 	<ul style="list-style-type: none"> Candidates need to work at various project sites at Islands/Mainland. Maintenance of laboratory /field equipments/onshore on board ships and offshore installation and handling.

Name of the Post : **Project Junior Assistant**
No. of Post(s) : **12(UR-5, ST-2. SC-3, OBC-1, EWS-1)**
Emoluments : **Rs. 20,000/- + HRA**
Maximum age limit : **50 (Age relaxation as per Govt. of India norms)**

Essential Qualification	Desirable	Job Requirement
<p>Any degree from a recognized University</p> <p>Post Code: PJA</p> <p>(One UR category post will be suitable for PwD – Locomotor disability /cerebral palsy / Hearing impairment)</p>	<ul style="list-style-type: none"> Working experience of 2 years in organization of repute. Working knowledge of Computer, stenography and typing. 	<ul style="list-style-type: none"> Knowledge in Office and accounting procedures, word processing and data entry Secretarial Assistance in carrying out the day to day functions of the Institute in Finance and Accounts, Stores and Purchase and Establishment Sections and Scientific groups.

Name of the Post : **Research Associate (RA)**
No. of Post(s) : **6 (UR-4,SC-1, OBC-1)**
Emoluments : **Rs. 58,000/- + HRA**
Maximum age limit : **35**

Discipline / Reservation	Essential Qualification	Job Requirement
<p>Oceanography / Physical Oceanography / Physics (1 Post) (Unreserved)</p> <p>Post Code RA-PO</p>	<p>Doctoral Degree in Oceanography/ Physical Oceanography/Physics /Oceanic Sciences</p> <p>Or</p> <p>M.Tech- Ocean Technology with three years R&D experience research, teaching, design & development after acquiring M.Tech and having at least one publication in SCI Journal</p>	<p>Oceanographic / acoustic Data processing and analysis ;</p> <ul style="list-style-type: none"> • Working knowledge in Softwares such as Ferret, GRADS, ODV etc. • Programming Languages: MATLAB, Fortan, C C++. • Numerical modeling of oceanographic processes/ Sound propagation modeling • Participation in scientific cruise and field studies.
<p>LIFE SCIENCE (5 Post) (UR-3, SC-1, OBC-1)</p> <p>Post Code RA-LS</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<p>Doctoral Degree in Microbiology/Biotechnology/Bioinformatics</p> <p>Or</p> <p>M. Tech in Biotechnology / Bioinformatics from a recognized University / National laboratories with three years R&D experience research, teaching, design & development after acquiring M.Tech and having at least one publication in SCI journal.</p>	<ul style="list-style-type: none"> • Research / analysis works in the laboratory in characterization and Bioprospection of marine microbes/Genomic and metagenomic analysis of marine samples. • Development of Bioinformatics tools. • Participation in scientific cruise and field studies.

Name of the Post : **Senior Research Fellow (SRF)**
No. of Post(s) : **13 (UR-6, ST-1, SC-2, OBC-3, EWS-1)**
Emoluments : **Rs. 42,000/- + HRA**
Maximum age limit : **32**

Discipline / Reservation	Essential Qualification	Job Requirement
<p>Oceanography/ Physical Oceanography</p> <p>(4 Posts)</p> <p>(UR-2, SC-1, OBC-1)</p> <p>Post Code : SRF-PO</p>	<ul style="list-style-type: none"> • M.Sc. in Oceanography / Physical oceanography / Atmospheric science / Meteorology / Mathematics from a recognized university / Institute with 60% of Marks <p style="text-align: center;">(OR)</p> <ul style="list-style-type: none"> • B.E./B.Tech in Ocean Technology from a recognized university / Institute with 60% of Marks. • And having cleared any one of the following examination. <ol style="list-style-type: none"> a. CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b. National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, CMR, IIT, IISc, IISER, etc., • With two years of research experience. 	<ul style="list-style-type: none"> • Oceanographic data collection, data processing and quality control. Analyzing meteorological and oceanographic data. Field observation activities. Preferable programming language (e.g. Python, Matlab, Ferret) • Experience in Oceanographic data analysis, Time series analysis, • Software Ferret, GRADS, ODV etc. • Programming Languages: MATLAB. • Participation in scientific cruise and field studies.
<p>Life Science</p> <p>(9 Posts)</p> <p>(UR-4, ST-1, SC-1, OBC-2, EWS-1)</p> <p>Post Code : SRF-LS</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<ul style="list-style-type: none"> • M.Sc. in Marine Biology/Marine Science /Microbiology/Biotechnology/Bioinformatics from a recognized university / Institute with 60% with two years of research experience <p style="text-align: center;">(OR)</p> <ul style="list-style-type: none"> • B.E./B.Tech in Biotechnology/ Bioinformatics from a recognized university / Institute with 60% marks • Having cleared any one of the following examination. <ol style="list-style-type: none"> a. CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b. National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, CMR, IIT, IISc, IISER, etc., • With two years of research experience 	<ul style="list-style-type: none"> • Research and analysis works in the laboratory in marine microbes. • Algae isolation and culture Characterization and Bioprospection of marine microbes /Genomic and metagenomic analysis of marine samples / Marine finfish breeding, larval rearing and cage culture / water quality parameters measurements. • Participation in scientific cruise and field studies.

Name of the Post : **Junior Research Fellow (JRF)**
No. of Post(s) : **5 (UR-4, OBC-1)**
Emoluments : **Rs.37,000/- + HRA**
Maximum age limit : **28**

Discipline / Reservation	Essential Qualification	Job Requirement
<p style="text-align: center;">LIFE SCIENCES</p> <p style="text-align: center;">(5 Posts)</p> <p>(UR-4, OBC-1)</p> <p style="text-align: center;"><u>Post Code</u> JRF-LS</p> <p>(One post at ACOSTI, SRI VIJAYA PURAM ISLAND)</p>	<ul style="list-style-type: none"> • M.Sc. in Marine Biology/Marine Science /Microbiology /Biotechnology /Bioinformatics from a recognized university / Institute with 60% marks. <li style="text-align: center;">(OR) • B.E./ B.Tech. in Biotechnology / Bioinformatics from a recognized university / Institute with 60% marks. • Having cleared any one of the following examination. <ol style="list-style-type: none"> a) CSIR-UGC NET including lectureship (Assistant Professorship) and GATE b) National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc., 	<ul style="list-style-type: none"> • Research and analysis works in the laboratory in marine microbes. • Algae isolation and culture Characterization and Bioprospection of marine microbes /Genomic and metagenomic analysis of marine samples / Marine finfish breeding, larval rearing and cage culture / water quality parameters measurements. • Participation in scientific cruise and field studies.