



नौवहन महानिदेशालय, मुंबई

DIRECTORATE GENERAL OF SHIPPING, MUMBAI

Ref. – FAAPP-MTC-1/19102024, dtd. 19/10/24, ver 1.0

QUALITY & COST BASED SELECTION (QCBS)

(Using E-Procurement mode on Central Public Procurement Portal)

Request for Proposals (RFP)

for

**Selection of System Integrator for Complete ERP development of
Seafarer's Welfare Fund Society, Autonomous Society,
administratively controlled by the Ministry of Ports, Shipping
and Waterways, Govt. of India.**

Tender Ref. No.: SWFS-ERP/2024/29823

Date of Issue: 26/03/2025

ISSUING AUTHORITY:

DIRECTORATE GENERAL OF SHIPPING, MUMBAI

Postal Address: 9th Floor Beta Building, I-Think Techno Campus, Kanjurmarg (East),
Mumbai - 400 042 (India)

E-Mail: dgship-dgs[at]nic[dot]in

Tel. No.: 91-22-25752040/41/42/43/45

(From 9:30 A.M. to 6:00 P.M.)

Key information at a glance

SN	Item	Description
1	Tender Ref. No.	SWFS-ERP/2024/29823
2	Tender Title	Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Autonomous Society, administratively controlled by the Ministry of Ports, Shipping and Waterways, Govt. of India.
3	Cost of Request for Proposals	Request for Proposals can be downloaded free of cost from the following websites: https://eprocure.gov.in/epublish/app https://www.dgshipping.gov.in/Content/TenderNotices.aspx
4	Date of Tender Publishing	26/03/2025; 12:00 PM
5	Date and time till which physical visits prospective Bidders to DGS premises are permissible	
6	Date and time of Pre-Proposal Meeting	09/04/2025; 02:00 PM
7	Start Date of submission of clarification	27/03/2025; 10:00 AM
8	End Date of submission of clarification	10/04/2025; 05:00 PM
9	Start date and time for Submission of Proposals (Technical + Financial Proposals)	11/04/2025; 05:00 PM
10	Last date and time for Submission of Proposals (Technical + Financial Proposals)	28/04/2025; 03:00 PM
11	Date and time of opening of Technical Proposals	29/04/2025; 03:00 PM
12	Help Desk No. (For E -Procurement)	E-Mail: dgship-dgs[at]nic[dot]in Tel. No.: 91-22-25752040/41/42/43/45 Primary Custodian number: 9702261155 eProcurement Helpdesk no.s (New Delhi) 0120-4200462, 0120-4001002, 0120-4001005
13	Link for accessing training schedule	https://eprocure.gov.in/cppp/trainingdisp

	regarding use of e-procurement portal by Bidders may be found at:	
14	Authority to be contacted in case of any clarification / request for entry permission for physical visit	Name: - Capt. Dr. Daniel J Joseph Designation: Member Secretary, SWFS, Deputy Director General Email: - danieljohn-dgs@gov.in Landline: 8667350802

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Section 1 – Letter of Invitation

Proposal Reference No.: SWFS-ERP/2024/29823

Date: 26/03/2025

Tender Title: for Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Govt. of India

1. The DGS invites online Proposals from eligible Bidders for Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Govt. of India.
2. More details pertaining to the scope of work may be seen under the Terms of Reference (Section V).
3. The process of Quality & Cost Based Selection (QCBS) shall be followed for selection of suitable Bidder. The Bidding process shall be conducted in an online mode on the Central Public Procurement Portal (CPPP) which is publicly accessible using the following web address: <https://eprocure.gov.in/eprocure/app>. Bidders can download the Request for Proposals free of cost from this portal.
4. Interested Bidders must register on the e-procurement portal and upload their technical and financial proposals separately within the stipulated time and date i.e. 28/04/2025; 03:00 PM
5. Detailed instructions regarding online submission of proposals may be seen under Annexure I.
6. The Bidder is solely responsible for timely uploading of Proposals on the e-procurement portal. DGS shall not be liable for resolving any queries / issues raised on the day of Proposal submission.
7. Technical Proposals shall be opened online on 29/04/2025; 03:00 PM
8. Bidders can see the tender opening status by logging on to the e-procurement portal using their registered IDs.
9. Financial Proposals of only technically qualified Bidders shall be opened at a date which shall be pre-disclosed on the e-procurement portal.
10. DGS reserves the right to accept or reject any or all of the Proposals at any time during the Bidding process.

Deputy Director General

Section 2 – Instructions to Bidders (ITB)

1. General

1.1 Introduction

- a) This Section provides the relevant information as well as instructions to assist prospective Bidders in preparation and submission of Proposals. It also includes the mode and procedure to be adopted by the DGS (hereinafter referred to as the 'Client') for receipt and opening as well as scrutiny and evaluation of Proposals and subsequent placement of award of contract.
- b) The Client named in the **Data Sheet** will select an eligible consulting firm / organization (the Bidder), in accordance with the method of selection specified in the **Data Sheet**.
- c) Before preparing the Proposal and submitting the same to the Client, the Bidder should read and examine all the terms & conditions, instructions etc. contained in the Request for Proposals. Failure to provide required information or to comply with the instructions incorporated in this Request for Proposals may result in rejection of Proposals submitted by Bidders.
- d) The successful Bidder will be expected to complete the Services by the Intended Completion Date as provided in the **Data Sheet** and communicated in the services contract.

1.2 Language of Proposals

Proposal submitted by the Bidder and all subsequent correspondences and documents relating to the Proposal exchanged between the Bidder and the Client, shall be written in English language. However, the language of any printed literature furnished by the Bidder in connection with its Proposal may be written in any other language, provided the same is accompanied by a self-certified English translation and, for purposes of interpretation of the Proposal, the English translation shall prevail.

1.3 Code of Integrity

- a) The Client and all officers or employees of the Client, whether involved in the procurement process or otherwise, or Bidders and their representatives or employees participating in a procurement process or other persons involved, directly or indirectly in any way in a procurement process shall maintain an unimpeachable standard of integrity in accordance with the code of integrity prescribed under GFR 175.
- b) In case of breach of the code of integrity by a Bidder or a prospective Bidder, the DGS, after giving a reasonable opportunity of being heard, may take appropriate measures including –
 - i. exclusion of the Bidder from the procurement process.
 - ii. calling off of pre-contract negotiations and forfeiture or encashment of Proposal security;
 - iii. forfeiture or encashment of any other security or bond relating to procurement;
 - iv. recovery of payments made by the Client along with interest thereon at bank rate;
 - v. cancellation of the relevant contract and recovery of compensation for loss incurred by the Client;
 - vi. debarment of the Bidder from participation in any future procurements of any Client for a period of up to three years.

1.4 Eligibility

- a) This Request for Proposals is open to all Bidders eligible as described in the instructions to Bidders. DGS employees, Committee members, Board members and their relatives (Spouse or Children) are not eligible to participate in the tender. Bidders involved in corrupt and fraudulent practices or debarred from participating in Public Procurement by any state

government or any procuring entity of the central government shall not be eligible.

- b) The specific eligibility conditions shall be as prescribed under the **Data Sheet**.
- c) Bidders shall submit a declaration regarding its eligibility vis-à-vis all the criteria mentioned under the instructions to Bidders and the Proposal data sheet.

1.5 Online Proposal Submission Process

The e-tender is available on CPPP portal, <https://eprocure.gov.in/eprocure/app> as mentioned in the tender. The tenders duly filled in should be uploaded and submitted online on or before the end date of submission. More details regarding the online Proposal submission process may be found under Annexure-II attached to this Request for Proposals.

2. Request for Proposals

2.1 Contents of Request for Proposals

- a) The Request for Proposals include the following Sections, which should be read in conjunction with any amendment issued in accordance with ITB.
 - Section 1 Invitation for Bidders
 - Section 2 Instructions to Bidders (ITB)
 - Section 3 Data Sheet
 - Section 4 Evaluation Criteria
 - Section 5 Terms of Reference
 - Section 6 Service Level Agreement
 - Section 7 Bidding Forms
 - Section 8 General Conditions of Contract (GCC)
 - Section 9 Special Conditions of Contract (SCC)
 - Section 10 Contract Forms
 - Financial Proposal Template in MS Excel format
- b) Unless downloaded directly from the DGS website (<https://www.dgshipping.gov.in>) or the e-procurement portal <https://eprocure.gov.in/eprocure/app> as specified in the **Data Sheet**, Client shall not be responsible for the correctness of the Request for Proposals, responses to requests for clarification, the Minutes of the Pre-Proposal meeting, if any, or Amendment(s) to the Request for Proposals in accordance with ITB.
- c) Bidders are expected to examine all instructions, forms, terms, and specifications in the Request for Proposals and to furnish with its Proposal all information or documentation as is required by the Request for Proposals.

2.2 Clarification of Request for Proposals

- a) A Bidder requiring any clarification of the Request for Proposals shall contact the DGS in writing / email at the Client's address specified in the **Data Sheet**.
- b) The Client will respond in writing / email / through the e-procurement portal to any request for clarification, provided that such request is received prior to the deadline for submission of Proposals within a period specified in the **Data Sheet**. The Client shall also promptly publish brief description of the enquiry but without identifying its source and its response at its website or on the e-procurement portal.
- c) Should the clarification result in changes to the essential elements of the Request for Proposals, the Client shall amend the Request for Proposals following the procedure given under ITB.

d) The queries should necessarily be submitted in the following format

Name	Designation	Email ID(s)	Tel. Nos. & Fax Nos.

S. No	RFP Document Reference (s) (Page Number and Section Number)	Content of RFP Requiring Clarification	Points of Clarification
1.			
2.			
3.			
4.			
5.			

- e) DGS shall not be responsible for ensuring that the bidders' queries have been received by them. Any requests for clarifications after the indicated date and time may not be entertained by the DGS.
- f) Queries must be strictly submitted only in the prescribed format (.XLS/.XLSX). Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity.

2.3 Pre-Proposal Meeting

- a) In order to provide response to any doubt regarding Request for Proposals, or to clarify issues, a pre-Proposal meeting may be scheduled, as specified in the **Data Sheet**.
- b) During the pre-Proposal meeting, the clarification sought by representative of prospective Bidders shall be responded appropriately. However, they shall be asked to submit their written request by close of office next day or by e-mail for electronic record thereof. The Client shall publish written response to such requests for clarifications, without identifying its source. In case required, amendment(s), in terms of ITB below shall be issued, which shall be binding on all prospective Bidders.

2.4 Amendments to Request for Proposals

- a) At any time prior to the deadline for submission of Proposals, the DGS may, for any reason deemed fit by it, amend or modify the Request for Proposals by issuing Amendment(s)/corrigendum.
- b) Such Amendment(s)/corrigendum will be published on DGS's website or on the e-procurement portal and the same shall be binding on all prospective Bidders.
- c) To provide prospective Bidders reasonable time for taking the corrigendum into account, DGS may, at its discretion, extend the last date for the receipt of Proposals. Notifications regarding extensions, corrigendum, will be published on the website mentioned in the tender schedule and there shall be no paper advertisement.

Bidder

- d) Any Bidder who has downloaded the Request for Proposals should check the Amendment(s), if any, issued on the DGS website and on the e-procurement portal.

3. Preparation of Proposals

3.1 Documents Comprising Proposal

- a) Bidder's pre-qualification / eligibility submission shall comprise the documents listed under ITB Clause 4 and corresponding Data Sheet entry.
- b) Bidders are required to enrol on the e-Tendering website on the link provided in the Proposal Data sheet
- c) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- d) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the e-Tendering Portal.
- e) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India with their profile.
- f) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- g) Bidder shall then log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.
- h) The proposal should contain ATLEAST the following submission on the e-Tendering Portal. However, this is not an exhaustive list, bidder is expected to go through the tender and provide documents as necessary
- i) During Online Bid Preparation stage, bidders are allowed to make any changes or modifications in the bid data uploaded by them in Technical as well as Commercial envelope. Once a bidder successfully completes the Bid Preparation stage (by generating the Hash Values), system won't allow him/her to make any further changes or modifications in the bid data.
- j) Technical Bid: The list of Documents to be submitted as part of Technical Bid is provided below.

Covering Letter – Technical Bid	Please refer Tech 1
Prequalification compliance sheet	Please refer Tech 17
Bidder Details	Please refer Tech 2
Financial Capabilities	Please refer Tech 3
Profile of Resource	Please refer Tech 4
Manpower Details	Please refer Tech 5
Technical Solution	Please refer Tech 6
Unpriced Bill of Material	Please refer Tech 18
Approach and Methodology	Please refer Tech 7
Project Plan and development	Please refer Tech 8
Deployment of Personnel	Please refer Tech 9
Details of Experience of Bidder in Various Projects	Please refer Tech 10
List of Sub-Contractors and OEMs and their details	Please refer Tech 11
Black-listing Certificate	Please refer Tech 12
Format of Consortium Agreement	Please refer Tech 13
Bank Guarantee for Earnest Money Deposit	Please refer Tech 14
Certificate of Conformity / No Deviation	Please refer Tech 15
Declaration for No Conflict of Interest	Please refer Tech 16
Compliance sheet for Functional Requirements	Please refer Annexure
Compliance sheet for Technical Requirements	Please refer Annexure

- k) Bidder's financial Proposal shall comprise the financial quote submitted in the excel template

published along with these Request for Proposals.

Financial Proposal

The Bidder shall use the financial proposal template uploaded along with this RFP for preparation of their financial proposal. The Bidder shall enter the remuneration and reimbursable rates along with applicable taxes. The Bidder shall quote the price in INR only.

3.2 Period of Validity of Proposals

- a) Proposals shall remain valid for a period of 180 days from the deadline of submission of Proposals unless otherwise specified in the **Data Sheet**.
- b) In exceptional circumstances, prior to the expiration of the Proposal validity period, the Client may request Bidders to extend the period of validity of their Proposals. The request and the responses shall be made in writing. A Bidder may refuse the request without any penal repercussions. A Bidder granting the request shall not be required or permitted to modify its Proposal.

3.3 Format and Signing of Proposals

- a) Documents establishing Bidder's eligibility shall be compiled into a single PDF file. All pages in the document should be serially numbered and an index specifying contents of the Proposal should be populated at the beginning of the document.
- b) The technical Proposals comprising all documents specified under ITB Clause 10 a) may be compiled into a single PDF document. All pages in the document should be serially numbered and an index specifying contents of the Proposal should be populated at the beginning of the document.
- c) Authorized signatory of the Bidder shall sign, either physically or digitally, on each page of the Proposal. This signature should be accompanied by Bidder's official seal.
- d) The financial Proposal must be submitted in the MS excel template provided with the Request for Proposals. Any financial quotation in Request for Proposal (RFP) will result in disqualification of the bid.

4. Submission and Opening of Proposals

4.1 Sealing, Marking and Submission of Proposals

- a) Bidders shall submit their pre-qualification (eligibility) documents as well as the technical and financial proposals online.
- b) Online submission of Proposals shall be carried out in accordance with the instructions given under Annexure I.

4.2 Deadline for Submission of Proposals

- a) Proposals must be received by the Client online on the e-procurement portal no later than the date and time specified in the **Data Sheet**.
- b) The date of submission and opening of Proposals shall not be extended except when:
 - sufficient number of Proposals have not been received within the given time and the Client is of the opinion that further Proposals are likely to be submitted if time is extended; or
 - the Request for Proposals are required to be substantially modified as a result of discussions in pre-Proposal meeting or otherwise and the time for preparations of Proposals by the prospective Bidders appears to be insufficient for which such extension is required.

- c) In cases where the time and date of submission of Proposals is extended, an amendment to the Request for Proposals shall be issued.

4.3 Late Proposals

The e-procurement portal does not permit late submission of Proposals.

4.4 Opening of Proposals

- a) The pre-qualification (eligibility) documents and the technical proposals shall be opened online on the date and time stipulated in the **Data Sheet**.
- b) After due evaluation of the technical Proposals, the Client shall notify the technically qualified Bidders regarding the date of financial Proposal opening by giving at least 3 days' advance notice on the e-procurement portal.
- c) The financial Proposals of only technically qualified Bidders shall be opened.

5. Evaluation and Comparison of Proposals

5.1 Confidentiality

- a) Information relating to the evaluation of Proposals and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the bidding process until the same is published officially on the e-procurement portal for information of all Bidders.
- b) Any effort by a Bidder to influence the Client in the evaluation or contract award decisions may result in the rejection of its Proposal.

5.2 Preliminary Examination of Proposals

- a) The Proposal Evaluation Committee constituted by the Client shall conduct a preliminary scrutiny of the opened Proposals at the beginning to assess the prima-facie responsiveness and record its findings thereof particularly in respect of the following:
 - that the Proposal is complete and duly signed by authorized signatory;
 - that the Proposal is valid for the period, specified in the Request for Proposals;
 - that the Proposal is unconditional and that the Bidder; and
 - any other specific requirements put forth in the Request for Proposals.
- b) Proposals failing to meet these preliminary requirements shall be treated as non-responsive and shall not be considered further for evaluation.

5.3 Immaterial non-conformities

- a) The Proposal Evaluation Committee may waive non-conformities in the Proposal that do not constitute a material deviation, reservation or omission and deem the Proposal to be responsive;
- b) The Proposal Evaluation Committee may request the Bidder to submit necessary information or documents which are historical in nature like audited statements of accounts, tax clearance certificate, PAN, etc. within a reasonable period of time. Failure of the Bidder to comply with the request within the given time shall result in the rejection of its Proposal;
- c) The Proposal Evaluation Committee may rectify immaterial non-conformities or omissions on the basis of the additional information or documentation received from the Bidder.

5.4 Determination of Responsiveness

- a) The Proposal Evaluation Committee constituted by the Client shall determine the responsiveness of a Proposal to the Request for Proposals based on the contents of the

Proposal submitted by the Bidder;

- b) A Proposal shall be deemed to be substantially responsive if it meets the requirements of the Request for Proposals without any material deviation, reservation, or omission where: -
 - i. "deviation" is a departure from the requirements specified in the Request for Proposals;
 - ii. "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Request for Proposals; and
 - iii. "omission" is the failure to submit part or all of the information or documentation required in the Request for Proposals.
- c) A "material deviation, reservation, or omission" is one that, if accepted, shall:-
 - i. Effect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the Request for Proposals; or
 - ii. Limit in any substantial way, inconsistent with the Request for Proposals, the rights of the Client or the obligation of the Bidder under the proposed contract; or
 - iii. If rectified shall unfairly affect the competitive position of other Bidders presenting responsive Proposals;
- d) The Proposal Evaluation Committee shall examine the technical aspects of the Proposal in particular to confirm that all requirements of Request for Proposals have been met without any material deviation, reservation or omission;
- e) The Proposal Evaluation Committee shall regard a Proposal as responsive if it conforms to all requirements set out in the Request for Proposals, or contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the Request for Proposals, that is, there is no material deviation, or if it contains errors or oversights that can be corrected without any change in the substance of the Proposal;
- f) Proposals that are not responsive or contain any material deviation shall be rejected. Proposals declared as non-responsive shall be excluded from any further evaluation.

5.5 Non-conformities, Errors and Omissions

- a) Provided that a Proposal is substantially responsive, the Proposal Evaluation Committee may waive any nonconformity in the Proposal.
- b) Provided that a Proposal is substantially responsive, the Client, being DGS or authorized representative may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Proposal related to documentation requirements. Such omission shall not be related to any aspect of the price of the Proposal. Failure of the Bidder to comply with the request may result in the rejection of its Proposal.
- c) Provided that a Proposal is substantially responsive, the Proposal Evaluation Committee shall rectify quantifiable nonmaterial nonconformities related to the Proposal Price. To this effect, the Proposal Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non- conforming item or component.

5.6 Evaluation of Proposals

- a) Technical evaluation of proposals shall be carried out based on the criteria stipulated under 'Section 4 – Evaluation Criteria'. The evaluation committee shall not adopt any other criteria other than the ones already stipulated in the Request for Proposals.
- b) The evaluation of financial Proposal will shall be including GST.

- c) The Client's evaluation of a proposal may require the consideration of other factors, in addition to the Bidder's financial offer. These factors may be related to the characteristics, performance, and terms and conditions of Consultancy Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Proposals, shall be specified in 'Section 4 - Evaluation Criteria'.
- d) Bidders shall be asked to deliver presentation on their technical proposals as per the details provided in the **Data Sheet**. This presentation shall only cover contents of the technical proposals submitted by the Bidder. No marks shall be assigned to the presentation. The objective of the presentation round is to summarize the contents of Bidder's technical proposal for better understanding of the evaluation committee.

5.7 Right to Accept Any Proposal and to Reject Any or All Proposals

The Client reserves the right to accept or reject any Proposal, and to cancel / annul the Bidding process and reject all Proposals at any time prior to contract award, without thereby incurring any liability to the Bidders for which the Client shall keep record of clear and logical reasons properly for any such action / recall of Bidding process. In case of cancellation / annulment, all Proposals submitted and specifically, Proposal securities, shall be promptly returned to the Bidders

6. Award of Contract

6.1 Award Criteria

The Bidder obtaining the highest combined evaluation score i.e. sum of weighted technical and financial scores shall be considered for award of contract (in case of QCBS evaluation)

6.2 Notification of Award

- a) Prior to the expiration of the period of Proposal validity, the Client shall notify the successful Bidder, in writing, that its Proposal has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the accepted contract price. The expected date of award of contract is as stipulated under **Data Sheet**.
- b) Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

6.3 Other Statutory Requirements

Successful Bidder shall be required to fulfill insurance and other statutory requirements including submission of signed undertakings assuring compliance with the various standards stipulated in the conditions of contract. Failure of the successful Bidder to submit the same shall constitute sufficient grounds for the annulment of the award. In that event the Client may award the Contract to the next highest evaluated Bidder, whose Proposal is substantially responsive and is determined by the Client to be qualified to perform the Contract satisfactorily.

6.4 Signing of Contract

Promptly after notification of Award, the Client shall send the successful Bidder the Contract Agreement. Within twenty-eight days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Client.

- 7. The selected firm shall furnish a Performance Bank Guarantee (PBG) of 5% of the contract value within 15 days of receiving the Letter of Award (LOA).

Section 3 – Data Sheet

The following specific data for the Selection of the System Integrator to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidderbidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB

ITB Para Reference	Particulars
ITB 1b)	The Client is: DGS, Address: _____ The Method of Selection of Bidder is: Quality & Cost Based Selection (QCBS)
ITB 1 d)	The intended completion date is <enter date>
ITB 4	In order to be considered for technical evaluation, the Bidder must satisfy the eligibility requirements stipulated under Section 4.
ITB 6 b)	The official website of DGS is: https://www.dgshipping.gov.in/ The e-procurement portal is: https://eprocure.gov.in/eprocure/app
ITB 7 a)	The Client's address for seeking clarifications is: Directorate General of Shipping, 9th Floor Beta Building,i-Think Techno Campus, Kanjurmarg (East), Mumbai - 400 042 (India) Tel. No. : 91-22-25752040/41/42/43/45 Fax.No. :91-22-25752029/35; Email: dgship-dgs[at]nic[dot]in Primary Custodian :- Ms Sujata More Mail Id: - sujatam-dgs@gov.in Contact of Primary Custodian: -9702261155 Queries may also be raised by using the 'seek clarifications' option available on the e-procurement portal.
ITB 7 b)	The Bidders may submit their requests for clarification before the seek clarification end date as will be mentioned in the E-Procurement portal.
ITB 8 a)	The pre-Proposal meeting shall be held electronically on 09/04/2025: 02:00 PM The web-link to attend the pre-Proposal meeting is as follows: https://tinyurl.com/tyfrhtdy

ITB 12 a)	No change. Proposals shall remain valid for a period of 180 days from the deadline of submission of Proposals.
ITB 14	Bid Security / Earnest Money Deposit of INR 40,00,000(Rupees Forty Lakhs Only) valid for 90 days in the form of Demand Draft from the date of submission of bid as mentioned in the Scope of Work. Or if the Bidder is exempted from submission of EMD Bid Security Declaration shall be submitted duly signed on the letterhead of the bidder, in pursuance of Govt. of India O.M. No. F.9/4/2020-PPD dated 12/11/2020, as per the format provided. The demand draft shall be drawn in favor of "Directorate General of Shipping Mumbai," and shall be payable at Mumbai.
ITB 7	The selected firm shall furnish a Performance Bank Guarantee (PBG) of 5% of the contract value within 15 days of receiving the Letter of Award (LOA). The PBG shall be issued by a scheduled commercial bank in favor of "Directorate General of Shipping Mumbai," and shall be payable at Mumbai and shall remain valid for a period of 3 months beyond the completion of the contract. Failure to submit the PBG within the stipulated time may result in the forfeiture of the award
ITB 17 a)	The web-address of e-procurement portal is: https://eprocure.gov.in/eprocure/app The address for submission of hard copies of technical proposal, EMD, Performance Guarantee is: Directorate General of Shipping, 9th Floor Beta Building,i-Think Techno Campus, Kanjurmarg (East), Mumbai - 400 042 (India) Tel. No. : 91-22-25752040/41/42/43/45 Fax.No. :91-22-25752029/35; Email: dgship-dgs[at]nic[dot]in The deadline for submission of Proposals is on 28/04/2025; 03:00 PM
ITB 17 a)	The technical Proposals shall be opened online on 29/04/2025; 03:00 PM.
ITB 23 d)	The presentations shall be held online using Microsoft Teams / offline within a week after opening of the technical proposals. The specific dates, time and meeting links shall be notified by the client on its website i.e. https://www.dgshipping.gov.in/ and also will be communicated via respective emails.
ITB 28 a)	The expected date of award of contract is .

Annexure I - Instructions for Online Proposal Submission

Bidders are required to submit soft copies of their Proposals electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the Bidders in registering on the CPP Portal, prepare their Proposals in accordance with the requirements and submitting their Proposals online on the CPP Portal.

1. REGISTRATION

- i. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online Bidder Enrollment" on the CPP Portal which is free of charge.
- ii. As part of the enrolment process, the Bidders will be required to choose a unique username and assign a password for their accounts.
- iii. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPPP.
- iv. Upon enrolment, the Bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- v. Only one valid DSC should be registered by a Bidder. Please note that the Bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- vi. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

2. SEARCHING FOR TENDER DOCUMENTS

- i. There are various search options built in the CPP Portal, to facilitate Bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the Bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- ii. Once the Bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the Bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- iii. The Bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

3. PREPARATION OF PROPOSALS

- i. Bidder should take into account any corrigendum published on the tender document before submitting their Proposals.
- ii. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the Proposal. Please note the number of covers in which the Proposal documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the Proposal.
- iii. Bidder, in advance, should get ready the Proposal documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Proposal documents may be scanned with 100 dpi with black and

white option which helps in reducing size of the scanned document.

- iv. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every Proposal, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the Bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a Proposal, and need not be uploaded again and again. This will lead to a reduction in the time required for Proposal submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Proposal.

4. SUBMISSION OF PROPOSALS

- i. Bidder should log into the site well in advance for Proposal submission so that they can upload the Proposal in time i.e. on or before the Proposal submission time. Bidder will be responsible for any delay due to other issues.
- ii. The Bidder has to digitally sign and upload the required Proposal documents one by one as indicated in the tender document.
- iii. Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- iv. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of Proposal submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during Proposal submission time, otherwise the uploaded Proposal will be rejected.
- v. Bidders are requested to note that they should necessarily submit their financial Proposals in the format provided and no other format is acceptable. If the price Proposal has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the Bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the Bidder). No other cells should be changed. Once the details have been completed, the Bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the Bidder, the Proposal will be rejected.
- vi. The server time (which is displayed on the Bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the Proposals by the Bidders, opening of Proposals etc. The Bidders should follow this time during Proposal submission.
- vii. All the documents being submitted by the Bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of Proposal opening. The confidentiality of the Proposals is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any Proposal document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using

- buyers/Proposal opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized Proposal openers.
- viii. The uploaded tender documents become readable only after the tender opening by the authorized Proposal openers.
 - ix. Upon the successful and timely submission of Proposals (i.e. after Clicking "Freeze Proposal Submission" in the portal), the portal will give a successful Proposal submission message & a Proposal summary will be displayed with the Proposal no. and the date & time of submission of the Proposal with all other relevant details.
 - x. The Proposal summary has to be printed and kept as an acknowledgement of the submission of the Proposal. This acknowledgement may be used as an entry pass for any Proposal opening meetings.

5. ASSISTANCE TO BIDDERS

- i. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- ii. Any queries relating to the process of online Proposal submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

Bidders may avail the free training on the use of e-procurement system as per the schedule published at the following link: <https://eprocure.gov.in/cppp/trainingdisp>. In case of any further queries, please contact Shri Vikram Satre at +91-82865-87409 during office hours i.e. between 10 AM till 6 PM on weekdays.

Section 4 – Evaluation Criteria

This Section contains all the criteria that the DGS shall use to evaluate Proposals and qualify the Bidders. No other factors, methods or criteria shall be used for the purpose of evaluation.

- i. The overall objective of this evaluation process is to select the capable and qualified firm in the business domain of developing and rolling out the integrated application, related hardware and other infrastructure, providing associated capacity building, training and handholding support as well as associated managed services and who will provide a comprehensive solution towards Supply, Installation, Integration, Commissioning, Development, Deployment, Operation & Management of the said system and hardware provisioning at DGS.
- ii. First the Pre-Qualification Proposal will be evaluated and only those bidders who qualify the requirements will be eligible for next set of evaluations. Technical Proposal and Commercial Proposal of Bidders who do not meet the Pre-Qualification criteria shall not be evaluated.
- iii. The technical score of all the bidders would be calculated as per the criteria mentioned below. All the bidders who achieve at least 70% marks in the technical evaluation would be eligible for the next stage, i.e., Financial Bid opening.
- iv. Proposals of bidders would be evaluated as per Technical Evaluation Criteria.

1. Assessment of Eligibility

The Bidder's proposals shall be first assessed for eligibility based on the eligibility criteria stipulated below. Only those Bidders who are found to be eligible as per the stipulated criteria shall be considered for evaluation of technical proposals.

- i. The prospective Bidders shall enclose documentary evidences in support of the Pre-Qualification Criteria along with the Bid.
- ii. An indicative format for the Pre-Qualification Proposal is as follows [Please customize this list on the basis of Pre-Qualification Criteria Finalized below]

S. No	Criteria	Pre-qualification Criteria description	Supporting Document	Response (Yes / No)	Reference in Response to Pre-Qualification Bid (Section # and Page #)

SN	Criteria	Supporting Documents (to be Included in the RFP)
1	The Bidder/Lead bidder in case of consortium must be registered with the appropriate government authority as a pvt. ltd. company / ltd. company / LLP and shall be in the consulting services business for at least 5 years.	Copy of the incorporation / registration certificate clearly indicating the nature of business. To be submitted for - • Single Bid – Bidder • Consortium Bid – Lead Bidder
2	The Bidder/Lead bidder in case of consortium must have valid registration regarding GSTIN, PAN, EPF, ESI, Labour, or equivalent registration certificate issued by the concerned authority/government as applicable to the	Copy of certificate for Registration To be submitted for - • Single Bid – Bidder • Consortium Bid – Lead Bidder

	subject Services.	
4	The Bidder / lead bidder in case of consortium must have a minimum average annual turnover of INR 40 Cr. and in case of MSME INR 16 Cr. for the last three financial years ending 31st March 2024 as evidenced by the audited accounts of the company. In case of consortium, consortium member (except Lead Bidder) must have a minimum turnover of INR 16 Crores (Sixteen Crores)	Copy of Audited Annual Balance sheet for last three years ending 31.03.2024 with Certificate from a CA stating Annual Turnover and the average turnover for similar projects for the last three years. Form: Tech 3 In case of: Single Bid – Bidder Consortium Bid – Lead bidder and consortium members
5	The bidder (for single firm) should have a positive net worth for 3 consecutive years i.e. 2021-22, 2022-23 and 2023-24 In case of a Consortium, the Lead Member must have positive net worth	Audited financial statements for the past 3 financial years. CA Certificate for 3 Years.
6	Must not be presently debarred / blacklisted by any procuring entity under the central government including PSUs and autonomous entities or by state governments or by multilateral agencies such as The World Bank, Asian Development Bank, etc.	Self-declaration of not having been debarred / blacklisted by any of the entities mentioned in this criterion at present. Form: Tech 12
7	The Bidder (Single firm or any member of the consortium) must have System Integrator experience of successful Go-Live / completed project during the last FIVE years (from the last date of bid submission) in ONE IT/ITES project of amount not less than Rs. 6 crores OR TWO IT/ITES projects of amount not less than Rs. 4.5 crores each OR THREE IT/ITES projects of amount not less than Rs. 3 crores each THREE or more will be added weightage in QCBS. Each of which includes Application Development, Software Support, training, support manpower & maintenance involving services to any state / central government organization in India and PSU in India or abroad during the last five financial years.	i. In case of completed projects bidder to submit Copy of work order / MSA / PO and bidder to submit Completion Certificate from the client. ii. In case of ongoing projects bidder to submit Copy of work order / MSA / PO and proof of payment of the project(s) has been received up to UAT. iii. The chartered accountant's certificate to the above extent indicating the name of the firm, name of the client, total value of the project and payment received as on date is to be submitted
7	The bidder / Lead Bidder in case of consortium must submit EMD to DGS as per tender format	Bank Guarantee against EMD shall be submitted by Bidder Form: Tech 14

2. Technical Evaluation Process

The evaluation committee shall carry out the preliminary examination of Proposals and shall determine the responsiveness of Proposals based as per the procedure stipulated under ITB.

1. Evaluation Criteria (QCBS)

The DGS shall evaluate the **technical proposals** on the basis of the following criteria:

#	Evaluation Criteria for the proposed solution	Max Marks
A	Bidder Experience	450
A.1	System Integration Experience	170
A.2	System Integration Experience in Specific sector	100
A.3	Mobile Application Development Experience	50
A.4	Cloud Experience	80
A.5	Certifications	50
B	Resource Requirements	240
B.1	Project Manager (01)	40
B.2	Solution Architect (01)	40
B.3	Business Analyst (01)	35
B.4	Database Administrator (01)	35
B.5	Mobile App Specialist (01)	30
B.6	Cloud Infrastructure specialist (01)	35
B.7	UI/ UX designer (01)	25
C	Technical Solution	310
C.1	Solution Design and Approach	160
C.2	Technical Presentation	100
C.3	Compliance to Functional and Technical Requirements	50
	TOTAL	1000

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
TOTAL		1000	
A	Bidder Experience	450	
A.1	<i>System Integration Experience</i> The Bidder / Lead bidder in case of consortium must have system integrator experience of executing IT project for a client in last 5 years. The implementation must include IT/ITeS development/ application development/ customization and any 2 of the following: • Third Party Data center setup and operations • Training & Capacity Building • Providing Technical Manpower Support • Operation and maintenance services The implementation must include application development / customization, Operations and maintenance services, Training & Capacity Building, Providing Technical Man-power Support These work orders should be from any of the State/Central Government	170	Completed Projects: Copy of work order / MSA / PO and Completion Certificate from the client. - In case of completed bidder to submit Copy of work order / MSA / PO and bidder to submit Completion Certificate from the client. - In case of ongoing projects bidder to submit Copy of work order / MSA / PO and proof of payment of the project(s) has been received up to UAT. - The chartered accountant's certificate to the above extent indicating the name of the firm, name of the client, total value of the project and payment received as on date is to be submitted - In case of the project under Non - Disclosure Agreement (NDA), Company Secretary of the bidder or certifying authority of bidder should provide the certificate of completion + completion certificate from the client. Form: Tech 10

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
	Departments /Organizations / Public Sector Undertakings. <u>25 marks per project will be allotted.</u> <u>The bidder can submit a maximum of 4 projects. Maximum 100 marks will be awarded.</u> <u>Additionally, marks will be awarded as follows for the above considered projects:</u> • In case the above said experience is for an Indian Government / Indian PSU client – 12.5 Additional Marks per project. The bidder can submit a maximum of 4 projects. Maximum 50 marks will be awarded. • In case the value of the above cited experience is > 5 Crores each – 5 Additional Marks per project. The bidder can submit a maximum of 4 projects. Maximum 20 marks will be awarded The additional criteria shall be evaluated only for the submitted projects (maximum 4).		
A.2	The Bidder / Any member of consortium must have System Integrator experience of successful Go-Live / completed project during the last FIVE years (as on the last date of bid submission) <i>having ERP and related IT services implementation of project.</i> Each project must include implementation include any 4 of the following: • Fund Management • Finance Management • Budgetary Management • Beneficiary & Enrolment Management • Scheme Performance & Impact Assessment • Workflow & Document Management • Audit, Compliance & Security	100	Completed Projects: Copy of work order / MSA / PO and Completion Certificate from the client. - In case of completed bidder to submit Copy of work order / MSA / PO and bidder to submit Completion Certificate from the client. - In case of ongoing projects bidder to submit Copy of work order / MSA / PO and proof of payment of the project(s) has been received up to UAT. - The chartered accountant's certificate to the above extent indicating the name of the firm, name of the client, total value of the project and payment received as on date is to be submitted - In case of the project under Non - Disclosure Agreement (NDA), Company Secretary of the bidder

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
	All the above listed aspects shall be covered across a single project. 30 marks per project will be allotted. A bidder can submit maximum of 2 projects. Maximum 60 marks will be awarded. Additionally, marks will be awarded as follows for the above considered projects: In case the above said experience is for a State/ Central Government / PSU / Autonomous Body (Under Any government law) – 20 Additional Marks per project. Maximum 40 marks will be awarded. Here, System Integrator shall necessarily mean projects where scope of work includes Application Development / Customization Services and Maintenance Services.		or certifying authority of bidder should provide the certificate of completion + completion certificate from the client. Form: Tech 10
A.3	<i>Mobile Application Development Experience</i> The bidder / any member of the consortium must have experience in Designing, developing, and integrating mobile applications on diverse platforms (Android, iOS, Windows, etc.) during the last 5 years (as on the last date of bid submission) including any of the following components: • Workflow based mobile application (5 marks) • Analytics and reporting (5 marks) • Payment gateway integration or any other third-party integration (5 marks) • Application performance monitoring/management (5 marks) • OTP based authentication for mobile login (5 marks) <u>25 marks each project will be allotted. A bidder can submit maximum of 2 projects.</u>	50	Completed Projects: Copy of work order / MSA / PO and Completion Certificate from the client. - In case of completed bidder to submit Copy of work order / MSA / PO and bidder to submit Completion Certificate from the client. - In case of ongoing projects bidder to submit Copy of work order / MSA / PO and proof of payment of the project(s) has been received up to UAT. - The chartered accountant's certificate to the above extent indicating the name of the firm, name of the client, total value of the project and payment received as on date is to be submitted - In case of the project under Non - Disclosure Agreement (NDA), Company Secretary of the bidder or certifying authority of bidder should provide the certificate of completion + completion certificate from the client. Form: Tech 10
A.4	<i>Cloud Experience</i> The Bidder / any consortium member	80	Completed Projects: Copy of work order / MSA / PO and Completion Certificate from the client.

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
	should have experience in setting-up cloud solution in India during the last five years. Cloud Solution set-up would mean where the Bidder has, procured, installed, and commissioned Cloud Infrastructure (Hardware and Software). <u>50% marks per project will be allotted. A bidder can submit maximum of 2 projects.</u>		I. In case of completed bidder to submit Copy of work order / MSA / PO and bidder to submit Completion Certificate from the client. II. In case of ongoing projects bidder to submit Copy of work order / MSA / PO and proof of payment of the project(s) has been received up to UAT. III. The chartered accountant's certificate to the above extent indicating the name of the firm, name of the client, total value of the project and payment received as on date is to be submitted IV. In case of the project under Non - Disclosure Agreement (NDA), Company Secretary of the bidder or certifying authority of bidder should provide the certificate of completion + completion certificate from the client. Form: Tech 10
A.5	Certifications: In case if bidder / Lead Bidder having CMMI Level 5 (DEV) certification maximum of 50 marks will be awarded OR In case if bidder / Lead Bidder having CMMI Level 3 (DEV) certification maximum of 30 marks will be awarded	50	The certifications should be valid on the date of bid submission. In case of Service Providers where the CMMI certification is under renewal, the Bidder shall provide the details of the previous CMMI certification and the current assessment consideration in the Bid Process. Bidder to submit a valid CMMI certificate at the time of signing the contract (if selected) otherwise bidder will be disqualified. Bidder shall ensure that the certifications continue to remain valid till the end of the Agreement.
B	Resource Requirements	240	
B.1	Project Manager (Full Time) (01 Nos) BE / BTech / MCA / MTech and MBA with at least 15 years of Total work experience Award of marks will be as follows: i. Experience of implementing end to end Projects as a Project Manager for scope as defined in the criteria A.1 ○ 6 Projects – 20 Marks ○ 4 – 6 Projects – 15 Marks ○ 2 – 4 Projects – 10 Marks	40	Signed Technical Bid Please provide resource details as per format of “Tech 4: Profile of Resource”

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
	○ < 2 – 0 Marks ii. Experience of implementing end to end Projects as a Project Manager for scope as defined in the criteria A.2 ○ > 4 Projects – 10 Marks ○ 2 – 4 Projects – 5 Marks ○ < 2 – 0 Marks iii. Certifications: PMP / Prince2 Certification. Documentary proof to be submitted. ○ Certified: 10 Marks ○ Not Certified: 0 Marks		
B.2	<i>Solution Architect (01 Nos.)</i> BE / BTech / MCA / MTech / MBA with 10 years' work experience Award of marks will be as follows: i. Experience as Solution Architect in Turnkey projects ○ > 5 Projects – 15 Marks ○ 3 to 5 Projects – 10 Marks ○ < 3 Projects - 0 Marks Additional 5 marks will be provided for a project with PSU / Government Bodies / Autonomous Organization (under any Indian Government law) in India to a maximum of 3 projects. ii. Certifications: TOGAF / Zachman Framework / any other relevant certification. Documentary proof to be submitted. ○ Certified: 10 Marks ○ Not Certified: 0 Marks	40	Signed Technical Bid Please provide resource details as per format of “<i>Tech 4: Profile of Resource</i>”
B.3	<i>Business Analyst (01 Nos.)</i> BE / BTech / MCA / MTech and MBA with at least 5 years of Total work experience Award of marks will be as follows: i. Total Number of Years of Experience working in India or abroad ○ > 8 years – 20 Marks ○ 6 to 8 years – 14 Marks ○ 5 to 6 years – 10 Marks ii. Experience of implementing end to end integrated projects as a business analyst: ○ > 4 projects – 15 Marks ○ 2 - 4 projects – 6 Marks ○ < 2 projects – 0 Marks	35	Signed Technical Bid Please provide resource details as per format of “<i>Tech 4: Profile of Resource</i>”

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
B.4	Database Administrator (01 Nos) BE / BTech / MCA / MTech / MBA with at least 6 years of Total work experience Award of marks will be as follows: i. Number of Years of Experience working as Database Administrator (DBA) - o > 6 years - 20 Marks - o 3 to 6 years - 10 Marks - o < 3 years – 0 Marks ii. Experience as DBA with full capability to setup and run proposed database solution independently: - o >4 Projects – 15marks - o 2 to 4 Projects – 10marks	35	Signed Technical Bid Please provide resource details as per format of “Tech 4: Profile of Resource”
B.5	Mobile app specialist (01 Nos.) B.E./B.Tech. /MCA/MTech degree with at least 5 years’ work experience in designing, developing, implementing, and maintaining mobile apps. Award of marks to individuals shall be as follows: i. Experience in working on projects with expertise in designing, developing, implementing and maintaining mobile apps. - o >8 Projects – 30 marks - o 4 – 8 Projects – 15 marks - o < 4 Projects – 0 Marks	30	Signed Technical Bid Please provide resource details as per format of “Tech 4: Profile of Resource”
B.6	Cloud Infrastructure Expert (01 Nos.) Engineer with experience in Cloud Computing technologies (IAAS/ PAAS / SAAS) with at least 8 years of Total work experience Award of marks will be as follows: i. Experience in large scale Data Centre design and implementation. - o >= 8years – 15 Marks - o 5 to 8 years – 10 Marks - o < 3 years – 0 Marks ii. Experience of managing projects where third-party cloud data centre was integral part of the	35	Signed Technical Bid Please provide resource details as per format of “Tech 4: Profile of Resource”

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED												
	project scope of work - o >=3 Projects – 10 Marks - o 1 to 2 Projects – 5 Marks - o 0 Projects- 0 Marks iii. Cloud Certification from any leading Cloud OEMs - o Certified– 10 Marks - o Not certified – 0 Marks														
B.7	UI/UX designer (01 Nos.) Relevant certifications (e.g., Google UX Design Professional Certificate, Certified User Experience Analyst)with at least 5 years of work experience Award of marks will be as follows: i. Experience in large scale UI and UX design and implementation. - o >= 5 years – 15 Marks - o 3 years to 5 years – 10 Marks - o < 3 years – 0 Marks ii. Having worked on significant projects. These projects should demonstrate a range of skills, including user research, wireframing, prototyping, and usability testing. - o >=5 Projects – 10 Marks - o 3 to 5 Projects – 5 Marks - o < 3 years – 0 Marks	25	Signed Technical Bid Please provide resource details as per format of “Tech 4: Profile of Resource”												
C	Technical Solution	310													
C.1	Solution Design and Approach (as part of Bid Response Document) Marks will be awarded as below: o Approach and Methodology for implementation and Operations and Maintenance - 40 Marks <table><thead><tr><th>#</th><th>Description</th><th>Max. Marks</th></tr></thead><tbody><tr><td>1.</td><td>Overall implementation methodology (Objective of phases, deliverables at each phase, etc.)</td><td>5</td></tr><tr><td>2.</td><td>Methodology for performing business design</td><td>5</td></tr><tr><td>3.</td><td>Methodology for quality control</td><td>5</td></tr></tbody></table>	#	Description	Max. Marks	1.	Overall implementation methodology (Objective of phases, deliverables at each phase, etc.)	5	2.	Methodology for performing business design	5	3.	Methodology for quality control	5	160	Signed Technical Bid Forms: Tech 6, Tech 7, Tech 8
#	Description	Max. Marks													
1.	Overall implementation methodology (Objective of phases, deliverables at each phase, etc.)	5													
2.	Methodology for performing business design	5													
3.	Methodology for quality control	5													

#	PARAMETER			MAX. MARKS	EVIDENCE TO BE SUBMITTED
		and testing of configured system			
	4.	Methodology of internal acceptance and review mechanism for deliverables by the bidder	5		
	5.	Proposed Acceptance criteria for deliverables	5		
	6.	Methodology and approach along with proposed tools and processes which will be followed by the bidder during project implementation	5		
	7.	Change Management and Training Plan	5		
	8.	Risk and Quality management plan	5		
	Total		40		
	○ Solution Architecture – 20 Marks				
	#	Description	Max. Marks		
	1.	Technical architecture view	3		
	2.	Data architecture view	3		
	3.	Application architecture view	3		
	4.	Network architecture view	3		
	5.	Data centre architecture view	3		

#	PARAMETER		MAX. MARKS	EVIDENCE TO BE SUBMITTED
	6.	Security architecture view	3	
	7.	End user computing view	2	
	Total		20	
	o Solution Design meeting all the proposed functionalities – 20 Marks			
	#	Description	Max. Marks	
	1.	Proposed Solution, in detail (including various tools to be used)	2	
	2.	Proposed Technical architecture	2	
	3.	Capabilities of the proposed solution to address the functional requirements	2	
	4.	Database design considerations	2	
	5.	Application Security Architecture	3	
	6.	Cloud DC DR Considerations	3	
	7.	Data Migration approach	2	
	8.	Testing approach	2	
	9.	Risk Management Plan	2	
	Total		20	
	o Detailed Project Plan covering scope of work, activities & deliverables as per timelines, key personnel deployment, risk mitigation measures – 30 Marks			
	o Approach towards integration with external systems – 20			

#	PARAMETER	MAX. MARKS	EVIDENCE TO BE SUBMITTED
	Marks o Project Governance Methodology – 20 Marks o Change Management and Training – 10 Marks		
C.2	Technical Presentation o Understanding of the project objective o Approach & methodology of the proposed solution o Demo of the proposed system o Question and Answers	100	Presentation to Authorities of DGS (Inclusive of any site visit for designated DGS officials which could be done before or after the presentation). Evaluation of this shall be communicated accordingly to the committee for awarding of marks. The bidders are expected to present their key resources which will be leading the implementation and whose profiles would be evaluated by the evaluation committee
C.3	Compliance to Functional Requirement specifications and Technical Requirement specifications as Listed in Annexure of the Tender	50	Signed Functional requirement compliance sheet with the Technical Bid MAF provided by OEM stating that product being proposed meets the requirement criteria as mentioned in the RFP including changes issued & Technical specification compliance sheet with the Technical Bid

Please note that:

All Resources proposed by the Bidder should be Full Time Employee with the Bidder organization for a minimum of 6 months

Bidders are required to use the format provided below and respond to each of the functional requirement, (excluding, sample forms and logic) with one of the below mentioned answer keys:

F = Fully provided "Out-of-the-Box" in proposed product /solution

C = Configuration / Customization required

N = New Development

Sr. No.	Process Type	System Requirement	Response (F/C/N)	Comments (if any)

The Bidders may also add explanatory details as necessary in the "comments" column.

Please note that:

Bidders must use only one response code per requirement.

In case of any unanswered response OR more than one response against any requirement it will be treated as "non-response"

While evaluating the key experts' CVs, 20% weightage shall be given for their educational qualifications and remaining 80% for relevance of their work experience. The client reserves the right to assign zero marks to any key expert not meeting the minimum requirements stipulated in the Terms of Reference, and to seek replacement of the proposed key expert with a better qualified expert in case

the Bidder is selected for award of contract.

Bidders must ensure that the documentary evidence submitted by them as part of their technical proposal must provide necessary information in adequate details to establish the facts without a scope for doubt. Any scanned documents being submitted must possess adequate resolution to ensure legibility without confusion. In case any information necessary for establishing Bidder's qualifications is not clear from the documents submitted, the evaluation committee's interpretation in that regard shall be final. Incomplete or unclear documents may lead to disqualification of the Bidder.

The minimum qualifying technical score is 700 out of 1000. Financial proposals of only those Bidders shall be opened who obtain at least 700 marks in the technical evaluation.

3. Commercial Bid Evaluation

- i. The Financial Bids of technically qualified bidders (i.e., 70% marks) will be opened on the prescribed date in the presence of bidder representatives.
- ii. Only fixed price financial bids indicating total prices for all the deliverables and services specified in this bid document will be considered.
- iii. The bid price will include all taxes and levies and shall be in Indian Rupees and mentioned separately.
- iv. Any conditional bid would be rejected.
- v. Errors & Rectification: Arithmetical errors will be rectified on the following basis: "If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail".
- vi. Bidder should provide all prices as per the prescribed format provided in Annexure.
- vii. Bidder should not leave any field blank. In case the field is not applicable, Bidder must indicate "0" (Zero) in all such fields.
- viii. All the prices (even for taxes) are to be entered in Indian Rupees ONLY (%age values are not allowed)
- ix. It is mandatory to provide breakup of all Taxes, Duties and Levies wherever applicable and/or payable. DGS shall consider all Taxes, Duties & Levies for the purpose of Evaluation
- x. DGS reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated.
- xi. The Bidder needs to account for all Out-of-Pocket expenses related to Boarding, Lodging and other related items in the commercial bids. Any additional charges have to be borne by the bidder. For evaluation of Commercial Bids, the DGS shall make appropriate assumptions to arrive at a common bid price for all the Bidders. This however shall have no co-relation with the Contract value or actual payment to be made to the Bidder
- xii. The price quoted in the Commercial Proposal shall be the only payment, payable by DGS to the successful Bidder for completion of the contractual obligations by the successful Bidder under the contract, subject to the terms of payment specified as in the proposed commercial bid or the one agreed between DGS and the Bidder after negotiations.
- xiii. It is mandatory to provide break up of all taxes, duties, and levies wherever applicable and/or payable. The taxes quoted in the offer should be as per the prevailing tax rates. Any subsequent increase in the tax rates or introduction of new tax will be paid by DGS. Similarly, any benefits arising due to downward revision in tax rates, or any exemptions availed by the Bidders organization should be passed on to DGS. The bid amount shall be inclusive of packing, forwarding, transportation, insurance till Go live, delivery charges and any other charges as applicable. Any other charges as applicable shall be borne by the bidder.
- xiv. Percentage (%) of taxes etc. if any, to be claimed shall be indicated in the Price bid, otherwise it will be presumed that rates are inclusive of all taxes and no plea would be accepted in this regard after opening of the tenders and during the validity of the contract.

- xv. The Bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be considered for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be the lowest, DGS shall avail such discount at the time of award of Contract. For future purposes, Unit prices of all individual components will be discounted accordingly (by the overall discount % in case overall discount % is given or by the individual component discount % in case item wise discount given) to arrive at component-wise unit prices.

4. Appointment of System Integrator

4.1 Award Criteria

- i. Evaluation criteria proposed to be adopted will be Quality cum Cost Based System (QCBS) where Technical Bid Score will get a weightage of 70% and Commercial Bid Score a weightage of 30%.
- ii. The bidder would be technically evaluated out of 1000 marks. All the bidders who secure overall minimum of 70% (700 Marks out of 1000 across all the components together) will be considered as technically qualified. Technical score of all bidders will be calculated based on the following formula:
- iii. Technical Score of bidders (TS) = Technical Marks received by the bidder x 70%
- iv. The Bid having the Lowest Commercial Quote shall be termed as the Lowest Evaluated Bid and will be awarded 1000 marks. Commercial score of all the other bidders will be calculated based on the following formula:
- v. Commercial score of bidders (CS) = $\frac{\text{Commercial Quote of the lowest bidder} \times 1000 \times 30\%}{\text{Commercial Quote of the bidder}}$
- vi. Final Score of the bidder: Final Score of each bidding party will be computed by adding the technical score and Commercial Score on the basis of the following formula:
Total Score = TS + CS
- vii. The bidder whose bid has secured the "Highest Total Score" out of 1000 as per above evaluation will be considered as best evaluated Bid. In case of a tie where two or more bidders achieve the same highest overall score, the bidder with the higher technical score will be invited first for negotiations
- viii. DGS is not bound to accept the best evaluated bid or any bid and reserves the right to accept any bid, wholly or in part.

Example demonstrating the calculation of Technical Score and Commercial Scores is provided below:

Bidder	Marks Received by bidder	Technical Score of bidders (TS)
Bidder 1	880	616
Bidder 2	900	630
Bidder 3	800	560
Bidder 4	950	665

Commercial Score of a bidder (CS) = {lowest discounted quote / Bidder's discounted quote} X 1000 (adjusted to 2 decimals)

Bidder	Commercial Quote Provided by Bidder	Calculation of commercial score	Commercial Score of Bidder (CS)
Bidder 1	110	(110/110) * 1000 * 30%	300.00
Bidder 2	140	(110/140) * 1000 * 30%	235.71
Bidder 3	160	(110/160) * 1000 * 30%	206.25
Bidder 4	130	(110/130) * 1000 * 30%	253.85

Total Score for each bidder

Bidder	Technical Score (TS)	Commercial Score (CS)	Total Score
Bidder 1	616	300.00	916.00
Bidder 2	630	235.71	865.71
Bidder 3	560	206.25	766.25
Bidder 4	665	253.85	918.85

The bidder with the highest final score shall be treated as the successful bidder. In the above example, Bidder 4 will be treated as successful bidder.

4.2 Right to Accept Any Proposal and To Reject Any or All Proposal(s)

DGS reserves the right to accept or reject any proposal, and to annul the tendering process / Public procurement process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for DGS action.

4.3 Notification of Award

- Prior to the expiration of the validity period, DGS will notify the successful bidder in writing or by fax or email, that its proposal has been accepted. In case the tendering process has not been completed within the stipulated period, DGS may like to request the bidders to extend the validity period of the bid.
- The notification of award will constitute the formation of the contract. Upon the successful bidder's furnishing of Performance Bank Guarantee DGS will notify each unsuccessful bidder and return their EMD.

4.4 Contract Finalization and Award

- The written advice to any change shall be issued by DGS to the bidders up to 4 (four) weeks prior to the due date of commencement of services.
- The selected Bidder/s should convey acceptance of the award of contract by returning duly signed and stamped duplicate copy of the award letter within 7 days of receipt of the communication.
- Upon notification of award to the successful Bidder, DGS will promptly notify each unsuccessful Bidder.

4.5 Performance Bank Guarantee

DGS will require the selected bidder to provide a Performance Bank Guarantee, within 15 days from the Notification of award, for a value equivalent to 3% of the total bid value and should be valid till 6 months post the Contract Period. The Performance Guarantee shall contain a claim period of three months from the last date of validity. In case the Contract Term is extended, the Performance Bank Guarantee should also be extended within 15 days of approval of contract extension and should be valid till 6 months post the Contract Extension Term. The selected bidder shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non-completion of the project and Warranty period. In case the selected bidder fails to submit performance guarantee within the time stipulated, DGS at its discretion may cancel the order placed on the selected bidder without giving any notice. DGS shall invoke the performance guarantee in case the selected Vendor fails to discharge their contractual obligations during the period or DGS incurs any loss due to Vendor's negligence in carrying out the project implementation as per the agreed terms & conditions.

4.6 Signing of Contract

After the DGS notifies the successful bidder that its proposal has been accepted, DGS shall enter into a contract, incorporating all clauses, pre-bid clarifications and the proposal of the bidder between DGS and the successful bidder.

4.7 Failure to Agree with the Terms and Conditions of the RFP

- Failure of the successful bidder to agree with the Draft Legal Agreement and Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event DGS may award the contract to the retender as per CVC guidelines or call for new

- proposals from the interested bidders.
- ii. In such a case, the DGS shall invoke the PBG of the successful bidder.

5. Rejection Criteria

Besides other conditions and terms highlighted in the RFP document, bids may be rejected under following circumstances:

5.1 General Rejection Criteria

- i. Bids not qualifying under Pre-qualification criteria.
- ii. Bids submitted without or improper EMD
- iii. Bids received through Fax / E-Mail except wherever required
- iv. Bids which do not confirm unconditional validity of the bid as prescribed in the Tender
- v. If the information provided by the Bidder is found to be incorrect / misleading at any stage / time during the Tendering Process
- vi. Any effort on the part of a Bidder to influence DGS' s bid evaluation, bid comparison or contract award decisions
- vii. Bids received by the DGS after the last date for receipt of bids prescribed by the DGS
- viii. Bids without signature of person (s) duly authorized on required pages of the bid
- ix. Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the Bidder.
- x. If it is found that multiple bidders have submitted separate tenders/ quotations under different names of firms/ establishments but with common address for such establishments/ firms, are managed or governed by the same person/ persons jointly or severally, such tenders shall be liable for penal and legal action including blacklisting.
- xi. If it is found that firms have tendered separately under different names for the same contract, all such tender(s) shall stand rejected and tender deposit of each such firm/ establishment shall be forfeited. In addition, such firms/ establishments shall be liable at the discretion of the DGS for further penal action including blacklisting.
- xii. The Bidders not confirming unconditional acceptance of full responsibility of providing services in accordance with the Scope of work, General Terms & Conditions and Service Level Agreements of this tender.
- xiii. Bidders not complying with the General Terms and conditions as stated in the Tender Documents.
- xiv. Failure to furnish all information required by the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect.

5.2 Technical Rejection Criteria

- i. Technical Bid containing commercial details.
- ii. Revelation of Prices in any form or by any reason before opening the Commercial Bid
- iii. Failure to furnish all information required by the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect.
- iv. Bidders not quoting for the complete scope of Work as indicated in the Tender documents, addendum (if any) and any subsequent information given to the Bidder.
- v. Bidders not complying with the Technical and General Terms and conditions as stated in the Tender Documents.
- vi. The Bidder not confirming unconditional acceptance of full responsibility of providing services in accordance with the Scope of work and Service Level Agreements of this tender.
- vii. If the bid does not conform to the timelines indicated in the bid.
- viii. Bidder not complying with the eligibility criteria.

5.3 Commercial Rejection Criteria

- i. Incomplete Price Bid
- ii. Price Bids that do not conform to the Tender's price bid format.
- iii. Total price quoted by the Bidder does not include all statutory taxes and levies applicable.
- iv. If there is an arithmetic discrepancy in the commercial bid calculations the bidder shall rectify the same. If the Bidder does not accept the correction of the errors, its bid may be rejected.

- v. Financial Bids that are less than 50% of the average bid price will be disqualified. The average bid price is computed by adding all Financial Bid values of ALL the technically qualified bidders and dividing the same by the number of technically qualified bidders.
- vi. Bidders not quoting for the complete scope of Work as indicated in the Tender documents, addendum (if any) and any subsequent information given to the Bidders.
- vii. Revelation of Prices in any form or by any reason before opening the Commercial Bid

6. Constitution of Team

- i. Key Personnel involved in the project shall be on the permanent payrolls and have a minimum tenure of six months with the company of the Lead Bidder or any of the consortium members.
- ii. The bidder should have a defined hierarchy and reporting structure for various teams that would be part of the project.
- iii. All the concerned staff should log an attendance on a daily basis at their respective reporting location.
- iv. The bidder shall ensure that all the personnel identified for this project have high level of integrity. The bidder shall undertake necessary due diligence to ensure that the personnel have high standard of trustworthiness. The bidder should obtain an undertaking from each of the personnel assigned and the same should be submitted to the DGS or its nominated agencies/ partners as and when demanded by DGS or its nominated agencies/ partners. In addition, DGS could also get the background verification checks of the bidder personnel. Any information needed for this activity by DGS should be provided immediately by bidder.
- v. Bidder can provide additional manpower on the basis of their estimate of effort required to complete the scope of work given in of the tender.
- vi. The bidder should provide sufficient Non-Key Personnel to complete the scope of work. Bidder need not submit the names of such Non-Key Personnel along with the tender.
- vii. Bidder can offer more than one key personnel for a role to improve the quality of key personnel keeping in mind the scope of work as provided in the tender.
- viii. For successful completion and execution of project the bidder shall have to deploy minimum resources as provided in the table below.
- ix. The bidder is free to propose and deploy as many resources as possible apart from the below list for the successful and timely completion of the project. DGS or its nominated agencies / partners will provision space for Bidder personnel in its premises. For the key personnel working out of DGS' / its nominated agencies / partners office, DGS will provide them with basic office infrastructure like seating space, fan, etc. The bidder team is expected to bring their own laptops and data cards (as required).

Sr. No.	Level	Min. No. of People	Minimum Onsite Deployment	
			During Phase I	Period (in months)
1.	Project Manager	1	85%	10.00
2.	Solution Architect	1	85%	10.00
3.	Database Administrator (DBA)	1	75%	9.00
4.	Cloud Infra Expert	1	75%	9.00
5.	Mobile App Expert	1	75%	9.00
6.	Business Analyst	1	85%	10.00
7.	UI/UX Designers	1	50%	6.00
8.	Change Management Specialist / Trainer	2	75%	9.00

Sr. No.	Level	Min. No. of People	Minimum Onsite Deployment	
			During Phase II	Period (in months)
1.	Project Manager	1	100% for first 4 months than 25% for the rest	9
2.	Solution Architect	1	100% for first 4 months	4
3	Cloud Infra Expert	1	100% for first 4 months than 25% for the rest	9
4.	Application Support	1	100% for 24 months	24

Section 5 – Terms of Reference

1. Organizational Background of DGS

The Directorate General of Shipping (DGS), an attached office of the Ministry of Ports, Shipping, and Waterways, Government of India, is responsible for matters related to merchant shipping. The DGS oversees maritime administration, maritime education and training, the development of the shipping industry, and other related subjects.

This Directorate is responsible for implementing shipping policies and legislation to ensure the safety of life and ships at sea, prevent marine pollution, and promote maritime education and training in coordination with the International Maritime Organization. Additionally, it regulates the employment and welfare of seafarers, develops coastal shipping, augments shipping tonnage, examines and certifies Merchant Navy Officers, and supervises and controls allied departments and offices under its administrative jurisdiction.

Further details about the DGS and its functions are available on its official website: <https://www.dgshipping.gov.in>

2. Organizational Background of Seafarer's Welfare Fund Society (SWFS)

The Seafarers' Welfare Fund Society (SWFS) was established following the recommendations of a Special Sub-Committee set up by the National Welfare Board for Seafarers, as per the provisions of the Merchant Shipping (M.S.) Act, 1958. The primary objective of SWFS is to provide welfare facilities for seafarers and undertake initiatives that contribute to their well-being, including support for aged, invalid, distressed, or destitute seafarers and their families.

The general management and control of the Society's affairs are vested in the Committee of Management (CoM), with all members nominated or appointed by the Ministry of Ports, Shipping, and Waterways (MoPSW). The Director General of Shipping serves as the ex-officio Chairman of the Society.

SWFS operates under the administrative control of the MoPSW through the Committee of Management, which represents various stakeholders within the Indian shipping industry, including:

- i. The Director General of Shipping (ex-officio Chairman).
- ii. A Vice Chairman nominated by the Chairman.
- iii. Four members, including the Member Secretary and Member Treasurer, appointed by the Central Government.
- iv. Five members representing Indian and foreign shipowners.
- v. Five members representing seafarers.

The SWFS functions as a central organization for the welfare of Indian seafarers and their families. It is registered under the Societies Registration Act, 1960, and as a Trust under the Bombay Public Trust Act, 1950. The Society's primary objectives include maintaining the Seafarers' Welfare Fund and providing pensions, gratuities, or charitable aid to employees, ex-employees, and their next of kin.

As per data from the last ten years, the number of eligible seafarer beneficiaries for various funds is as follows:

Welfare Fund	Eligible seafarer beneficiaries which are around 3900 from last 10 years data.
Gratuity Fund	Eligible seafarer beneficiaries which are around 6500 from last 10 years data.
Admin Fund	for salaries and office related expenses.

SWFS Existing Schemes

1. Welfare Schemes:

- i. **Survival Benefit Scheme:** For nominees of deceased Indian seafarers who died during the off-article period.
- ii. **Invalidity Benefit Scheme:** For Indian Seafarers suffering from permanent disability.
- iii. **Maternity Benefit Scheme:** For Indian female Seafarers.
- iv. **Old Age Benefit Welfare Scheme:** For Indian seafarers.
- v. **Family Benefit Welfare Scheme:** For Indian seafarers.
- vi. **Ex-Gratia Assistance on Death.**
- vii. **Welfare Scheme under 'Azadi Ka Amrit Mahotsav':**
 - One-time financial assistance to spouses of deceased seafarers.
 - Support for super senior Indian seafarers (aged 75 years and above).
- viii. **Grant-in-Aid:** Provided to Seamen's Clubs under the control of the Principal Officer, Mercantile Marine Department (PO-MMD).

Currently, seafarers must manually submit applications for these welfare schemes. Forms are downloaded from the website and submitted to the SWFS office via post, courier, or in person. The eligibility of applicants is then manually verified against an approved checklist before benefits are processed.

2. **Gratuity Scheme:** Under a bi-partite agreement between the Indian National Shipowners' Association (INSA) and Seafarers' Unions, arrangements for seafarers' gratuity deposits have been made. Indian shipping companies and their manning agents deposit the gratuity amount for rating seafarers with SWFS on a voyage-to-voyage basis. The SWFS serves as the custodian of these funds.

The deposited gratuity amount is recorded under each seafarer's individual account in the 'Gratuity System Software.' Upon retirement, voluntary retirement, or cancellation of the Continuous Discharge Certificate (CDC) book, the seafarer can submit a claim for gratuity withdrawal. The accumulated amount, along with interest, is then disbursed accordingly.

The Seamen's Gratuity Fund is invested as per the Ministry of Finance's investment guidelines. Five percent of the interest income earned on gratuity fund investments is transferred to the Administration Fund for managing seafarers' gratuity accounts. The remaining interest income is credited to individual seafarers' accounts based on the interest rate approved by the Committee of Management.

As of now, SWFS manages the gratuity accounts of approximately 80,000 seafarers, a number expected to rise to 100,000 following the inclusion of officers' rank seafarers in the scheme, effective March 1, 2024.

3. Purpose / Objectives

The purpose of this Request for Proposal (RFP) is to invite qualified System Integrators to develop and implement an Enterprise Resource Planning (ERP) system for the Seafarers' Welfare Fund Society (SWFS). The primary objective of this project is to automate key activities within SWFS,

covering essential functional, financial, and managerial areas, along with a dedicated web portal.

This initiative is a strategic step by SWFS to enhance operational efficiency by modernizing its core activities. The existing system, which is a combination of manual processes and digitalized components, was developed to manage the Gratuity and Welfare Schemes. However, it has been facing several limitations due to outdated software features that were originally designed in the early 2000s. These technological constraints hinder efficiency, scalability, and seamless integration, making it imperative to upgrade to a modern, automated system. Recognizing these limitations, SWFS aims to introduce automation to streamline operations, minimize manual efforts, and address inefficiencies. Upgrading to a modern, automated system will improve overall efficiency, reduce errors, and offer a more user-friendly experience for all stakeholders. The selected System Integrators will also be responsible for the operation and maintenance of the platform for two years following a one-year warranty period, ensuring its continued effectiveness in supporting SWFS's business needs.

A fully automated system with seamless workflows among various stakeholders is crucial for the efficient execution of key activities. Specifically, automating the Application Receipt and Processing functions within SWFS will significantly streamline operations, reducing the time and effort required for management. Additionally, automation will help mitigate errors inherent in manual financial processes. By implementing a well-designed digital platform, SWFS can operate more efficiently as a cohesive entity. Most importantly, end-to-end workflow automation will ensure the timely disbursement of financial benefits to eligible beneficiaries, reinforcing SWFS's commitment to operational excellence and stakeholder welfare.

4. Scope of Work

The proposed scope of work encompasses the development of an Enterprise Resource Planning (ERP) system that aims to automate SWFS's business processes. Additionally, the platform will support user logins for SWFS staff, facilitating administrative tasks and providing access to a robust dashboard that presents real-time data and analytics. To ensure data security and accessibility, the system will employ cloud storage, enabling secure storage and backup of critical business data. The scope also includes the development of a dedicated website for the ERP system of SWFS, along with a comprehensive network and infrastructure setup to support its operations. Disaster recovery (DR) should leverage geo-redundant cloud DR solutions with multi-region failover (instead of traditional DC-DR models) and ensure capabilities to ensure business continuity in case of any disruptions. The proposed ERP system will offer an all-encompassing, user-friendly, and technologically advanced solution to elevate efficiency and enhance the overall operational experiences at SWFS.

Number of Welfare Schemes	Approx. 2500 applications per year.
Number of Gratuity Schemes	Approx. 800 application per year
Number of users for digital signatures	Max. 1500 in a phased manner varying necessities of 500 plus RPSL users

The detailed scope outlines the development and implementation of a robust and fully integrated ERP system for the Seafarer's Welfare Fund Society (SWFS), designed to streamline operations and enhance efficiency. The new system should work seamlessly without any dependencies on the existing applications such as the legacy gratuity management software and Tally software for account maintenance. It encompasses the following components:

- I. **Complete automation of various Welfare Scheme applications and their processing**
 - a. Seafarers to submit application for schemes.
 - b. Responsible officers to record the applications.
 - c. Responsible officers to scrutinize, verify and accept the application.
 - d. Seafarers to know the status of their applications and

- e. Disbursement of benefit funds to eligible applicants
- f. Facility to add approved welfare schemes in future as required

II. Complete automation of Gratuity Scheme application and their processing

- a. Seafarers to apply for gratuity claim.
- b. Claim of Gratuity Dues (for Seafarer)
- c. Claim of Gratuity Dues (in case of Death)
- d. Responsible officers to record and process the applications.
- e. Disbursement of claims
- f. Collection of gratuity dues from Shipping Companies/ RPS/ other contributors

III. Accounting Section (To check cashflow through various contributors and beneficiaries)

- a. Maintenance of accounts for Welfare Schemes by SWFS staff.
- b. Maintenance of accounts for Gratuity Schemes by SWFS staff.
- c. The fund management of SWFS includes the following activities:
 - Collection towards Seafarer's Gratuity Fund
 - Collection towards welfare contributions
 - Interest on Investments
 - Levy received from Government shipping office to Welfare funds.
 - Gratuity Payments to seafarers on retirement or on cancellation of CDC
 - Investment of Amount collected towards Gratuity and Welfare Funds
 - Utilization towards Welfare schemes & ex-gratia payments
 - Interest amount transferred to Nabik Griha Samiti, Kolkata
 - Administrative Expenses
 - Capital Procurement

IV. Administration Section

- a. MIS Dashboard:
 - Centralized monitoring of application statuses, fund utilization, and compliance metrics.
 - Real-time analytics and exportable reports.
- b. Mobile Application:
 - User-friendly mobile app for seafarers to manage applications and track benefits.
 - Admin app for officers to access approvals and updates on the go.
- c. SWFS Website: Modern, responsive website with public-facing and secure login-enabled sections.
- d. Network Infrastructure: High-speed, secure network with redundancy for uninterrupted access.
- e. Cloud Data Centre and Disaster Recovery (DR):
 - Scalable cloud infrastructure for secure data storage and processing.
 - Automated backup and DR strategies for data protection
- f. Training and Capacity Building for SWFS staff:
 - To ensure the successful adoption and effective utilization of the proposed solution, a comprehensive training and capacity-building program for SWFS staff will be implemented.

V. Requirement Study: The Solution Provider shall conduct a detailed assessment of solution requirements, liaising with SWFS, translating document requirements into system requirements, and preparing the Software Requirements Specification (SRS) using standardized templates.

- i. Bidder shall study the business processes to supplement the understanding gathered from the business processes included in this RFP document before designing and proposing the solution
- ii. A detailed analysis of processes must be done, and functional requirements have to

be identified. Broad-level proposed processes and related functional requirements and specifications are included in later sections of this tender. Department manuals and existing processes and related inefficiencies will be shared with the bidder after signing of contract.

- iii. As part of the preparation of SRS the selected Bidder shall be responsible for preparing and submitting detailed requirement specification documents as per IEEE or equivalent standards.
- iv. Bidder is required to update the FRS and SRS as and when any enhancements / modifications are made to the overall solution to ensure that the documentation is always updated for the entire duration of the Contract.
- v. Bidder shall consider these documents as a base, translate these into logical system requirements and develop a systems requirements specifications (SRS) document. Here the bidder is expected to expand on the individual workflows within specific workflows and capture functional logic and check points involved in each workflow. The SRS document should necessarily contain the following details:
 - a. User groups, roles, and types of access
 - b. System attributes
 - c. Use cases for workflows
 - d. Sequence diagrams for workflows identified
 - e. Functional logic and checks expected from the system while execution of the project
 - f. Software components which will be used in ERP
 - g. Interfaces with other DGS systems and external systems
 - h. Security requirements
 - i. Audit and application logging requirements
 - j. Archival requirements
 - k. Migration requirements
 - l. SLA monitoring requirements
 - m. Functional, non-functional, performance and external interface requirements
 - n. Other details which are required to clearly articulate software requirements

- VI. **Design and Development:** The Solution Provider designs the solution architecture and specifications, ensuring compliance with the requirements. Both high-level and low-level design documents are submitted as part of the project deliverables

The ERP system must be architected for high availability, cybersecurity resilience, and optimal performance, ensuring business continuity and seamless integration across all components.

Key Architectural Considerations:

- i. Scalability & Resilience – Designed for horizontal and vertical scalability to support growing transaction volumes and system expansion.
- ii. Zero Trust Security Model – Implement multi-layer security measures, including end-to-end encryption, intrusion detection, and access control mechanisms.
- iii. Compliant & Secure Design – Align with CERT-IN, ISO 27001, NIST, and GDPR security standards.
- iv. Integrated Application Stack:
 - Application Architecture – Secure, microservices-based or modular design.
 - Database Structure & Schema – Optimized for high-performance queries and secure storage.
 - Application Security – Secure coding practices, encryption, and threat monitoring.
 - Deployment Architecture – Ensure deployment is cloud-native only with multi-cloud support (MeitY-approved) cloud platforms without dependence on a specific provider.
 - Role-Based Access Control (RBAC) - Enforce strict authentication and authorization policies.
 - User Interface (UI) & Accessibility - Ensure compliance with GIGW and accessibility standards.

A. Secure Deployment & Scalability

- i. Cloud & On-Premises Flexibility-The ERP must be deployed on a secure cloud environment (AWS, Azure, GCP, CDAC) or an on-premises private cloud as per security and operational needs.
- ii. High Availability & Disaster Recovery – Ensure multi-region, multi-zone deployments with automated failover and geo-redundant data centers for resilience.
- iii. Fault-Tolerant Infrastructure – Implement load balancing, containerized applications (Docker/Kubernetes), and auto-scaling mechanisms.
- iv. Seamless Expansion – Allow dynamic addition of modules, sub-modules, and users without performance degradation.

B. Customization & Modularity

- i. Configurable Modules – The ERP must support modular enhancements without impacting core system stability.
- ii. Plug-and-Play Architecture – Custom features should be deployable as independent add-ons to maintain system integrity and upgradeability.
- iii. Secure Data Management & Integration
- iv. Single-Source Data Entry – Eliminate redundancy through centralized, real-time data synchronization across all modules and locations.
- v. End-to-End Encryption – Encrypt data at rest and in transit using AES-256, TLS 1.3, and other advanced encryption standards.
- vi. API-Driven Integration – Enable secure, standards-based APIs (RESTful, GraphQL) to facilitate integration with internal and external systems.
- vii. Implement cloud-native object storage with automated lifecycle policies.

C. User Access & Secure Interface

- i. Zero-Trust Access Control – Enforce Multi-Factor Authentication (MFA) and Role-Based Access Control (RBAC) for all users.
- ii. Web-Based Interface – Provide browser-based, platform-independent access while allowing offline functionality for designated mobile/desktop applications.
- iii. Compliance with Accessibility Standards – Ensure GIGW compliance and adherence to global UI/UX accessibility standards for an inclusive user experience.
- iv. User Behavior Monitoring – Implement real-time access logs, anomaly detection, and automated security alerts for proactive security monitoring.

Identification, design, and development of complete ERP Solution for process automation of SWFS and the SWFS website along with all other components and functionalities to address SWFS requirements. The documentation provided shall include User Manual, video help and any other necessary documentation.

- VII. **Hosting:** Based on the nature of application, number of concurrent users, quantity of data etc. all workloads run on cloud infrastructure with browser-based or thin-client access, avoiding reliance on specific local hardware for the smooth running of the software. All required client-side hardware/infrastructure/ connectivity shall be ensured by SWFS. Additionally, based on the specific requirements of the application and services that will be running on the server, the solution provider may propose the sizing of the server-side hosting infrastructure such as CPU, Memory, Storage etc. both at the Data Center (DC) and Disaster Recovery (DR). The application must be cloud-native, supporting multi-cloud deployment on MeitY-approved cloud platforms without vendor lock-in. Hosting services shall be the responsibility of the solution provider during the project period.
- VIII. **Testing:** Designing the testing strategy, including test cases, and conducting various testing phases, such as Unit Testing, System Integration Testing, Performance Testing, and User Acceptance Testing (UAT).
- IX. **Security Audit:** Ensuring compliance with CERT-In Security Policy and Guidelines, the Solution Provider coordinates with a CERT-In empaneled auditor for STQC security audit conducted three times throughout the project period.
- X. **Data Migration Requirements:** Where SWFS cannot provide digitized data, the Solution

Provider will offer Data Capture screens to ensure all relevant data is digitized. Data from the existing system should be migrated to the proposed system. If there is no digital data available, the solution provider should design a user-friendly data entry interface. By using these screens, the data entry operators to manually input the required information.

XI. **User Acceptance Testing (UAT) & Go-Live:** Hosting the beta version on a staging server, configuring user roles for SWFS testing team, and supporting UAT. The Solution Provider shall be responsible for preparing test strategy, test cases, and test results, hosting the beta version, demonstrating functionalities, and obtaining user acceptance sign-off

XII. **Software Installation & User Configuration:** Upon SWFS's acceptance and sign-off, the Solution Provider shall be responsible for deploying the ERP should be SaaS-based, leveraging containerized microservices across cloud providers for auto-scaling and portability. This process includes setting up all master data as part of the installation. The Solution Provider shall also configure user roles and privileges, ensuring that authorized users have the necessary access.

XIII. **Training**

The Capacity Building Strategy underscores the importance of an institutional framework in automation initiatives, defining roles for various teams. Multiple training levels, from end-user to system administration, are identified. Project committees and Key Resource Persons (KRPs) coordinate at the ground level. The Solution Provider shall conduct end-user training and system administration training to the persons nominated by SWFS. The solution Provider, in consultation with SWFS, develops the training calendar, schedule, and materials.

- i. Training Requirements: Facilitation of practical training sessions to the new users and the plan for the numbers, locations, facility required in these training sessions.
- ii. Training Plan: Preparation of a detailed Training plan to cover all the training needs mentioned Training programs. List of topics to be covered under various Training programs and get approval of the SWFS on the Final Training topics and plan.
- iii. Preparation of Training Materials: Preparation of a User Manual/Video Help for each function/module of the Software Application to be deployed. Soft copy of the same to be made available to all relevant participants.
- iv. Delivery of Training: The class and the facility required in the training needs to be planned.
- v. Training Site Preparation: The selected Bidder/vendor is to provision for the training and the space at each location should be the responsibility of the SWFS. It may hire an appropriate set up for the same.

Type of Training	Relevant Stakeholder	Frequency of Training
Executive leadership Workshop	Top Management	Once in 3 Months up to Go Live Yearly refresher course – No 2
Functional Heads	Selected users of the module for the envisaged solution	On-Going During the Project for a period of min. 5 working days for each session Yearly refresher course – No 2
Functional users	All other internal users	Hands on Training for a minimum of 7 working Days for each batch to be conducted before go-Live Yearly refresher course – No 2

XIV. **Warranty Support and Operations & Maintenance**

Includes 12 months of warranty support covering bug fixes, performance tuning, and security updates. Following the warranty period, an additional 24 months of AMC support shall be provided, covering identified bugs and ongoing maintenance.

XV. **Project Governance and Management:**

- i. Create and update the project management plan.
- ii. Monitor and execute the project as per the plan.

iii. Manage changes and provide regular status updates.

The details are as follows:

- a. **Overview:**
 - Arrange a project kick-off meeting.
 - Discuss the project charter and define the governance structure.
 - Jointly agree on requirements with SWFS and other stakeholders.
- b. **Resource Deployment:**
 - Propose named resources for key roles, ensuring they are on permanent payroll and available for client discussions.
 - Maintain a skilled team and ensure key personnel devote substantial time to the project.
- c. **Resource Evaluations:** Evaluate the performance of key personnels monthly and provide results to DGS and SWFS.
- d. **Resource Replacement:**
 - Inform SWFS of resignations within a week and promptly find replacements.
 - Ensure replacements meet the original evaluation criteria and provide overlap periods.
- e. **High Resource Attrition:** Explain reasons for high attrition and take necessary actions to improve retention.
- f. **Project Plan:**
 - Define a detailed project plan covering all aspects of the ERP solution.
 - Include a work breakdown structure and timelines for supplementary plans.
 - Provide monthly status reports and manage changes through a change control board.
- g. **Progress Updates:**
 - Implement a comprehensive project management methodology using a Project Management Information System (PMIS).
 - Report on progress, deviations, corrective actions, and other issues.
- h. **Communications Management:** Develop and submit a communication plan for project stakeholders.
- i. **Operations and Maintenance:** Operate and maintain the system for two years post Warranty period, ensuring continuous monitoring and reporting of service levels.

5. Functional coverage of the ERP System, not limited to FRS and SRS.

For Welfare Schemes – The system shall have provision for	
Online Application by Seafarer	All the application forms should be digitally available on this interface to the beneficiaries, along with provision to submit the necessary proof documents digitally as applicable to the respective welfare scheme being applied.
Eligibility assessment by responsible officers	• After the online registration of applicant, Eligibility assessment of the submitted application and document verification shall be completed through the ERP portal by the Welfare section of SWFS. The SWFS staff shall be able to update the status of the application as per the checklist for the applied welfare scheme. • The officer/ assistant can resend/ reject the application in case of any shortcomings in the documents submitted by the applicant.
Storage for Maintenance of Records	The ERP system shall be capable to store the records of successful application and beneficiaries per welfare scheme.
Application Status check for	The applicant/ beneficiary should have the access to check or track the status of their application

Seafarers	
For Gratuity Schemes – The system shall have provision for	
Collection of Gratuity from Shipping Companies	
Online Application by Beneficiary in need	All the application forms should be digitally available along with provision to accept the necessary proof documents digitally as applicable to the Gratuity scheme being applied.
Application Status check	The applicant/ beneficiary should have the access to check or track the status of their application
Claim of Gratuity Dues (for seafarer)	
Online Application by Beneficiary in need	All the application forms should be digitally available along with provision to accept the necessary proof documents digitally as applicable to the Gratuity scheme being applied.
Application Status check	The applicant/ beneficiary should have the access to check or track the status of their application
Claim of Gratuity Dues (in death cases)	
Online Application by Beneficiary	All the application forms should be digitally available along with provision to accept the necessary proof documents digitally as applicable to the Gratuity scheme being applied.
Application Status check	The applicant/ beneficiary should have the access to check or track the status of their application
Accounting Section	
Software for accounting and fund management	Currently, Tally ERP software is being used, it is imperative that in the proposed ERP software a dedicated software for account maintenance and for process verification for transfer of funds from SWFS bank. An automated system can be developed for finance management having the following functionalities: - Records, monitors & maintains accounting and financial information of SWFS. - Automate Periodic Postings. - Track income & expenses of Gratuity fund, welfare fund & Administration fund. - Manage GST return filings. - Facilitate preparation of yearly budget - Facility for budget revisions and reappropriation. - Manage Administrative expenses budget
Dedicated Payment	A dedicated payment gateway for transfer of funds after due process approval for various welfare schemes, gratuity payment to seafarers and administrative

Gateway for SWFS	expenses payment from designated bank account of SWFS to bank account of applicant/ beneficiary.
Automation of Fund Management	• Facility for shipping companies to pay the gratuity contributions and welfare scheme contributions. • Capture and record contributions from shipping companies towards gratuity and welfare schemes. • Support direct deposit by shipping companies into the society's bank accounts. • Facilitate shipping companies to share statements with remittance information. • Automatic reconciliation of contributions. • Facility for government shipping company to transfer the levy fees. • Manage Gratuity and Welfare fund accounts separately. • Track collections from shipping companies and levy fees. • Implement investment management based on Ministry of Finance guidelines. • Provide a secure mechanism to transfer funds between different accounts, such as from the main account to the Fund Management account. • Monitor fund utilization against schemes. • Automatically calculate and transfer 5% of interest income from the Gratuity investment to the administrative fund. • Transfer excess funds to Fund Management Account for investments. • Record and track capital procurements made by the society. • Finance Management • Administration Fund Management
Administration Section	
MIS Dashboard	Provision SWFS staff to check the status of application for all welfare and gratuity schemes and other administrative activities of the SWFS
LMS	Leave Management System for SWFS staff
SMS Gateway	SMS Gateway to alert beneficiaries/applicants about the status updates of their application for all welfare and gratuity schemes.
Networking Infrastructure	The scope for Network Infrastructure encompasses the establishment of a robust networking infrastructure within the SWFS. Network infrastructure must be cloud-based with virtual networking (SD-WAN, VPN, and cloud-native firewalls). The System Integrator shall undertake the planning, deployment, and maintenance of the networking solution to meet the specific requirements of the SWFS.

The above functions and processes of streamlining and automation of SWFS by development of ERP processes as follows:

- i. **Digital Centralized Portal:** A user-friendly web portal will be developed to enable beneficiaries to submit applications online, eliminating the need for physical submissions via post or in-person visits.
- ii. **Automated Fund Allocation & Verification:** Ensure that funds received from shipping

companies are automatically categorized under the respective seafarer's account. Incorporate business rules within the ERP system to automatically verify applicant eligibility based on predefined criteria.

- iii. **Document Management System:** Applicants can upload required documents securely, which will be verified digitally by the system, reducing processing time.
- iv. **Workflow Automation:** Streamline approvals with automated notifications to relevant officers for each stage of the process, ensuring accountability and time efficiency. Automate the process for gratuity withdrawal, including retirement/voluntary retirement requests and CDC cancellation verification.
- v. **Real-Time Status Updates:** Provide beneficiaries with updates on application status, improving transparency and reducing inquiries to SWFS.
- vi. **Data Integration:** Link beneficiary data with other modules, such as financial disbursement, to ensure seamless fund allocation once applications are approved.
- vii. **Integrated Financial Module:** Implement an accounting module within the ERP that handles budgeting, financial reporting, GST Filings, and real-time tracking of transactions.
- viii. **Automated Reconciliation:** Enable automatic reconciliation of funds received and disbursed, reducing manual effort and the likelihood of errors.
- ix. **Comprehensive Audit Trail:** Ensure every financial transaction is recorded with a detailed audit trail for compliance and transparency.
- x. **Budgeting and Forecasting Tools:** Provide SWFS with tools to allocate funds effectively for welfare and gratuity schemes based on historical data and projected needs.
- xi. **Website:**
 - a. The ERP will integrate with a responsive and multilingual website that will serve as a public-facing portal for SWFS services.
 - b. This will allow beneficiaries to apply for schemes, upload documents, and track the status of their applications.
 - c. This will also offer comprehensive information about SWFS initiatives, ensuring transparency and accessibility to stakeholders.
- xii. **Maintenance of application/ disbursement Records for legal matters pertaining to SWFS:**
 - a. The ERP will include robust record-keeping functionality to maintain and manage all applications and disbursement records.
 - b. A centralized repository will ensure that data is stored securely and is easily retrievable for audits or legal purposes.
 - c. The system will support advanced search features to enable tracking of historical records efficiently, aiding SWFS in addressing compliance and legal inquiries effectively.
- xiii. **Mobile Application:**
 - a. Develop a mobile application compatible with iOS and Android devices, allowing beneficiaries to apply for schemes, track applications, and receive notifications.
 - b. The application will support features such as application submission, real-time notifications, and status tracking.
 - c. Its user-friendly design will ensure that beneficiaries and employees can engage with SWFS services conveniently, enhancing overall accessibility.

6. Installation, commissioning, monitoring, and maintaining entire IT infrastructure

- I. The bidder shall be responsible for minimum impact to business operations continuity Maximum availability of services to users.
- II. The bidder shall provision, configure, monitor, and maintain the entire cloud-based IT infrastructure required for the functioning of the solution. All infrastructure must be provisioned in the cloud, avoiding any hardware procurement.
- III. IT infrastructure deployed should be dedicated for the project and bidder shall not be used for any other purpose.
- IV. All IT infrastructure for the solution shall be provisioned in the cloud. No on-premises infrastructure should be required.
- V. Bidder shall ensure warranties/ASCs/AMCs are procured for all the IT components for entire duration of the project. For all components the support from OEM to be obtained for

prescribed components. There would be a mechanism to verify these details on annual basis or as required by SWFS. Bidder shall warrant that the infrastructure procured for Project shall have no defects arising from design or workmanship or any act or omission. The warranty shall remain valid for period of five years from the date of "Go-Live" of the Solution.

- VI. Bidder shall replace any parts/components of the IT Infrastructure supplied for project if the components are defective and during the entire warranty period bidder shall apply all the latest upgrades/patches/releases for the software after appropriate testing
- VII. Bidders are to prepare and submit along with their technical proposal, the details of methodologies and computations for sizing and capacity of storage, compute, routers, switches, Internet facing IPS, backup, tape libraries, sizing of security appliances and their compute requirements.
- VIII. The solution being deployed is expected to be hosted and running at following key physical infrastructure facilities. These are as given below:
 - i. Data Centre: This will be cloud based primary site for hosting the central system supporting the entire solution. This will include live production, testing and development environments.
 - ii. Disaster Recovery Site: This will be a fully functional cloud-based disaster recovery center which will be used in case of disaster.
- IX. The responsibility shall include configuring and provisioning cloud-based infrastructure. Bidder shall also provide staff, technical and supervisory, in sufficient numbers to operate and manage the functioning of DC and DR at desired service levels.
- X. The bidder must perform an independent assessment of the infrastructure requirements for proposed system and provide a detailed BOM for the proposed infrastructure in line with the requirements of the project and performance on service level agreements. The quantities in detailed BOM after assessment may vary from the Indicative Bill of material in RFP. DGS/SWFS reserves the right to add, delete, or modify the quantities in BOM basis the requirement during the assessment.

Data center and Disaster Recovery center

- A. Bidder shall host the entire application centrally at the data center. The core infrastructure shall provide:
 - i. Performance i.e., the system shall provide fast and steady response times (Quality of Service). The speed and efficiency of the system shall not be affected with growing volumes, especially during search operations, reporting, MIS, online processes and batch processes.
 - ii. Availability i.e., all components shall provide adequate redundancy with no single point of failure to ensure high availability.
 - iii. The systems shall be designed for 24x7 operations and meet all SLA requirements. Designing for availability assumes that the systems will fail, and therefore the systems must be configured to recover from component or server failures with minimum application outage.
 - iv. Version Control and Management i.e., the system shall have versioning features to track, document and process revisions made in the system
- B. The cloud hosting shall include the following:
 - i. All compute infrastructure like web servers (VMs), application servers (VMs), database servers (VMs), etc.
 - ii. Software Licenses (Database, Application, VPN Clients, etc.)
 - iii. Cloud based data storage
 - iv. Backup Solution (including VMs and software)
 - v. Networking components like high availability switches, routers, firewalls, etc.
 - vi. Load Balancing components
 - vii. Any other components required for functioning of the solution
- C. Bidder shall carry out DR drill minimum once every year.
- D. The bidder will be responsible for all the technology, infrastructure at these sites over the period of the contract.

E. Replication technique

- i. All data should be replicated between DC and DRC. There shall be no data inconsistencies issues with either data Centre sites. However, during the change from Primary DC to DR or vice-versa (regular planned changes), there should not be any data loss.
- ii. Recovery Time and Point Objectives (RTO/RPO) Alignment
The CSP shall ensure that the Recovery Point Objective (RPO) is maintained at 15 minutes or less and the Recovery Time Objective (RTO) does not exceed 4 hours. If the proposed solution achieves an RTO of 2 hours, as mentioned earlier, it should be explicitly validated against business requirements.
- iii. PDC and DRC shall be multi-cloud enabled and should be designed to operate in active-active or active-passive mode across different cloud providers to ensure high availability and failover flexibility.
- iv. The connectivity between both sites should ensure the replication works seamless with no minimal data loss.
- v. No Data Loss During Planned Switchovers - The CSP shall ensure that during regular planned changes (switching from Primary Data Center (DC) to Disaster Recovery (DR) and vice versa), there shall be no data loss. The replication mechanism should be designed to guarantee zero data loss during controlled failovers
- vi. Replication should ensure that there are no data inconsistencies on both application as well as storage level. There shall be asynchronous replication of data between Primary DC and DR and the CSP will be responsible for sizing and providing the DC-DR replication link so as to meet the RTO and the RPO requirements.
- vii. In event of disaster, DRC should be brought up as primary site within the defined timelines
- viii. Optimized Compute Utilization at DR Site
During normal operations, the DR site shall remain in standby mode with only the essential compute resources needed for functional readiness. Upon failover, the compute environment must dynamically scale up to match the primary DC's capacity, ensuring seamless transition and minimal downtime while optimizing costs.
- ix. Defined Pre-Requisites for Routing Requests to DR Site - The CSP must define and share a comprehensive list of pre-requisites and technical configurations necessary for routing requests to the DR site. This includes network routing dependencies, security requirements, load balancer configurations, and necessary automation steps to ensure a smooth transition in case of failover.
- x. The applications infrastructure provisioned in DRC shall be capable to handle minimum 100% load at any point in time.
- xi. Ensure that data replication, backup, and storage solutions are fully cloud-native and not tied to traditional physical storage architecture.
- xii. The infrastructure by the bidder must be designed to avoid a "single point of failure" with redundant components to eliminate system outage.
- xiii. The proposed infrastructure should have high availability i.e., there should be no disruption in services on account of routine maintenance procedures, troubleshooting, loading hardware and software revisions, patches, etc.
- xiv. Services shall be available with at least 99.5% availability on the infrastructure. The bandwidth at the DR shall be scaled up to the level of Data Centre when DR is activated. In the event of a site failover or switchover, DR site will take over the active role, and all requests should be routed through DR site. The pre-requisite to route request to DR should be articulated properly and shared by service provider.
- xv. Application should be hosted on Enterprise-grade cloud-based compute and storage solutions. The installed application instance and the database shall be usable and the same SLAs as DC shall be provided
- xvi. Network Infrastructure and security infrastructure should be complaint with technology and security principles as mentioned later in this tender
- xvii. Bidder shall carry out a detailed assessment of the LAN, WAN and Internet leased line networking requirements considering sufficient redundancy of the proposed system with respect to the scope of work.

- xviii. Officials, as authorized by SWFS, shall be allowed to access the systems or its components including databases, subject to such rights & privileges as SWFS/DGS may decide from time to time for the purpose of testing, audit, certification, review, inspection etc.

Overall cloud requirements:

- i. CSP should be empaneled under MeitY's "Provisional Empanelment of Cloud Service Offerings of Cloud Service providers (CSPs)" and successfully complete STQC Audit
- ii. Meet any security requirements published (or to be published) by MeitY or any standards body setup / recognized by Government of India from time to time and notified to the CSP by MeitY as a mandatory standard
- iii. Meet the ever-evolving security requirements as specified by CERT-In (<http://www.cert-in.org.in/>)
- iv. The CSP data center facilities considered for cloud services should be located within India
- v. The cloud infrastructure must adhere to security and compliance standards such as SOC 2, ISO 27017, and NIST, instead of traditional data center tiering models (e.g., Tier III, TIA 942). The provider should ensure a multi-cloud strategy to avoid vendor lock-in.
- vi. The primary DC and the disaster recovery site should be in different seismic zones within India
- vii. The Data Center should be certified for the latest version of ISO 27001:2018 and provide service assurance and effectiveness of Management compliant with SSAE 16 / ISAE 3402 standards

Cloud service requirements:

- i. The cloud services should provide scalable, redundant, dynamic compute and storage across multiple cloud providers to avoid vendor lock-in
- ii. Service shall provide users with the ability to procure and use compute and storage capabilities remotely over the SSL with multi factor authentication.
- iii. Perform an Image backup of Customer VM Image information or support the ability to take an existing running instance or a copy of an instance and import / export the instance into a MeitY-approved image format.
- iv. Configuration and Management of the Virtual Machine shall be enabled via a web browser over the SSL VPN clients only as against the public internet
- v. The bidder must ensure that all security, patch management, vulnerability assessment, and backup tools are cloud-agnostic and not dependent on a specific CSP's tools. Third-party security solutions must be compatible with multiple cloud environments."
- vi. Monitor VM up/down status and resource utilization such as RAM, CPU, Disk, IOPS and network
- vii. The purchaser retains ownership of all virtual machines, templates, clones, and scripts/applications created for the organization's application
- viii. The purchaser retains the right to request full copies of these virtual machines at any time.
- ix. The purchaser retains ownership of loaded business solutions / bespoke software installed on the VMs
- x. Support a secure administration interface - such as SSL/TLS or SSH - for the purchasing organization's designated personnel to remotely administer their virtual instance
- xi. Provide the capability to dynamically allocate virtual machines based on load, with no service interruption
- xii. Provide the capability to copy or clone virtual machines for archiving, troubleshooting, and testing
- xiii. The CSP should provide tools and mechanism to the purchaser or its appointed agency for defining their backup requirements & policy.
- xiv. The bidder must ensure that backup solutions are cloud-agnostic, capable of functioning across multiple cloud providers and integrating with third-party disaster recovery solutions and restore activities (when required) of all the data including but not limited to files, folders, images, system state, databases and enterprise applications in an encrypted manner as per the defined policy.
- xv. The ERP system and its supporting infrastructure must be deployable and fully operational across multiple cloud environments without dependence on proprietary features of a single CSP
- xvi. Transfer data back in-house either on demand or in case of contract or order termination for

- any reason
- xvii. CSP shall not delete any data at the end of the agreement (for a maximum of 45 days beyond the expiry of the Agreement) without the express approval of the purchaser.
 - xviii. Provide capability to perform live migrations (ability to move running VM's) from one host to another.
 - xix. Provide support to all Application Programming Interfaces (APIs) including REST API that CSP develops/provides.
 - xx. CSP should offer fine-grained access controls including role-based access control, use of SSL certificates, or authentication with a multi-factor authentication.
 - xxi. Cloud service should support auditing with features such as what request was made, the source IP address from which the request was made, who made the request, when it was made, and so on.
 - xxii. Purchasing organization should be permitted to bring and upload additional properly licensed non-operating system software for operation in cloud as required for the Purchasing organization solution for use within the Services by installing it directly on a VM.
 - xxiii. The solution must provide auto-scaling compute and storage resources to handle workload spikes dynamically. Cloud-native serverless or containerized workloads should be preferred where applicable, ensuring optimal cost and performance efficiency.
 - xxiv. Provide facility to configure virtual machine of required vCPU, RAM and Disk.
 - xxv. CSP to design the solution for different types of disks like SAS, SSD, etc. based on the application performance / SLA requirements considering the volume growth.
 - xxvi. CSP is responsible for Disaster Recovery Services to ensure continuity of operations in the event of failure of primary data center of the purchasing organization and meet the RPO and RTO requirements. The CSP should offer dashboard to monitor RPO and RTO of cloud infrastructure and systems.
 - xxvii. The Bidder (in consultation with CSP) shall clearly define the procedure for announcing DR based on the proposed DR solution. The Bidder / CSP shall also clearly specify the situations in which disaster shall be announced along with the implications of disaster and the time frame required for migrating to DR. The Bidder / CSP shall plan all the activities to be carried out during the Disaster Recovery Drill and issue a notice to the purchaser at least two weeks before such drill.
 - xxviii. The Bidder / CSP should offer Switchover and switchback of individual applications instead of entire system.
 - xxix. Any lag and/or loss in data replication should be reflected in terms of the business requirements in terms of the defined RTO and RPO impact.
 - xxx. Support replication of data between primary and DR cloud environment
 - xxxi. When the purchaser or Bidder /CSP (with prior approval of the purchaser) scales down the infrastructure services, Bidder / CSP is responsible for deleting or otherwise securing purchaser's content/data prior to VM deletion and in case deleted, shall ensure that the data cannot be forensically recovered.
 - xxxii. All security solutions, including firewall, IPS, DDoS mitigation, antivirus/EDR, WAF, DLP, SIEM, and IAM, must be fully cloud-agnostic and operable across multiple CSPs. No CSP-proprietary security tools should be mandated.

Cloud operational requirements:

- i. Manage the network, storage, server and virtualization layers, to include performance of internal technology refresh cycles applicable to meet the SLAs
- ii. Provide a secure, dual factor method of remote access which allows the purchaser's designated personnel (privileged users) the ability to perform duties on the hosted infrastructure
- iii. Infrastructure upgrades and maintenance should be managed through cloud lifecycle management practices, ensuring seamless updates without financial impact. All the data within it shall be immediately deleted/destroyed and certify the VM and data destruction to the purchaser as per stipulations and shall ensure that the data cannot be forensically recovered.
- iv. Bidder / CSP to perform patch management appropriate to the scope of their control including:
 - Alerts on the upcoming patches via email and management portal, and ability to defer or

- reject patches before they are applied in the next patch cycle
- Patch approved VMs on the next available patch management change window
- Application of automated OS security patches, unless deferred or rejected by purchaser or designated agency
- Send regular approval reminders to purchaser or authorized agency designated email address five (5) days prior to patch cut-off dates
- Bidder / CSP should undertake OS level vulnerability management – all OS images created within the cloud platform are regularly patched with the latest security updates
- v. Provide the artifacts, security policies and procedures demonstrating its compliance with the Security Assessment and Authorization requirements as described in Security Requirements in this RFP.
- vi. Monitor availability of the servers, CSP -supplied operating system & system software, and CSP's network
- vii. The Bidder / CSP is fully responsible for tech refreshes, patch management and other operations of infrastructure with regards to the cloud environment (DC and DR).
- viii. Investigate outages, perform appropriate corrective action to restore the hardware, operating system, and related tools
- ix. CSP should manage CSP provisioned infrastructure including VMs as per the ITIL or equivalent industry standards.
- x. Comply with technology refresh requirements as mandated by CERT-IN and MeitY
- xi. Software within the CSP's scope will never be more than one version behind unless deferred or rejected by MeitY / Purchaser / Purchaser's authorized agency.

Cloud management reporting requirements:

- i. Provide service level management reports (as per the service levels agreed in the Service Level Agreement between the purchaser and the CSP)
- ii. description of major outages (including description of root-cause and fix) resulting in greater than 1-hour of unscheduled downtime within a month
- iii. Helpdesk tickets reports submitted
- iv. Monthly and quarterly utilization reports (peak and average volumetric details)
- v. CSP should provide a portal for the purchaser (administration role) which should provide data related to:
 - Utilization reports (with threshold limits defined by the user) and SLA reports
 - Cloud service usage
 - Helpdesk and tickets
 - User profile management
- vi. The Bidder should set the baseline threshold limits for cloud infra utilization.
- vii. In the event of cloud infra utilization breaching the baseline threshold limits, the CSP is required to notify the purchaser and Bidder with adequate justifications for increasing baseline capacity.
- viii. Installation and commissioning of Servers as per solution requirement.
- ix. Installation and provisioning of Storage and backup as per solution requirement.
- x. Installation and commissioning of Software (OS/VM/backup software) along with relevant and requisite patches but not limited to.
 - Installation and commissioning of requisite Clusters for High Availability.
 - Installation and commissioning of Network and Security equipment for providing secured network environment.
 - Liaison with Network Bandwidth Service Provider for Link provisioning and commissioning.

Scope of work for infrastructure provisioning at on-cloud disaster recovery center includes the followings:

- i. The entire DR setup must be cloud-hosted with virtualized security perimeters, identity-based access controls, and zero-trust architecture. The solution should allow for seamless failover and automated recovery without reliance on physical locations.
- ii. Bidder to ensure scalability of the DR cloud environment considering the future growth for next 5 -7 years.

- iii. All the VM, OS, DB, Middleware, application, etc version should be identical at DC and DR.

7. Methodologies to ensure Data Security & Confidentiality

A. Cybersecurity Compliance and Best Practices

- i. Cloud Security: Implement robust cloud security protocols to safeguard sensitive data during transmission and storage. Utilize industry-approved encryption and access control mechanisms.
- ii. Data Encryption & Access Control: Secure data in transit using SSL/TLS encryption. Enforce strict role-based access control (RBAC) with authentication and authorization policies.
- iii. Regulatory Compliance: Ensure adherence to data protection and privacy regulations such as GDPR, DPDP, and ISO 27001, along with industry standards for information security.
- iv. Security Audits & Testing: Conduct periodic security assessments, including penetration testing and vulnerability scans, to proactively mitigate risks.
- v. Network Security Compliance: Align security measures with established frameworks, including CERT-IN guidelines, to maintain compliance and resilience.
- vi. Policy Updates: Continuously review and update security policies to address evolving cyber threats and industry standards.

B. Network Security Measures

- i. Firewalls:
 - Deploy firewalls at network perimeters to regulate inbound and outbound traffic.
 - Implement stateful inspection firewalls for deep packet analysis based on source, destination, and protocol.
 - Utilize application-layer firewalls for filtering traffic specific to ERP functionalities.
- ii. Role-Based Single Sign-On (SSO):
 - Implement centralized authentication via SSO to ensure secure and efficient access management.
 - Enforce role-based access control (RBAC) policies for authentication, authorization, and accounting (AAA).

C. Data Center Security & Storage Management

- i. Data Storage & Redundancy:
 - The ERP data management should be fully cloud-based with scalable storage, ensuring compliance with security and redundancy requirements.
 - Implement RAID configurations for disk redundancy and mirroring for data replication to enhance resilience.
- ii. Data Backup & Disaster Recovery:
 - Deploy automated backup solutions with secure on-site and offsite replication for business continuity.
 - Establish archiving mechanisms for historical data management in compliance with regulatory standards.

D. Data Retrieval & Performance Optimization

Implement optimized data retrieval mechanisms for fast and efficient access, ensuring application responsiveness and minimal downtime.

E. Network Monitoring & Threat Detection

- i. Continuous Network Monitoring: Implement real-time network monitoring tools to detect anomalies and security incidents proactively.
- ii. Security Tools: Deploy advanced security solutions such as Intrusion Detection Systems (IDS), Network Traffic Analysis (NTA), and Security Information and Event Management (SIEM) for comprehensive network activity analysis.

F. Business Continuity & Disaster Recovery (BCP & DR)

- i. Comprehensive BCP & DR Strategy: Establish a structured plan to minimize disruptions and ensure operational resilience.
- ii. Recovery Objectives: Define Recovery Time Objectives (RTO) and Recovery Point Objectives (RPO) for mission-critical systems and data hosted within the data center.
- iii. Redundant Infrastructure:

- iv. Implement failover mechanisms for critical ERP components.
- v. Ensure real-time data replication for rapid disaster recovery.
- vi. Regular DR Testing: Conduct periodic disaster recovery drills and failover simulations to validate the effectiveness of the recovery strategy.
- vii. Stakeholder Communication & Escalation Protocols: Establish clear communication channels to notify key stakeholders and initiate recovery procedures in case of disruptions.
- viii. Continuous Plan Updates: Maintain and periodically update the BCP & DR plan to reflect changes in infrastructure, risks, and business requirements.

G. Disaster Recovery Architecture & Security

- i. Multi-Factor Authentication (MFA): Implement Key cloak (SSO & MFA) integrated with DIGIT to enhance authentication security.
- ii. Enforce multi-factor authentication for critical access points to prevent unauthorized access.

H. Data Protection & Security

- i. Encryption Standards: Enable encryption for data at rest and in transit using AES and RSA encryption algorithms. Secure data transmissions via HTTPS, SSH, and SSL/TLS protocols.
- ii. Virtual Private Networks (VPNs): Secure remote access using VPN solutions with IPsec or SSL/TLS encryption for authenticated communication between remote users and the ERP network.

I. Data Privacy & Anonymization

- i. Data Masking & Anonymization:
 - Utilize PostgreSQL for table-level and column-level data anonymization.
 - Leverage PostgreSQL's built-in security features to ensure compliance with data privacy regulations.

J. Security Monitoring & Incident Response

- i. SIEM Implementation: Utilize SIEM solutions for continuous security monitoring, real-time threat detection, and automated response mechanisms.
- ii. Incident Response Plan:
 - Define clear roles and responsibilities for security incident handling.
 - Establish communication protocols for incident escalation and resolution.
 - Conduct periodic training and simulation exercises to enhance incident response preparedness.
 - Security implementation should be cloud-native with CSPM (Cloud Security Posture Management), SIEM, Zero Trust, and automated compliance monitoring.
 - Ensure that all modular enhancements are delivered through API-driven microservices.

K. Security Assessment Framework

i. Regular Security Assessments & Testing

a. Vulnerability Assessment & Penetration Testing (VAPT)

- To ensure the resilience of the ERP system against cyber threats, a structured Vulnerability Assessment and Penetration Testing (VAPT) will be conducted.
- This assessment will evaluate the security posture of the infrastructure, identify vulnerabilities, and test the system's ability to withstand intrusion attempts.
- The testing methodology will align with industry best practices such as OSSTM (Open-Source Security Testing Methodology Manual) and other standard penetration testing frameworks.

b. Internal Vulnerability Assessment

- Network & Technology Inventory: Identify network ranges, existing port filtering rules, and the technologies in use (e.g., Unix, Spring Boot, Angular/React, PostgreSQL). This will help in optimizing scanning processes and reducing redundancy.
- Automated Vulnerability Scanning: Perform in-depth scans on critical subnets (such as application servers and databases) to detect known security weaknesses.
- False Positive Analysis: Validate scan results to eliminate false positives and focus on actual

security risks.

- **Comprehensive Reporting:** Provide a detailed assessment report with findings, risk categorization, and actionable remediation strategies.
 - c. **External Penetration Testing**
- **Threat Modelling:** Define the scope of testing by simulating real-world cyber threats specific to the organization.
- **Reconnaissance & Survey:**
 - Conduct detailed Internet searches to identify exposed information.
 - Perform non-intrusive DNS queries (WHOIS, reverse lookups, brute-force lookups) to map active systems.
 - Gather configuration data such as IP addresses, OS versions, services, and applications to assess potential risks.
 - **Controlled Exploitation (Intrusion Testing):**
 - Simulate real-world attacks to validate identified vulnerabilities.
 - Attempt controlled privilege escalation within the ERP solution.
 - Evaluate risks of unauthorized access from the internet to the internal network.
- **Reporting & Mitigation:** Provide actionable recommendations to address identified vulnerabilities.
 - ii. **Continuous Security Audits & Compliance Monitoring**
 - a. Conduct periodic security audits to assess compliance with cybersecurity frameworks and regulations.
 - b. Perform regular vulnerability scans, penetration tests, and risk assessments to ensure ongoing security.
 - c. Validate compliance with industry standards such as ISO 27001, CERT-IN, and NIST security guidelines.
 - iii. **Security Awareness & Training Programs**
 - a. **User Awareness Training:** Conduct regular security training sessions to educate employees on cybersecurity risks and best practices.
 - b. **Phishing & Social Engineering Awareness:** Train personnel to identify and respond to phishing attacks and social engineering tactics.
 - c. **Password Hygiene & Access Control:** Promote strong authentication practices, including multi-factor authentication (MFA) and role-based access controls (RBAC).
 - d. **Incident Reporting & Response:** Establish clear protocols for identifying and reporting security incidents.

8. Implementation and Adherence to policies as per DGS

The bidder must apply, obtain and maintain the STQC certification for the project. The cost incurred for obtaining and maintaining the certification shall be borne by the bidder. The bidder shall get the certificate as per timelines defined failing which the subsequent payments will be deferred till the certification is obtained.

Adherence to Standards

The selected SI should ensure that the system complies with defined industry and open standards.

A. Compliance with Open standards

The proposed system would be designed based on open standards and in line with overall system requirements, to provide for good interoperability with multiple platforms and avoid any technology or technology provider lock-in. The system should adhere to all open standards guidelines and other guidelines relevant to the project as issued by GoI

B. Compliance with Standards for State Portal, SSDG and forms Framework

The SI while developing the Application shall take cognizance of the technicalities of the State Portal, SSDG and e-forms framework and any other guidelines issued in this regard by the Government. The SI also has to ensure that all content of the Department's Portal is as per the State Portal Framework guidelines. The web portal must comply with all the Guidelines for Indian Government Websites as defined at the following websites: <http://web.guidelines.gov.in/> and <https://egovstandards.gov.in/guidelines>. It is a mandatory requirement that the developed application be Web1 compliant i.e. it should look good on all resolutions and platforms and be

simple as well as user friendly. Also, the functionalities developed the application should be easily accessible to all intended users.

C. Compliance with Industry Standards

In addition to above, the proposed solution has to be based on and be compliant with industry standards (their latest versions as on date) wherever applicable. This will apply to all the aspects of solution including but not limited to its design, development, security, installation, and testing. The suggested architecture must be scalable and flexible for modular expansion. It should ensure ease of integration with software / applications developed using common industry standards since the solution may be linked and connected to other sources (websites, contents, portals, systems of other Tax administrations etc.) as well as there may be loose/tight integration with backend system of other departments depending on individual service processes. The solution architecture should thus have provision to cater to the evolving requirements of the Department.

The bidder shall ensure to adherence to DGS data and security standards and ensure that the system complies with defined industry and open standards. The security standards mentioned in the below listed documents need to have adhered by the bidder.

- i. Agreement for Model RFP Templates for Implementation Agencies.
- ii. Interoperability Framework for e Governance (IFEG) in India by MeitY
- iii. MeitY Guidelines for Procurement of Cloud Services - V 2.0
- iv. DPD Act 2023
- v. UX Design Guidelines and & Design System for Government application to enhance user experience
- vi. GIGW Guidelines 3.0
- ii. W3C's Web Content and Accessibility Guidelines (WCAG 2.1) Rights of Persons with Disabilities Act, 2016

9. Operation and Maintenance of the platform

- i. Overall monitoring and management of the systems implemented for the Project at DRC and SWFS locations, which includes administration of Infrastructure at DC (Web /Application servers, database servers, storage, etc.), Networks, and all other services ancillary to these facilities to ensure performance and availability requirements of the Project.
- ii. Ensuring compliance to the uptime and performance requirements for Solution performance as defined in the tender.
- iii. Implement Helpdesk solution and provide issue resolution support for addressing the issues reported by the internal users of Information systems deployed in the project.
- iv. 24x7 monitoring & management of availability & security of the infrastructure & assets (including data, network, servers, systems etc.) through the Enterprise Management Solution implemented for Project.
- v. Implementation of a comprehensive security policy in respect of the digital systems and assets, to comply with the requirements of this RFP and conforming to relevant standards.
- vi. Ensuring uptime, performance and other key performance requirements of DGS Project including data backup & business continuity.
- vii. Perform patch management, testing and installation of software upgrades issued by the OEM/vendors from time to time. These patches/upgrades, before being applied on the live infrastructure of the Data Repository at DC, shall be adequately tested. Any downtime caused due to upgrade & patches shall be to the account of the Implementation Agency and it shall not be considered as 'Agreed Service Downtime'.
- viii. Ensure overall security of the solution including installation and management of Antivirus solution for protection of all the servers and systems implemented for the project, application of updates/patches etc. The antivirus patches must be updated and applied from time to time, after appropriate testing of the patches in the staging area.
- ix. Develop the Standard Operating Procedures (SOPs), in accordance with the ISO 27001& ISO 20000/ITIL standards, for Project Infrastructure management. These SOPs shall cover all the aspects including Infrastructure installation, monitoring, management, data backup & restoration, security policy, business continuity & disaster recovery, operational

procedures etc. Bidder shall obtain signoffs on the SOPs from the DGS and SWFS and shall make necessary changes, on a half yearly basis, to the fullest satisfaction of DGS and SWFS.

- x. Preventive maintenance, carrying out the necessary repairs and replacement of parts wherever needed to keep the performance levels of the hardware and equipment in tune with the requirements of the SLA. Such preventive maintenance shall not be attended during working hours of the SWFS, unless inevitable and approved by the DGS and SWFS.
- xi. Reactive maintenance that is intended to troubleshoot the system with sufficient teams
- xii. Performance tuning of system as may be needed to comply with SLA on continuous basis
- xiii. Continuous monitoring & management of network during the working hours & restoration of breakdown within prescribed time limits.
- xiv. Monitoring security and intrusions into the system, which include taking necessary preventive and corrective actions.
- xv. Monitor and record, server & network performance and take corrective actions to ensure performance optimization on a daily basis.
- xvi. Escalation and co-ordination with other vendors for problem resolution wherever required.
- xvii. System administration tasks such as managing the access control system, creating and managing users, taking backups etc.
- xviii. Ensure that daily back-up copies of the data are created and maintained safely.
- xix. Produce and maintain system audit logs on the system for a period agreed to with the DGS and SWFS. On expiry of the said period the audit logs should be archived and stored off-site.
- xx. Regularly review the audit logs for relevant security lapses.
- xxi. Review security advisories (such as bulletins generally available in the industry) on a regular basis to determine vulnerabilities relevant to the information assets and take necessary preventive steps.
- xxii. Supply consumables required for day-to-day operations of the Data Repository at DC. During the warranty/operations/management period, bidder shall not charge any additional cost to the SWFS for replacement of these consumables.
- xxiii. Ensure that persons from SWFS support team are duly trained and prepared in a progressive manner to operate the system on their own, with a view to eventually takeover operations at the end of contractual term
- xxiv. Ensure that all necessary know-how is transferred to SWFS support team in an effective manner to facilitate a smooth transition. Performance metrics for the transition will need to be agreed between the Bidder and DGS
- xxv. Produce and maintain system audit logs on the system for a period agreed to with the DGS. On expiry of the said period, the audit logs should be archived and stored off-site. Location for off-site storing of logs will be the responsibility of the bidder at no additional cost.
- xxvi. Regularly review the audit logs for relevant security lapses and share the same with SWFS.
- xxvii. Review security advisories (such as bulletins generally available in the industry) on a regular basis to determine vulnerabilities relevant to the information assets and take necessary preventive steps.
- xxviii. Supply consumables required for day-to-day operations of the Data Repository at SWFS where this project has been deployed. These consumables include, but not limited to, storage medias, CD/DVDs, data cables etc. During the warranty/operations/ management period, bidder shall not charge any additional cost to DGS for replacement of these consumables.
Supply of Printer cartridges and paper will be the responsibility of SWFS.
- xxix. SI to upgrade the system if any latest version of software is available either nationally or internationally within 45 days of launch in India or 12 months from launch internationally or as agreed with DGS. All updates and patches will be provided at no extra cost to DGS
- xxx. Bidder will ensure that the entire ERP setup is certified and complies with the applicable

standards. The Industry Standards which bidder is required to comply with are given below:

#	Component / Application / System	Prescribed Standard
1	Workflow Design	WPMC / BPM Standard
2	Portal Development	W3C Specification
3	Information Access/Transfer Protocols	SOAP, HTTP/HTTPS
4	Interoperability	Web Services, Open Standard
5	Scanned Documents	TIFF / PDF (Resolution of 600 X 600 dpi)
6	Digital Signature	RSA standards
7	Document Encryption	PKCS specification
8	Information Security	ISO 27001 certified system
9	Operational Integrity & Security Management	ISO 27002 certified system
10	Operation	ISO 9001 certification
11	IT Infrastructure Management	ITIL/ EITM specification
12	Service Management	CMMI / ISO / IEC 20000
13	Project Documentation	IEEE/ISO specifications for documentation

Quality Audits:

- The bidder is expected to align all phases of the project and sustenance as per best industry standards e.g. CMMI, ITIL, ISO 20000, ISO 27001, etc. It is expected that an independent Quality Team of bidder shall independently and regularly audit this system against these standards and processes laid down by bidder. The frequency of such audits must be at least once per half-year for every process. The result of the audit shall be directly shared with DGS and SWFS with an effective action plan for mitigations of observations/non-compliances, if any.
- SWFS/DGS, at its discretion, may also engage independent auditors to audit any/some/all standards/processes. The bidder shall support all such audits as per calendar agreed in advance. The result of the audit shall be shared with the bidder who must provide an effective action plan for mitigations of observations/non-compliances, if any.

10. Resource Requirements

- The BIDDER shall be responsible for sourcing of the personnel and the management of all matters relating to such personnel, to carry out the responsibilities assigned to the BIDDER under the agreement with the BIDDER. In particular, these include:
 - Recruitment of the personnel possessing the qualifications prescribed in the RFP.
 - Training of the personnel.
 - Payment of salaries and benefits to the personnel on time
 - Meeting all statutory obligations / payments arising out of engaging the personnel.
 - Meeting all the liabilities arising out of the acts of the personnel
- Below table gives the indicative number of resources which need to be deployed across locations for this project.

#	Key Resources	No. of Resources	Essential Qualification
1	Project Manager	1	BE / BTech / MCA / MTech and MBA with at least 15 years of total work experience in project management and implementing ERP solution
2	Solution Architect	1	BE / BTech / MCA / MTech / MBA with 10 years' work experience in designing and implementing ERP solutions
3	Database Administrator (DBA)	1	BE / BTech / MCA / MTech / MBA with at least 8 years of Total work experience in database

#	Key Resources	No. of Resources	Essential Qualification
			administration.
4	Cloud Infrastructure specialist	1	Engineer with experience in Cloud Computing technologies (IAAS/ PAAS / SAAS) with at least 7 years of total work experience.
5	Mobile App Expert	1	B.E./B.Tech. /MCA/MTech degree with at least 5 years' work experience in designing, developing, implementing, and maintaining mobile apps.
6	Business Analyst	1	BE / BTech / MCA / MTech and MBA with at least 5 years of Total work experience
7	UI/UX Designers	1	Relevant certifications (e.g., Google UX Design Professional Certificate, Certified User Experience Analyst) in UI/UX design, with at least 5 years of work experience
8	Application Support	1	BE / BTech / MCA / MTech and MBA with at least 3 years of total work experience in ERP/ IT support
9	IT Facility support	1	BE / BTech / MCA / MTech and MBA with at least 3 years of total work experience in Development, Operations and Maintenance Phase
10	Change Management Specialist / Trainer	2	Any graduation degree from recognised university / institute with at least 5 years of experience and at least 2 years of total work experience in all the following: • Conducting large scale awareness, training, promotional programs. • Expertise in development of course material for training on technical area
#	Non-Key Resources	No. of Resources	Essential Qualification
1	To be proposed		

- III. During the course of the contract, if it becomes necessary to replace any of the Key Personnel, the BIDDER shall forthwith with due approval from DGS, provide as a replacement, a person of equivalent or better qualifications and experience than the resource being replaced / or proposed in the bid.
- IV. The team proposed in the proposal should be on the rolls of the bidder(s) at the time of submission of the proposal. For any change of the resource or any resource being proposed for operations, the bidder should have to submit the CV of the resource, at least 2 weeks in advance for DGS to decide on the replacement.

Support Provided by Client

- The client shall provide office space to the Bidder's team. Laptops and peripherals are to be provided to its team by the Bidder.
- The client shall provide access to relevant documentation, reports, budget documents, etc. to enable Bidder's team to prepare a comprehensive vision document.
- The client shall grant necessary access permissions to the Bidder's team to visit DGS office and other parts of the premises for carrying out field visits.
- The client shall make available its conference hall facility which is equipped with Cisco WebEx hardware to carry out offline and online consultations with stakeholders.

11. Workflows of SWFS

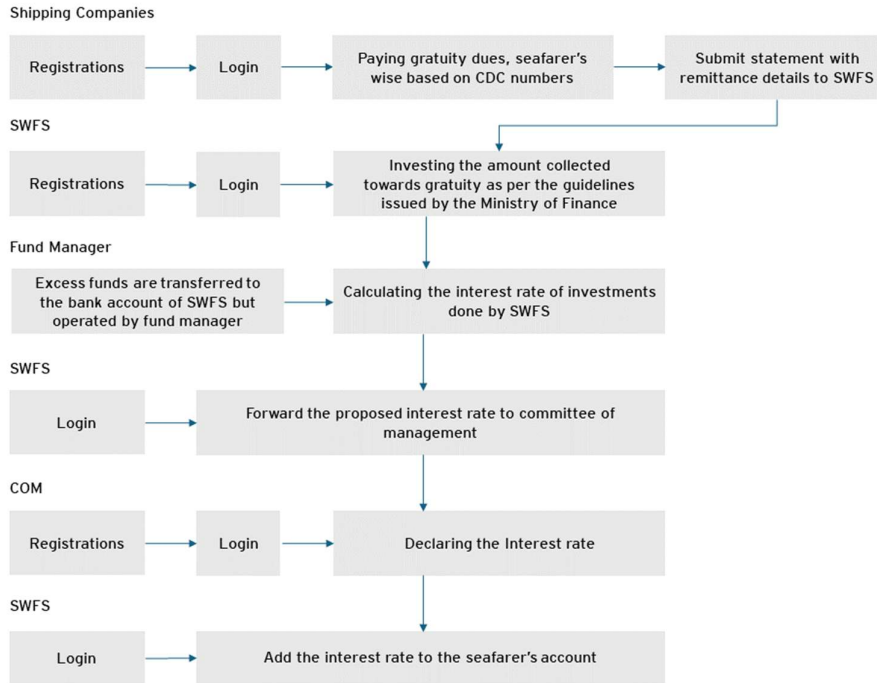


Figure 1 Workflow of deposit of gratuity funds by Shipping Companies

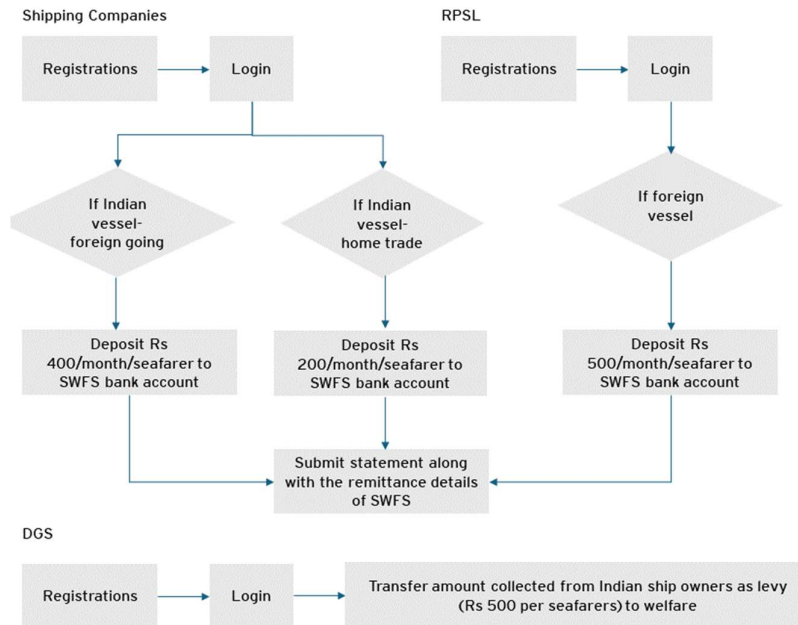


Figure 2: workflow for collection of welfare contributions from shipping companies based on different types of voyages. (Indian Flag - foreign going or home trade and foreign flag foreign going vessels.)

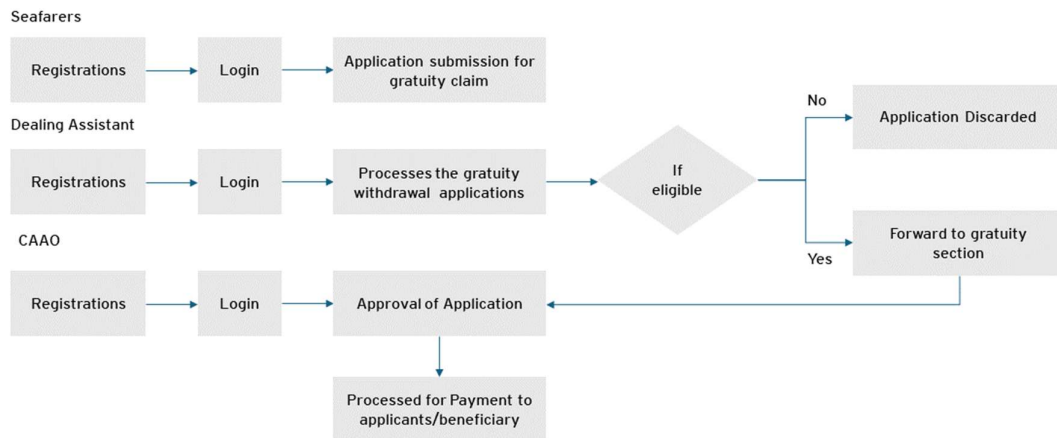


Figure 3: Workflow of application for gratuity claim by beneficiaries.

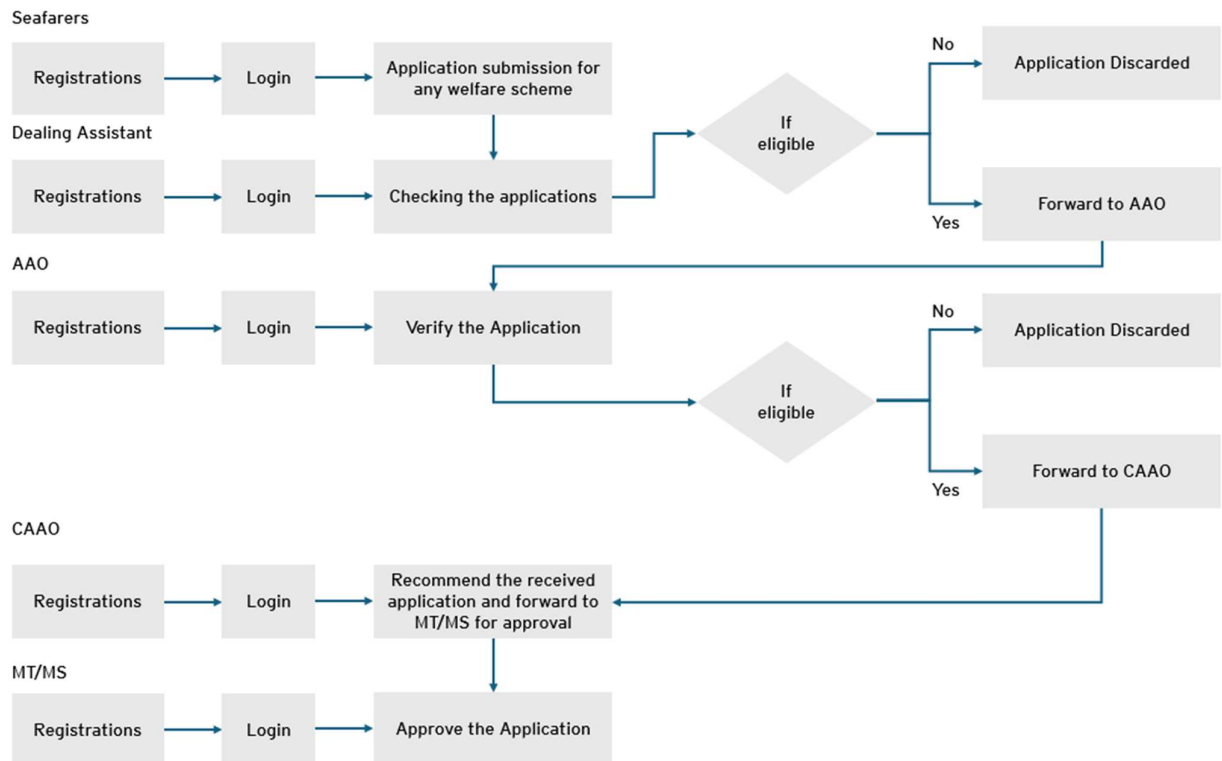


Figure 4: Workflow for application and approval of Welfare Scheme

12. Project Plan and Payment Schedule

12.1 Timeline of Services

This section outlines the development schedules for the fully automated ERP System to be developed for SWFS. These timelines presented in the below Gantt charts. The system integrator is expected to adhere to these timelines with precision to ensure the timely delivery of high-quality software solutions that align with the project's objectives and milestones. This section serves as a crucial reference point for understanding the temporal aspects of the project and will aid in effectively managing and tracking progress throughout the engagement.

Fully Automated ERP System Development for SWFS

Sr. No.	Particulars	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Year 1	Year 2	Year 3
1	Design & Development	M1	M2	M3	M4	M5										
2	UAT						M6									
3	Pilot Testing						M6									
4	Go-Live							M7								
5	STQC & CERT-In Audit							M7	M8							
6	System Stabilization									M9	M10					
7	Change Management											M11	M12			
8	Warranty Period													Y1		
9	O & M														Y2	Y3

12.2 Deliverables

- The bidder has to deliver the following deliverables to DGS as part of an assurance to fulfil the obligations under the Payment schedule & meet the applicable SLA. The table given below may not be exhaustive and Bidder is responsible to provide all those deliverables which may be specified in this RFP but not listed here and those agreed by the Bidder in response to any request from DGS. The timelines for producing each of these deliverables will be in line and closely linked with the overall project timeline as indicated in the table above.
- Any conflict with respect to project and/or deliverable timelines will have to be resolved by bidder in consultation with DGS and SWFS and approved by DGS. Thereafter the approved timelines will have to be adhered to by bidder, unless specified otherwise. It is to be noted that upon completion of Go-live, bidder is required to submit all the updated system design documents, specifications, source code, application deployment files, user manuals, administration manuals and all other applicable deliverables listed below.
- Following is a brief description of the deliverables & expected submission timelines

Deliverables	Deliverable Description	Expected Timelines (in Months)
D1	Kick-off presentation and/or duly signed agreement	T = 0
D2	Project charter should cover the following: - Setting up of PMIS - Study of scope of work & functional coverage - Detailed project plan - Governance Structure for Project Implementation - Project implementation approach - Detailed Project Plan with work breakdown structure - Delivery schedule - Key milestones - Resource deployment - Change & communication management plan - Change control procedure - Exit management plan - Draft SRS template	T+1
D3	Software Requirements Specifications (SRS) should cover the following:	T+4

Deliverables	Deliverable Description	Expected Timelines (in Months)
	- Detailed requirement captures and analysis - Software requirement - Functional requirement - Flow chart, process workflows and interconnections of each module - Interface specifications - Application security requirements - Mapping of FRS & SRS - Requirements sign-off from SWFS and DGS - List of implemented open-source components, along with compliance sheet as per e-Gov standards - Identify third party interfaces required along with the type / specifications - Finalization of data analysis tools and techniques for output MIS / reports / parameters - Dashboard design with list of MIS / reports with source of data availability - Detail integration requirements with MIS / Reports / dashboards of inter & intra Ministries (API details, data fields to be shared, data fields required from other ministry systems, process flows, flow charts, design diagrams, etc.)	
D4	System Design & Configuration report should cover the following: - Business Blueprint Document - System Configuration and module wise configuration needs as per the design envisaged - Legacy and Third-party System Integration / interface Report and integration of same with the envisaged solutions - Customization Development Plan and Design / development plan of components of functionalities - High Level Software Design document including Software Architecture design, Logical and Physical Database Design - Low Level Software Design document including Programming Logic, Workflows - Mobile app User Interface Usability Report - Finalization of KPIs / KRAs for Dashboard - Wireframe design of dashboard	T+5 months
D5	Software Deployment report should cover the following: - Complete Source Code with documentation - Test Plans and Test cases (including Unit Test Plan, System / Integration Test Plan, User Acceptance Test Plan, Security Test Plan, Load Test Plan) - Software Testing Documentation (including details of defects / bugs / errors and their resolution) - User Acceptance Test Cases, Test Data and Test Results, User Acceptance Test Scripts, Unit Test Cases, Integration Test Results / Cases - System Integration Test (SIT) Report including Performance Test (PT) Report - Security Test Report - Dashboard and analytical tool deployment with data validation report	T+7months

Deliverables	Deliverable Description	Expected Timelines (in Months)
	Requirement Traceability Matrix (RTM)	
D5.1	- SWFS Dashboard and analytics with user manual and video help - List of MIS / Reports with recommended visualizations - List of external data point integrations with detailed integration process flows and documentation - Data Analysis tools, techniques, and usability documentation	T+ 6 months
D6	Cloud Data centers establishment report should cover the following: - Specifications & Design of Cloud DC & DRC - Installation & Commissioning of Cloud DC & DRC detailed plan	T+3 months
D7	Data migration report should cover the following: - Data migration assessment - Migration & transitioning approach - Detailed data migration plan - Scripts required for importing data that has been migrated - Data back-up and archival process document	T+1 months
D8	Change Management & Training report should cover the following: - Detailed training plan - Communication plan - Training Materials and Curriculums	T+11 months
D9	Change Management & Training completion for UAT report should cover the following: - Training session-wise completion reports - Certification from SWFS officials confirming successful completion of Change Management & Trainings	T+12 months
D10	Data migration completion report should cover the following: - Details of actual data that has been migrated - Detailed methodology used for data migration with flow charts, size of data migrated, data validation reports. - Certificate from SWFS officials confirming successful completion of data migration	T+6 months
D11	Establishment of IT facilities management system should cover the following: - Report on Operationalization of Help desk - Standard Operating Procedures and Operations Manuals - Obtaining Relevant Certifications	T+5 months
D12	Go-live report should cover the following: - UAT sign-off - Complete updated Source Code and updated Deployment script with documentation - Deployment sign-off from SWFS/DGS - User Manuals and System Manuals - Sign-off from SWFS/DGS on Dashboard and Data Analytics requirements - DGS/SWFS approved Security Testing, Load Testing, Unit Testing and System Acceptance report - DB entity relationship diagram - Pending Issues in the system, dependencies	T+7 months

Deliverables	Deliverable Description	Expected Timelines (in Months)
	- Updated System Design documents, specifications for every change request - Updated user Manuals, administration manuals, training manuals - Go-Live Certificate from SWFS/DGS indicating readiness for roll-out with trainings	
D13	Certification of successful completion of system stabilization from DGS/SWFS Certification of SLA monitoring system Third party agency should certify SLA monitoring system	T+11 months
D14	System stabilization report should cover the following: - Report indicating results, observations and action items - Latest source code, application deployment files, configuration files for entire solution - Detailed change description - Sign off from SWFS for pending issues in the system	T+10 months
D15	STQC report and Certificate (Relevant to Mgmt. System, Product Certification (IT & E-Gov)) including GIGW (Guidelines for Indian Government Website) Certificate. Security Audit Certificate from CERT-IN / CERT-IN empaneled agencies	T+8 months
D16	1 year Warranty Support	(T+12) +12 months
D17	2 years O & M SLA Compliance Reports (Monthly) should cover the following: - Performance Monitoring reports for system - SLA Compliance Reports Count of SMS sent - Training session-wise completion reports - Patches / Upgrades of all components - Incremental updates to solution - Change Requests Managed - Issue / Problem / Bugs / Defect Tracker - On-Going Project Updates - Audit / Standard Compliance Reports	{(T+12) +12} + 24 months

12.3 Payment schedule

Payment would be done on the basis of components given in the following tables:

The bidder alone shall invoice all payments only after receiving due approval / acceptance of Deliverables / Services / Goods from DGS or any nominated agency.

SN	Milestone	Timelines (in Months)	Deliverables	Payment Milestone (% of contract value)
1	Kick-off presentation and/or duly signed agreement	T=0		NA
2	- Submission and Acceptance of 'Project charter' – D2 - Submission and Acceptance of 'Data	T+1	D2, D7	5% of project cost

SN	Milestone	Timelines (in Months)	Deliverables	Payment Milestone (% of contract value)
	migration report' D7			
3	Specifications for required Cloud Data Centre and Disaster Recovery Centre – D6	T+3	D6	5% of the project cost
4	Business and system requirements study including interfaces – D3	T+4	D3, D8	5% of the project cost
5	- Solution design including configuration requirements, interface design, etc. – D4 - Establishment of IT facilities management system – D11	T+5	D4, D11	5% of the project cost
6	- Completion of data migration – D10 - DGS Dashboard and analytics with user manual – D5.1	T+6	D10, D5.1	5% of the project cost
7	- Deployment of complete application software with all modules & required functionalities for user acceptance testing - D5 - Full scale deployment of the system at location – D12	T+7	D5, D12	5% of Project cost
8	STQC Certifications and complete security audit – D15	T+8	D15	5% of the project cost
9	Stable operations (SLA compliance) of the system for the 2 months post full scale deployment- D14	T+10	D14	5% of the project cost
8	- Submission of change management plan covering training and transitioning requirements – D8 - Certification of successful completion of system stabilization from DGS/SWFS. Certification of SLA monitoring system – D13	T+11	D8, D13	5% of project
9	Completion of change management activities including training as required for UAT – D9	T+12	D9	5% of the project cost
12	1 year Warranty Support – D16	(T+12) +12	D16	Nil
13	Payment every 3 months for next 2 years (O & M Phase)- D17	{(T+12) +12} + 24	D17	50% of the cost. (Equal payout in quarters each year at the end of the quarter)

All the deliverables should be as per the mentioned timeline for successful payment.

12.4 Terms of payment

- In consideration of the obligations undertaken by the bidder under this Agreement and subject to the provisions of this Agreement, DGS shall pay the bidder for successful delivery of Services / Deliverables / Goods and System in pursuance of this Agreement, in accordance with the Terms of Payment Schedule set out in this clause.
- DGS shall not be required to make any payments in respect of the Services, Deliverables,

obligations and scope of work mentioned in the RFP and Agreement other than those covered in the table as per Payment Schedule. For the avoidance of doubt, it is expressly clarified that the payments shall be deemed to include all ancillary and incidental costs and charges arising in the course of performance of obligations under the RFP and Agreement including consultancy charges, infrastructure costs, project costs, implementation and management charges and all other related costs including taxes which are addressed in this Clause.

12.5 Invoicing and settlement

- i. The bidder shall submit its invoices in accordance with the following principles:
 - a. Generally, and unless otherwise agreed in writing between the Parties, the bidder shall raise an invoice as per scheduled payment milestones; and
 - b. Any invoice presented in accordance with this Clause shall be in a form agreed with DGS.
- ii. The bidder alone shall invoice all payments only after receiving due approval / acceptance of Deliverables / Services / Goods from DGS or any nominated agency. Such invoices shall be correct and accurate and shall be raised in a timely manner.
- iii. Subject to accomplishment to obligations of bidder and delivery of Deliverables / Services / Goods to the satisfaction of DGS, payment shall be made by DGS within 45 working days of the receipt of invoice along with supporting documents.
- iv. Notwithstanding anything contained in clause (III) above, DGS shall be entitled to delay or withhold payment of any invoice or part of it where DGS disputes such invoice or part of it provided that such dispute is bona fide. The withheld amount shall be limited to that which is in dispute. A notice of such withholding shall be provided within 10 days of receipt of the applicable invoice.
- v. The bidder shall be solely responsible to make payment to its personnel, sub-contractors, OEMs, third parties.

12.6 Taxes

- i. DGS shall be responsible for withholding taxes from the amounts due and payable to the bidder wherever applicable under extant law. The bidder shall pay for all taxes in connection with this Agreement, SLAs, scope of work and any other engagement required to be undertaken as a part of this Agreement, including, but not limited to, property, sales, use, excise, value-added, goods and services, consumption and other similar taxes or duties
- ii. DGS shall provide the bidder with the original tax receipt of any withholding taxes paid by DGS or its nominated agencies on payments under this Agreement within reasonable time after payment. The bidder agrees to reimburse and hold DGS or its nominated agencies harmless from and against any claims, losses, expenses (including attorney fees, court fees) etc. arising out of deficiency (including penalties and interest) in payment of taxes that is the responsibility of the bidder.
- iii. If, after the date of this Agreement, there is any unforeseen change in the levies or rate of levy under the applicable laws of India with respect to indirect taxes and duties, which are directly payable by the bidder for providing the Deliverables/Services i.e. service tax or any such other applicable tax from time to time, which increase or decreases the cost incurred by the bidder in performing the Services, then the remuneration and reimbursable expense otherwise payable by the DGS under this Agreement shall be increased or decreased accordingly by correspondence between the Parties hereto, and corresponding adjustments shall be made. However, in case of any new or fresh tax or levy imposed after submission of the proposal the bidder shall be entitled to reimbursement on submission of proof of payment of such tax or levy.

12.7 Adherence to Deliverables

- i. The bidder has to deliver the deliverables mentioned in Deliverables Schedule to DGS as part of an assurance to fulfil the obligations under the SLA. The table given in Project Timeline & Deliverables Schedule may not be exhaustive and bidder is responsible to provide all those deliverables which may be specified in this RFP but not listed here and those agreed by bidder in response to any request from DGS. The timelines for producing each of these deliverables will be in line and closely linked with the overall project timelines.

- ii. Any conflict with respect to project and/or deliverable timelines will have to be resolved by bidder in consultation with DGS and / or its designated agencies and approved by DGS. Thereafter the approved timelines will have to be adhered to by bidder, unless specified otherwise. It is to be noted that upon completion of Go-live, bidder is required to submit all the updated system design documents, specifications, source code, application deployment files, user manuals, administration manuals and all other applicable deliverables listed in Deliverables Schedule.

Section 6 – Service Level Agreement

1. Structure

This SLA shall operate as a legally binding services agreement specifying terms which apply to the Parties in relation to the provision of the Services by the Bidder to DGS/SWFS and its nominated agencies under the Agreement and the MSA

2. Objectives of SLA

The objective of SLA is to clearly define the expected level of the services being offered by the Bidder (Successful Bidder) to the Purchaser (DGS) for the period of the contract or until the SLA has been amended. SLA defines the responsibility of the successful bidder in ensuring adequate delivery of the deliverables and the services coupled with correctness of the same based on the performance indicators detailed out in this document.

The Bidder shall be required to ensure that the Service Levels which shall ensure the following:

- i. Improving the efficiency of operations for the departments.
- ii. Leveraging the benefits in new system in order to:
 - a. Reduce of manual records and replace with computerized standardized documents.
 - b. Infuse transparency in operations by enabling the stakeholders to have easy access to the records and provision of login ids and biometrics to infuse accountability in operations
 - c. Enable faster request processing in delivery of services with better turnaround time.
 - d. Facilitate automated data transfer with state-wide connectivity to prevent unnecessary duplication & simplify preparation of registers and reports.
 - e. Generate meaningful MIS from the system.
 - f. Provide inbuilt mechanism of security and quality control for crucial dealer data.

To meet the aforementioned objectives the Bidder will provide the Service Levels in accordance with the performance metrics as set out in detail in this. Bidder shall provide services as defined in the scope of work in accordance with the conditions mentioned in Section to ensure adherence to project timelines and error free availability of the services.

3. Details of SLA Penalty Mechanism and Calculations

The MSP will get 100% of Quarterly Payout for the concerned quarter if the performance metrics are complied with for all the parameters and the total SLA score in a quarter is 50 or above. The Bidder will get lesser payment in case of a lower performance exhibited by a SLA score of less than 50. The maximum penalty to be levied is 10% of Quarterly Payout.

The payment will be made by DGS to the bidder on quarterly basis. The quarterly invoice will be submitted by the Bidder to the DGS, who will in turn release the 80% of the payment if there is no dispute and after verification/audit of the invoices and necessary documents, release balance 20% payment.

The Bidder will be eligible for an SLA holiday period wherein the SLAs shall not be applicable. This SLA holiday period will not be more than a quarter from the date of GO-Live of the project, until and unless decided or agreed with DGS. The SLA holiday period is for streamlining the SLA measurement and monitoring process of the project.

The payment and SLA penalty applicability will be against the specific SERVICE LEVEL PARAMETERS depending on the impact. The values will be calculated separately, and payment will be made against invoices raised for the port.

DGS/SWFS reserves the right to modify the SLAs in terms of addition, alteration or deletion of certain parameters, based on mutual consent of all the parties i.e. DGS and BIDDER.

The Penalties will be calculated based on the following table:

S. No.	SLA Score Range	Deductions (Penalties)
Deductions		
1	=50	No Penalty
2	<50 & >=45	0.25% penalty for every point < 50
3	<45 & >=40	0.5% penalty for every point < 50
4	<40	0.75% for every point < 50
Note: The percentage penalty would be calculated on the bill raised by the Bidder for the concerned quarter.		
<i>Example:</i> - SLA Score of 48 will lead to a Penalty of 0.5% (i.e. $2 \times 0.25 = 0.5\%$) - SLA Score of 43 will lead to a Penalty of 3.5% (i.e. $7 \times 0.5 = 3.5\%$) - SLA Score of 38 will lead to a Penalty of 9% (i.e. $12 \times 0.75 = 9\%$)		

Note

- Annual review SLA shall be done by DGS and appropriate modifications/amendments to the SLAs may be carried out.
- Cascading effect (effect on multiple SLA criterions) of failure or non-performance of a particular project component on SLAs shall be avoided.
- Web-based Incident and SLA monitoring tool providing reports against the parameters mentioned below will be used for measurement. DGS may request for supporting documents in certain cases if required. Such tool needs to be deployed after certification from a Third-Party CERT-IN agency such as STQC before Go-live of the project.
- Implementation of a Web-based Project Management Information System (PMIS) for Project progress and ITIL based SLA monitoring and Incident Management (EMS) has to be carried out by before Go-live in order to receive any payment for the project

4. SLA Measurement and Monitoring

4.1 SLA applicable during Implementation Phase

Implementation of a Web-based Project Management Information System (PMIS) for Project progress and SLA monitoring has to be carried out by before Go-live in order to receive any payment for the project.

#	Services	Parameter	Validation	Penalty
1	Adherence to project timelines	Up to 4 calendar weeks delay from the timelines as mentioned in the project timelines Volume	Measurement Tool: Project Management Information	No Penalty

#	Services	Parameter	Validation	Penalty
		Delay beyond 4 weeks	System (PMIS) Periodic Project Progress Reports	Rs. 1,00,000 per week of delay If the delay exceeds more than 12 weeks, DGS may decide to invoke breach clause
2	Substitution of resources from those CVs provided during the technical evaluation	No substitution of resources will be allowed whose CVs to have been provided along with the technical bid for the period 7 months from the commencement of Project (other than unavoidable reasons e.g. death, disability, departure from the firm, etc.)	Request submitted for substitution along with project plan or thereafter	Penalty of 50% of the amount quoted for that resource in the financial bid in case of substitution for other than unavoidable reasons.

4.2 SLA parameters during Operations and Maintenance Period

The key Service Level Agreement required for the ERP for SWFS software's availability, which need to be ensured by the Bidder during the operations and maintenance support period. All complaints shall be lodged with the service desk managed by the BIDDER, which will allot ticket number for each complaint indicating location, function, time of registration and severity of the complaint. Centrally managed web-based ticketing tool for lodging the complaints will be provided by Bidder, as a part of the facilities.

SLA shall become the part of contract between DGS/SWFS and the Bidder. The Bidder has to comply with Service Levels requirements to ensure adherence to quality and availability of services, throughout the period of this contract - for a period of 2 (Two) years. The performance of the support shall be tracked monthly as per the SLA service levels detailed in this section.

Please note that the Bidder shall be responsible for overall monitoring and management. The Bidder shall monitor the uptime of all associated infrastructure components for ERP solutions.

In case of any breach on above stated associated infrastructure uptime, Bidder has to submit an auto generated report from automated measurement tool of all the SLA requirements wherever applicable in this section.

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
Application							
Availability for application functionality							
Availability (uptime) of applications for doing business	>=99%	5	<99% to >= 95%	2.5	<95%	-3	Automated measurement tool to be developed as

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
activities, except during scheduled down time as agreed with the department							part of SLA monitoring tool to provide metric values against this parameter. End-to-end loop back mechanism must be established for checking the availability of services.
Uptime = {1 - [(Application downtime – maintenance Downtime) / (Total Time – Maintenance Downtime)]}							
Time for on-line submission of the electronic forms.	<=5 seconds	2	>5 seconds and <=7 seconds	1	>7 seconds	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Average must be achieved with maximum time till success for 90% or more of the total submissions within the stipulated time							
Web-to-web response time							
Time for uploading data file including xml, txt, etc. (other than images and pdf) on various portals.	<=20 seconds	2	> 20 seconds and <=30 seconds	1	> 30 seconds	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Average must be achieved with maximum time till success for 90% or more of the total uploads within the stipulated time							
Web-to-web response time							
API service availability							
Availability of API services for mobile, portal and other third-party applications	>=99%	2	<99% and >=95%	1	<95%	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
							metric values against this parameter. End-to-end loop back mechanism must be established for checking the availability of services.
Response time for API Service requests							
Time for providing response to the request received	<=5 seconds	2	> 5 seconds and <=7 seconds	1	> 7 seconds	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter. End-to-end loop back mechanism must be established for checking the availability of services.
Application Maintenance							
Time to deliver the application changes as per desired functionality.	Within Agreed timeline	2	NA	NA	Beyond Agreed timeline	-1	Reports regarding the same to be captured through PMIS tool. All requests will be entered in PMIS by the bidder team as per records and provide status against the same
Documentation Management							

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
Maintaining document versioning (SRS, User Training Manual etc.), application version control	at the end of every quarter	1	Up to one week beyond the quarter end date	0.5	more than a week beyond the quarter end date	-1	Reports to be displayed through PMIS tool (and if requested by DGS/ SWFS) and emails to provide these details
Integration and interfacing							
Time to post information to External system in form of messages after the transaction carried out within ERP system	<=10 seconds	2	>10 seconds and <=15 seconds	1	> 15 seconds	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Time to receive and update information in ERP system after receipt of same from External system	<=5 seconds	2	>5 seconds and <=7 seconds	1	> 7 seconds	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Data exchange with external systems							
Time to post information to external system after the transaction carried out within ERP	as agreed at the time of design	2	NA	NA	Beyond agreed timelines	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Time to receive and update information in external system after receipt of same from eGov system	as agreed at the time of design	2	NA	NA	Beyond agreed timelines	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
							against this parameter.
Compute and Storage Infrastructure							
Data Centre Availability							
Uptime of all components at DC, (Network infrastructure related) & DR including but not limited to: · Servers · Storage · Tape Library · SAN · SwITBhes · Routers Any downtime for maintenance shall be with prior written intimation and approval of DGS Uptime = $\{1 - [(Component\ downtime - maintenance\ Downtime) / (Total\ Time - Maintenance\ Downtime)]\}$	$\geq 99.5\%$	3	$< 99.5\%$ and $\geq 99\%$	1	$< 99\%$	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter. End-to-end loop back mechanism must be established for checking the availability of services.
Security Components Availability							
Uptime of all security components for DC and BCP/DR site including but not limited to: · Perimeter Security · Firewall, Network swITBhes etc. Any downtime for maintenance shall be with prior	$> 99\%$	3	$< 99\%$ to $\geq 98\%$	1	$< 98\%$	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter. End-to-end loop back mechanism

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
written intimation and approval of DGS. Uptime = $\{1 - \frac{[(\text{Component downtime} - \text{maintenance Downtime}) / (\text{Total Time} - \text{Maintenance Downtime})]\}$							must be established for checking the availability of services.
Monitoring and management							
IT Infrastructure monitoring solution availability							
Availability of IT Infrastructure Monitoring Tools at the active site.	>99%	2	< 99% to >= 95%	1	<95%	-1	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter. End-to-end loop back mechanism must be established for checking the availability of services.
CPU and RAM Utilization							
Peak CPU and RAM utilization for Application & Database Servers at DC site. The number of such occurrences where in the CPU utilization is more than 80% for a sustained period of more than 4 hours except for scheduled batch processing tasks.	No Breach	2	NA	NA	CPU utilization is more than 80% for a sustained period of more than 4 hours	equal to in Where in is number of such instances in the reporting period	Automated measurement tool to be developed as part of SLA monitoring tool to provide metric values against this parameter. End-to-end loop back mechanism must be established for checking the availability of

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
							services.
Applications Operations Infrastructure							
<i>Tickets / Incident Response time *</i>							
Time taken for sending email response & ticket assignment from the time of registering of request. Must be achieved within agreed timeline for resolution for at least 95% of the cases in a month.	<=1 hrs	2	>1 hrs and <=4 hrs	1	> 4 hrs	-1	Automated measurement tool (reports from ticket management system) to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Resolution for Critical incident	<=2 hours	2	> 2 hours to <= 4 hrs	1	> 4 Hours	-1	Automated measurement tool (reports from ticket management system) to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Resolution for medium level incident	<=4 hours	2	> 4 hours to <= 8 hrs	1	> 8 Hours	-1	Automated measurement tool (reports from ticket management system) to be developed as part of SLA monitoring tool to provide

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
							metric values against this parameter.
Resolution for Low level incident	<= 1 day	2	>1 day to <= 3 days	1	> 3 Days	-1	Automated measurement tool (reports from ticket management system) to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Training and capacity building							
Training Rating							
The training and capacity building satisfaction will be measured by feedback rating given by the trainees during online and face to face training. Average rating must be achieved above the specified rating score for more than 80% of the feedback ratings received	Rating >= 80%	2	Rating <80% and Rating >= 70%	1	Rating < 70%	-1	Feedback rating given by the trainees during online and face to face training and uploaded on PMIS
Training material							
Update of training materials on all portals within 1 week from date of release of modification to software into production environment	Within 1 Week	2	up to 2 weeks	1	more than 2 weeks	-1	Automated measurement tool (reports from PMIS) to be developed as part of SLA monitoring tool to provide metric values against this parameter.
Human Resource availability							

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
Human Resource availability measures the availability of the required skill sets as proposed by the Bidder in its proposal. This parameter shall also take into account the quality of resources in terms of skill set, experience and ability to perform in similar environment besides deployment on the project. In case of replacements, the new resource should be of similar or higher skill set. The skill sets to be taken into account for measuring this parameter includes the following at a minimum:	No Deviation	2	NA	NA	In case of deviations	-1	All deviations would be recorded, and MIS report shall be made available to the DGS and ports via PMIS
- Resource requirements as per Volume I of RFP - Team members for various skills required for carrying out the activities of the project							Occurrences such as national / public holidays, force majeure, labor laws, etc. shall not be considered as an occurrence for deduction
Monthly Project Progress Report							
Submission of monthly progress report including the following:	Within 2 days from month end	2	NA	NA	Greater than 2 days	-1	Automated measurement tool (reports from PMIS) to be developed as part of SLA
- Progress against project plan							

SLA Parameters during Operations and Maintenance Period							
Parameter	Baseline		Lower Performance		Breach		Measurement
	Metric	Score	Metric	Score	Metric	Score	
- Key dependencies							monitoring tool to provide metric values against this parameter.
- Details of non-compliances if any							
- Issues list							
- Activities completed within the reporting period							
- Activities to be completed in the next reporting period							

4.3 Severity definition chart

Severity definition chart is tabulated below for reference

Severity level	Severity Particulars	Service window
Critical	Outage that impacts ≥ 1 Services & Higher Management call	24*7
Medium	Outage that does not impact Services but affects department services	24*7
Low	Upgrade, shifting and preventive maintenance	7am to 7pm (Monday to Friday)

5. SLA Categories

The SLA has been classified into two broad categories as given under.

- Category I: These are system delivery level targets which shall be adhered to during the implementation of the system, these services may be considered as pre-requisites to the service level targets mentioned in the post implementation phase.
- Category II: These are business critical level targets which shall be adhered to post implementation/commissioning of the system. Default on any of the service levels mentioned under this will incur penalties as defined in this section.

The Service level agreement would be valid for the complete period of contract. This SLA may be reviewed and revised according to the procedure detailed in SLA Change Control Mechanism.

5.1 Uptime calculation for the month

- The SWFS would provide a maximum of 04 hours of planned downtime for the preventive maintenance (as part of scheduled downtime) per month per service.
- The downtime for scheduled maintenance (patch application, upgrades – OS, Database, etc.) would need to be mutually agreed between SWFS and the Bidder. To reduce this time, various maintenance activities can be clubbed together with proper planning.

5.2 Cumulative Downtime

- The recording of downtime shall commence at the time of registering the call with bidder for any downtime situation for the equipment.
- Downtime shall end when the problem is rectified, and the application/ service is available to the user.

- iii. Down time will not be considered for following:
- Pre-scheduled preventive maintenance and health checks (Scheduled Downtime).
 - Failover time (30 minutes) in case of cluster environment. Beyond which the service would be considered to be not available, and appropriate penalty shall be imposed on the SI.
 - If the DGS elects to continue the operation of the machine / equipment, when a part of the machine is giving problem and leading to downtime, the commencement of downtime shall be deferred until the DGS releases the machine / equipment to the Bidder for remedial action.

5.3 Exclusions

The bidder shall be exempted from any delays on SLA parameters arising from the delay in approvals, reviews, suggestions etc from the DGS's/SWFS side. Any such delays shall be notified in written by the DGS/SWFS.

6. Non-Adherence to SLA

- i. In case the bidder is unable to adhere to the target levels mentioned in the SLA and the percentage of penalty due to defaults exceeds 5 percent for four consecutive months, then the penalty would be doubled in the fourth month and subsequently till the same is rectified for two consecutive months.
- ii. In case the bidder defaults in the same category for four consecutive months, then the penalty would be doubled in the fourth month and subsequently for that category till the same is rectified for two consecutive months.
- iii. The breach clauses will be relaxed for the two quarters after go-live.

7. Breach of SLA

If the penalty continues for 6 consecutive months for the same category or over 10% across all categories, DGS may invoke breach and terminate the contract. The decision of DGS in this regard shall be final and binding on the bidder, the DGS will treat it as a case of breach of Service Level Agreement. The following steps will be taken in such a case: -

- *DGS issues a show cause notice to the SI.*
- *bidder should reply to the notice within three working days.*
- *If the DGS authorities are not satisfied with the reply, the DGS will initiate termination process.*

8. Monitoring and Auditing

DGS will review the performance of bidder against the SLA parameters each month, or at any periodicity defined in the contract document. The review / audit report will form basis of any action relating to imposing penalty or breach of contract. Any such review / audit can be scheduled or unscheduled. The results will be shared with the bidder as soon as possible. DGS reserves the right to appoint a third-party auditor to validate the SLA.

8.1 Reporting Mechanism

The bidder's representative will submit SLA performance reports from centrally managed web-based SLA monitoring tool in an agreed upon format by the 5th working day of subsequent month of the reporting period. The reports will include "actual versus target" SLA performance, a variance analysis and discussion of appropriate issues or significant events.

8.2 Issue Management Procedures

General

This process provides an appropriate management structure for the orderly consideration and resolution of business and operational issues in the event that quick consensus is not reached between DGS and bidder. It is expected that this pre-defined process will only be used on an exception basis if issues are not resolved at lower management levels.

Issue Management Process

- i. Either DGS or Bidder may raise an issue by documenting the business or technical problem, which presents a reasonably objective summary of both points of view and identifies specific points of disagreement with possible solutions.
- ii. DGS and the SI's representative will determine which committee, or executive level should logically be involved in resolution.
- iii. A meeting or conference call will be conducted to resolve the issue in a timely manner. The documented issues will be distributed to the participants at least 24 hours prior to the discussion if the issue is not an emergency requiring immediate attention.
- iv. The DGS and the Bidder shall develop an interim solution, if required, and subsequently the permanent solution for the problem at hand. The Bidder will then communicate the resolution to all interested parties.
- v. In the event a significant business issue is still unresolved, the arbitration procedures described in the Contract will be used.

9. SLA Change Control

9.1 General

It is acknowledged that this SLA may change as DGS's/ SWFS's business needs evolve over the course of the contract period. As such, this document also defines the following management procedures:

- i. A process for negotiating changes to the SLA.
- ii. An issue management process for documenting and resolving particularly difficult issues.
- iii. DGS/SWFS and Bidder management escalation process to be used in the event that an issue is not being resolved in a timely manner.
- iv. Any changes to the levels of service provided during the term of this agreement will be requested, documented and negotiated in good faith by both parties. Either party can request a change. Changes will be documented as an addendum to this document and consequently the contract.

9.2 SLA Change Process

Both the parties may amend this SLA by mutual agreement in accordance. Changes can be proposed by either party. Normally the forum for negotiating SLA changes will be DGS's/SWFS monthly review meetings.

9.3 Version Control

All negotiated SLA changes will require changing the version control number. As appropriate, minor changes may be accumulated for periodic release (e.g. every quarter) or for release when a critical threshold of change has occurred.

10. Management Escalation Procedures

The purpose of this escalation process is to provide a quick and orderly method of notifying both parties that an issue is not being successfully resolved at the lowest possible management level. Implementing this procedure ensures that DGS and Bidder management are communicating at the appropriate levels. Escalation should take place on an exception basis and only if successful issue resolution cannot be achieved in a reasonable time frame.

- All issues would be raised to the project management team, which is completely responsible for the day-to-day aspects of the implementation. The project management team shall classify the issues based on their severity level and resolve them within appropriate timelines.
- If project management team is unable to resolve an issue, the issue would be escalated to the top management with options/ risks detailed for decision. Top management will make decisions based on the options/ risks presented.
- In case one or both the parties are unsatisfied with the decision of the top management of the DGS, the dispute will be resolved as specified in this RFP

11. Updating of this Agreement

- a) The Parties anticipate that this Agreement shall need to be re-evaluated and modified to account for changes in work environment and technology from time to time. Hence, they hereby agree to revise the terms of the Agreement on an annual basis.
- b) The Parties hereby agree upon the following procedure for revising this Agreement:
 - i. Any and all changes to this Agreement will be initiated in writing between the Buyer and the Implementation Agency, the service levels in this Agreement shall be considered to be standard for the Buyer and shall only be modified if both Parties agree to an appended set of terms and conditions.
 - ii. Only the Buyer or the Bidder may initiate a revision to this Agreement.
 - iii. A notice of the proposed revision ("SLA Change Request") shall be served to the Buyer or the Bidder as the case may be.
 - iv. The SLA Change request would be deemed to be denied in case it is not approved within a period of 45 days.
 - v. In the event that Buyer/Bidder approves of the suggested change the change shall be communicated to all the Parties and the SLA
 - vi. Change request would be appended to the Agreement.

The Buyer shall update and republish the text of Agreement annually to include all the SLA Change Requests that have been appended to the Agreement during the course of the year. Such republished Agreement shall be circulated to all the Parties within <***> days of such change taking place

12. Document History

All revisions made to this Agreement shall be listed in chronological order as per the format set out below and a copy of the same shall be provided to the Parties:

Version	Date	Description of Changes
<***>	<***>	<***>

13. Scope of Services

- a) Bidder shall ensure that Services are available as per the requirements of the project;
- b) Bidder shall provide support services for addressing problems related to the provision of services through the POC. Such POC shall be available over telephone on <***> number / email 24 hours a day, 7 days a week
- c) Bidder guarantees that he shall achieve the Service Levels for the Project;

- d) Bidder shall be liable to Service Credits in case of failure to comply with the Service Levels. However, any delay not attributable to the Implementation Agency shall not be taken into account while computing adherence to the Service Levels.

14. Performance Review

The POC's of both the Buyer and the Implementation Agency shall meet on a quarterly basis to discuss priorities, service levels and system performance. Additional meetings may be held at the request of either the Bidder or the Buyer. The agenda for these meetings shall be as follows:

- a) Service performance.
- b) Review of specific problems/exceptions and priorities; and
- c) Review of the operation of this Agreement and determine corrective action to overcome deficiencies.

15. Indemnities

The Parties agree to indemnify each other under this Agreement in accordance with the terms and principles set out in the MSA.

16. Dispute Resolution

Any dispute, difference or claim arising out of or in connection with the Agreement which is not resolved amicably shall be decided in accordance with the dispute resolution procedure as set out in the MSA.

17. Miscellaneous

a) Assignment and Charges

This Agreement shall be binding on and ensure for the benefit of each Party's successors in title. No Party shall assign or declare any trust in favor of a third party over, all or any part of the benefit of, or its rights or benefits under, this Agreement.

b) Governing Law and jurisdiction

This Agreement shall be construed and interpreted in accordance with and governed by the laws of India, and the courts at the State of Maharashtra shall have jurisdiction over matters arising out of or relating to this Agreement.

c) Waiver of sovereign immunity

The Parties unconditionally and irrevocably:

- i. agree that the execution, delivery and performance by them of the Agreement constitute commercial acts done and performed for commercial purpose.
- ii. agree that, should any proceedings be brought against a Party or its assets, property or revenues in any jurisdiction in relation to the Agreement or any transaction contemplated by the Agreement, no immunity (whether by reason of sovereignty or otherwise) from such proceedings shall be claimed by or on behalf of such Party with respect to its assets.
- iii. waive any right of immunity which it or its assets, property or revenues now has, may acquire in the future or which may be attributed to it in any jurisdiction; and
- iv. consent generally to the enforcement of any judgment or award against it in any such proceedings to the giving of any relief or the issue of any process in any jurisdiction in connection with such proceedings (including the making, enforcement or execution against it or in respect of any assets, property or revenues whatsoever irrespective of their use or intended use of any order or judgment that may be made or given in connection therewith).

d) Variation

This Agreement may only be varied in writing and signed by both Parties

e) Waiver

Waiver including partial or conditional waiver, by either Party of any default by the other Party in the observance and performance of any provision of or obligations under this Agreement: -

- i. Shall be in writing
- ii. Shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions of or obligations under this Agreement.
- iii. Shall not be effective unless it is in writing and executed by a duly authorized representative of the Party; and
- iv. Shall not affect the validity or enforceability of this Agreement in any manner.

f) Exclusion of implied warranties

This Agreement expressly excludes any warranty, condition or other undertaking implied at law or by custom or otherwise arising out of any other agreement between the Parties or any representation by either Party not contained in a binding legal agreement executed by both Parties.

g) Survival

- Termination or expiration of the Term shall:
 - i. not relieve the Bidder or the Buyer, as the case may be, of any obligations hereunder which expressly or by implication survive hereof; and
 - ii. except as otherwise provided in any provision of this Agreement expressly limiting the liability of either Party, not relieve either Party of any obligations or liabilities for loss or damage to the other Party arising out of, or caused by, acts or omissions of such Party prior to the effectiveness of such termination or expiration or arising out of such termination or expiration.
- All obligations surviving termination or expiration of the Term shall cease on termination or expiration of the Term.

h) Entire Agreement

This Agreement and the Annexure together constitute a complete and exclusive statement of the terms of the agreement between the Parties on the subject hereof, and no amendment or modification hereto shall be valid and effective unless such modification or amendment is agreed to in writing by the Parties and duly executed by persons especially empowered in this behalf by the respective Parties. All prior written or oral understandings offers or other communications of every kind pertaining to this Agreement are abrogated and withdrawn.

IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED
For and on behalf of the Implementation
Agency by DGS

SIGNED, SEALED AND DELIVERED
For and on behalf of the Nodal
Agency by:

(Signature)

(Signature)

(Name): Shri.

(Name)

(Designation):

(Designation)

(Address)

(Address)

(Fax No.)

(Fax No.)

In the presence of:

- 1.
- 2.

Section 7 – Bidding Forms

18. Letter of Proposal

The Consultant must prepare the Letter of Proposal on its letterhead clearly showing the Consultant's complete name and address.

Note: All italicized text is for use in preparing these forms and shall be deleted from the final products.

Date:

Proposal Ref. No.:

To,

Directorate General of Shipping, 9th Floor Beta Building,

i-Think Techno Campus, Kanjurmarg (East), Mumbai - 400 042 (India)

Tel. No. : 91-22-25752040/41/42/43/45 Fax.No. :91-22-25752029/35; Email: dgship-dgs[at]nic[dot]in

1. We have examined and have no reservations to the Request for Proposals, including Addenda issued in accordance with Instructions to BidderBidders;
2. We meet the eligibility requirements in accordance with ITB 4 and have no Conflict of Interest in accordance with GFR 175;
3. We offer to provide, in conformity with the Request for Proposals, the following Consultancy Services: Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Govt. of India.
4. Our final price offer is as submitted in our financial Proposal.
5. Our Proposal shall remain valid for 180 days from the last date of submission of the Proposal and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
6. We are not participating, as a Bidder or as a sub-Bidder, in more than one proposal in this bidding process;
7. We, along with any of our sub-Bidders, key experts or joint venture partners for any part of the contract, are not debarred by any Client under the State Government, the Central Government or any State Government or any Public Undertaking, Autonomous body, Authority by whatever name called under them;
8. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any activities which is in contravention of the Code of Integrity proscribed in GFR 175;
9. We hereby certify that we neither are associated nor have been associated directly or indirectly with the Bidder or any other individual or entity that has prepared the design, specifications and other documents for the subject matter of procurement or is being proposed as Project Manager for the contract from the DGS;
10. We hereby certify that we have fulfilled our obligations to pay all such taxes as payable to the Central Government or the State Government or any local authority;
11. We hereby certify that we are not insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons;

12. We hereby certify that our directors and officers have not been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
13. We understand that this Proposal, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
14. We understand that DGS is not bound to accept the highest evaluated Proposal or any other Proposal that DGS may receive and that the decision of the DGS shall be final & binding.

Name of the Bidder:

Name of Bidder's Authorized Signatory:

Designation of the person signing the Proposal:

Signature of the person named above

Date signed

1. Checklist of documents comprising Proposal

Document	Form	Included (Y/N)	Page No.
Covering Letter – Technical Bid	Please refer Tech 1		NA
Prequalification compliance sheet	Please refer Tech 17		
Bidder Details	Please refer Tech 2		
Financial Capabilities	Please refer Tech 3		
Profile of Resource	Please refer Tech 4		
Manpower Details	Please refer Tech 5		
Technical Solution	Please refer Tech 6		
Unpriced Bill of Material	Please refer Tech 18		NA
Approach and Methodology	Please refer Tech 7		
Project Plan and development	Please refer Tech 8		
Deployment of Personnel	Please refer Tech 9		
Details of Experience of Bidder in Various Projects	Please refer Tech 10		
List of Sub-Contractors and OEMs and their details	Please refer Tech 11		
Black-listing Certificate	Please refer Tech 12		
Format of Consortium Agreement	Please refer Tech 13		
Bank Guarantee for Earnest Money Deposit	Please refer Tech 14		
Certificate of Conformity / No Deviation	Please refer Tech 15		
Declaration for No Conflict of Interest	Please refer Tech 16		
Bid Security Declaration	Form of Bid security declaration		
Compliance sheet for Functional Requirements	Please refer Annexure Consolidated		
Compliance sheet for Technical Requirements	Please refer annexure Consolidated		

Tech 1: Technical Bid - Covering Letter

<<On Bidder / Lead Bidder Letterhead>>

Date:

To:

Directorate General of Shipping

9th Floor, Beta Building,

i-Think Techno campus

Kanjurmarg (East), Mumbai - 400042

Subject: Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Autonomous Society, administratively controlled by the Ministry of Ports, Shipping and Waterways, Govt. of India.

Dear Sir,

We hereby request to be qualified with the Directorate General of Shipping as a Tenderer for **"Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Autonomous Society, administratively controlled by the Ministry of Ports, Shipping and Waterways, Govt. of India."**

I / We declare that all the services shall be performed strictly in accordance with the RFP documents, and we agree to all the terms and conditions in the RFP.

I / We confirm that I / we am / are withdrawing all the deviations, counter clauses, proposed modifications in the Scope of work, Terms and Conditions, Functional Requirement Specifications and Technical Specifications which may have been mentioned in our proposal.

We authorize Directorate General of Shipping or its authorized representatives to conduct any investigations to verify the statements, documents and information submitted and to clarify the financial and technical aspects of this application. For this purpose, we hereby authorize (any public official, engineer, bank, depository, manufacturer, distributor, etc.) or any other person or firm to furnish pertinent information deemed necessary and requested by Directorate General of Shipping to verify statements and information provided in this application or regarding our competence and standing.

The names and positions of persons who may be contacted for further information, if required, are as follows:

Name: _____

Designation: _____

Telephone: _____

E-mail id: _____

We declare that the statements made, and the information provided in the duly completed application are complete, true and correct in every detail. On verification at any time in the future if it is found that information furnished with this application and statements made therein are not true, incomplete or incorrect, we hereby authorize Directorate General of Shipping to reject our application.

We confirm having submitted the information as required by you in Qualification Criteria. In case you require any other further information / documentary proof in this regard before evaluation of our bid, we agree to furnish the same in time to your satisfaction.

We undertake, if our proposal is accepted, to provide all the services related to **Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Autonomous Society, administratively controlled by the Ministry of Ports, Shipping and Waterways, Govt. of India.** Put forward in the bid document

or such features as may subsequently be mutually agreed between us and DGS or its appointed representatives.

- I. We agree for unconditional acceptance of all the terms and conditions set out in the bid document and also agree to abide by this bid response for a period of 180 days from the date fixed for bid opening and it shall remain binding upon us with full force and virtue. Till a formal contract is prepared and executed, this bid response, together with your written acceptance thereof in your notification of award, shall constitute a binding contract between us and Seafarer's Welfare Fund Society (SWFS).
- II. We hereby declare that in case the contract is awarded to us, we will submit Performance Bank Guarantee equivalent to 10 % of total contract value as quoted in the commercial bid in the form prescribed in the RFP.
- III. I/We understand that Directorate General of Shipping and Seafarers' Welfare Fund Society (SWFS) reserves the right to reject any application without assigning any reason thereof.
- IV. I/We hereby undertake that I/We have not made any payment or illegal gratification to any person/authority connected with the bid process so as to influence the bid process and have not committed any offence under the PC Act in connection with the bid.
- V. All the prices mentioned in our Tender are in accordance with the terms as specified in the RFP documents.
- VI. We hereby confirm that our prices include all taxes. However, all the taxes are quoted separately under relevant sections.
- VII. We understand that the actual payment would be made as per the existing tax rates during the time of payment.
- VIII. We have indicated in the relevant forms enclosed, the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to / decrease from the scope of work under the contract.
- IX. We further confirm that the prices stated in our bid are in accordance with your Instruction to Bidders included in Tender documents.
- X. In case you require any other further information/documentary proof before/during evaluation of our Tender, we agree to furnish the same in time to your satisfaction.
- XI. We declare that our Bid Price is for the entire scope of the work as specified in the tender document. These prices are indicated in Commercial Bid submitted as part of the requirements of Tender.
- XII. Our commercial proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal.
- XIII. We understand you are not bound to accept any Proposal you receive.
- XIV. We hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.
- XV. I/We shall disclose any payments made or proposed to be made to any intermediaries (agents, etc.) in connection with the bid.
- XVI. It is hereby confirmed that I/We are entitled to act on behalf of our corporation/ company/firm/organization and empowered to sign this document as well as such other documents, which may be required in this connection.
- XVII. We declare that we have read through the Tender document, all related clarifications and corrigendum.

Thanking you,
Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :
Designation :
Date :
Company Seal :
Business Address :

Tech 2: Particulars of the Bidder (please fill separate sheet for each consortium members)

SI No.	Information Sought	Details to be Furnished
A	Name and address of the bidding Company	
B	In case of consortium, please indicate name of Lead Bidder	
C	Incorporation status of the firm (public limited / private limited, etc.)	
D	Year of Establishment	
E	Date of registration	
F	ROC Reference No.	
G	Details of registration with appropriate authorities for service tax	
H	Name, Address, email, Phone nos. and Mobile Number of Contact Person	

(Signature of the Authorized signatory of the Bidding Organization)

Name :
 Designation :
 Date :
 Company Seal :
 Business Address :

Tech 3: Financial Capability

<<To be completed by the Bidder / In case of consortium, by each partner as appropriate to demonstrate that they meet the requirements>>

<<On the letterhead of the Chartered Accountant >>

<<To be submitted along with Audited Financial Statements>>

Date

To:

Directorate General of Shipping

9th Floor, Beta Building,

i-Think Techno campus

Kanjurmarg (East), Mumbai - 400042

We have examined the books of accounts and other relevant records of <<Bidder / consortium Partner Name along with registered address>>. On the basis of such examination and according to the information and explanation given to us, and to the best of our knowledge & belief, we hereby certify that the annual turnover, Profit before Tax and Profit after tax for the three years i.e., from 2020-21, 2021-22 and 2022-23 was as per details given below:

Information from Balance Sheets (in Indian Rupees)			
	2020-21	2021-22	2022-23
Annual Turnover			
Profit before Tax			
Profit After Tax			

(Signature of the Chartered Accountant)

Name :
Designation :
Membership Number :
Date :
Company Seal :
Business Address :

Tech 4: Profile of Resource

Name of the employee					
Name of the employer	<<Name of the Bidder / Consortium Member >>				
Proposed position					
Date of Birth					
Nationality					
Total years of relevant experience					
Certifications	Note: Please attach copies of relevant certificates				
Education	Qualification	Name of School / College / University	Degree Obtained	Date Attended	
	Note: Please attach copies of relevant certificates				
Language	Language	Read	Write	Speak	
Employment Record	Employer	Position	From (MM / YYYY)	To (MM / YYYY)	Exp. Months in
	<i>(Starting with present position list in reverse order)</i>				
Relevant Experience	<i>(Give an outline on the experience most pertinent to tasks mentioned in the project. Describe degree of responsibility held on these relevant assignments). (Details shall be provided as per the number of project experience in the evaluation criteria specified in section 6.5 of the RFP. Bidders are expected to clearly state the total number of projects for the respective criterion as applicable.) Maximum 8 Projects:</i>				
	Name of Assignment/Project				
	Year				
	Location				
	Client				
	Main project features				
	Positions held				
	Activities performed				
Certification	I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes myself, my qualifications, and my experience.				
	Date: Place		Signature of the employee / Authorized Signatory		

Tech 5: Certificate from HR demonstrating its Organization Strength

<<On the letterhead of the Bidding Organization>>

<<In case of consortium, separate certificates to be submitted from respective HR authorized representatives>>

Date:

To:

Directorate General of Shipping

9th Floor, Beta Building,

i-Think Techno campus

Kanjurmarg (East), Mumbai - 400042

This is to certify that the number of full-time employees having experience in implementing all the major modules/solution components of the proposed solution in <<Organization Name>> is greater than <<Number>> as on DD/MM/YYYY

For <Organization Name>

HR Signature (with Organization Stamp)

HR Name

Tech 6: Technical Solution

The Bidder is required to describe the proposed Technical Solution in this section. The Technical Solution would be evaluated on the following broad parameters. The DGS/ SWFS reserves the rights to add, delete, or modify these parameters at any time during the Tender process, without assigning any reasons whatsoever and without being required to intimate the Bidders of any such change.

Clear articulation and description of the design and technical solution and various components

Extent of compliance to functional and technical requirements specified in the scope of work and in accordance with leading practices.

Technical Design and clear articulation of benefits to DGS of various components of the solution vis-à-vis other options available.

The Bidder should provide **detailed design** for the following listing all assumptions that have been considered:

- i. Proposed Solution, in detail (including various tools to be used)
- ii. Proposed Technical architecture
- iii. Capabilities of the proposed solution to address the functional requirements
- iv. Database design considerations
- v. Application Security Architecture
- vi. Cloud DC DR Considerations
- vii. Data Migration approach
- viii. Testing approach
- ix. Risk Management Plan

Tech 7: Approach & Methodology

- i. The Bidder should cover details of the methodology proposed to be adopted for planning and implementation of solutions relating to establishment of the DGS solution.
- ii. The Bidder may give suggestions on improvement of the scope of work given and may mention the details of any add on services related to this project over and above what is laid down in the tender document. List of deliverables should also be identified and explained.
- iii. The Bidder shall describe the knowledgebase, best practices and tools that will be used by the project team for the execution of scope of work activities.
- iv. The Bidder should cover details of the methodology proposed to be adopted for operations and maintenance of the DGS solution.
- v. The bidder shall cover the details for best practices from imparting similar kind of training for users in an organization similar to the DGS based on bidder's prior implementation experience in the same
- vi. Detailed Methodology and approach provided for training of the different stakeholders within DGS
- vii. Best practices from undertaking Change Management for users in an organization similar to DGS based on bidder's prior implementation experience in the same.
- viii. Detailed Training Plan indicating the number of training sessions, batch sizes and number of batches with respect to all the stakeholders, and all different kinds of training vis-à-vis the requirements in the tender.
- ix. Project Methodology should contain, but not limited to the following
 - Overall implementation methodology (Objective of phases, deliverables at each phase, etc.)
 - Methodology for performing business design
 - Methodology for quality control and testing of configured system
 - Methodology of internal acceptance and review mechanism for deliverables by the bidder.
 - Proposed Acceptance criteria for deliverables
 - Methodology and approach along with proposed tools and processes which will be followed by the bidder during project implementation
 - Change Management and Training Plan
 - Risk and Quality management plan

Tech 8: Project Plan & Deployment of Personnel

S. No	Item of Activity	Month-Wise Program					
		M1	M2	M3	M4	M5	
1	Activity 1						
1.1	Sub-Activity 1						
1.2	Sub-Activity 2						
2	Activity 2						
	..						
3	Activity 3						
3.1	Sub-Activity 1						
3.2	Sub- Activity 2						

Indicate all main activities of the assignment, including delivery of reports (e.g.: inception, interim, and final reports), and other benchmarks such as Bidder approvals. For phased assignments indicate activities, delivery of reports, and benchmarks separately for each phase.

Duration of activities shall be indicated in the form of a bar chart.

Note: The above activity chart is just for the purpose of illustration. Bidders are requested to provide detailed activity & phase wise timelines for executing the project with details of deliverables & milestones as per their proposal.

Tech 9: Format of Deployment of Personnel

The Bidder should provide a detailed resource deployment plan in place to ensure that technically qualified staff is available to deliver the project.

The Bidder should provide the summary table of details of the manpower that will be deployed on this project along with detailed CVs of each key personnel

No.	Name of Staff	Education Qualification and Designation	Area of Expertise	Deployment Period (In Months)						Total Man-Months Proposed	Full Time/ Part Time
				M1	M2	M3	M4	M5	n		
1											
2											
3											

Tech 10: Details of Experience of Bidder in Various projects

The bidder should provide information for each project on similar assignments required for pre-qualification and technical evaluation criteria as per the format mentioned below

Sr. No.	Credential for < Prequalification Criteria No. / Technical Criteria No>		
	Name of the Organization - <<Name of the Bidder / Consortium Member that have executed / executing the project>>		
	Parameter	Details	
General Information			
	Customer Name		
	Name of the contact person and contact details for the client of the assignment		
	Whether client visit can be organized	(YES / NO)	
Project Details			
	Project Title		
	Start Date and End Date		
	Date of Go-Live		
	Total Cost of the project		
	Current Status (Live / completed / on-going / terminated / suspended)		
	No of staff provided by your company		
	Please indicate the current or the latest AMC period with the client (<i>From Month –Year to Month-Year</i>)		
	Please indicate whether the client is currently using the implemented solution		
Size of the project			
	Number of total users and concurrent users of the solution at the client location(s):	Total users	
		Concurrent users	
	Training responsibilities of Bidder		
	Any other information to be shared with DGS		
Narrative Description of the Project:			
Detailed Description of actual services provided by Bidder:			
Documentary Proof:			

Tech 11: List of Sub-Contractors and OEMs and their details

List of Sub-Contractors

Sr. No.	Role	Name of Sub-Contractor / OEM	Responsibility	Products/Services Offered

List of OEMs

Sr. No.	Role	Name of OEM	Responsibility	Products/Services Offered

(Signature of the Authorized signatory of the Bidding Organization)

Name :
 Designation :
 Date :
 Company Seal :
 Business Address :

Tech 12: Details of ineligibility for corrupt or fraudulent practices / blacklisted with any of the Government or Public Sector Units

<<On the letterhead of the Bidding Organization>>

<<In case of consortium, separate certificates to be submitted from respective authorized representatives>>

Date:

To:

Directorate General of Shipping

9th Floor, Beta Building,

i-Think Techno campus

Kanjurmarg (East), Mumbai - 400042

Subject: Declaration for not being under an ineligibility for corrupt or fraudulent practices or blacklisted with any of the Government or Public Sector Units in India

Dear Sir,

We, the undersigned, hereby declare that

We are not under a declaration of ineligibility / banned / blacklisted by any State or Central Government / any other Government institutions in India for any reason as on last date of submission of the Bid or convicted of economic offence in India for any reason as on last date of submission of the Bid

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Company Seal :

Business Address :

Tech 13: Format for Consortium Agreement

<<On the letterhead of the Bidding Organization>>

<<In case of consortium, separate certificates to be submitted from respective authorized representatives>>

[Date]

To
Directorate General of Shipping
9th Floor, Beta Building,
i-Think Techno campus
Kanjurmarg (East), Mumbai - 400042

Sir,

Sub: Declaration on Consortium

I / We as Lead Partner of the Consortium, hereby declare the Roles and Responsibilities of the Consortium members:

Sr. No.	Member	Role	Responsibilities	I / We

understand that as Lead Partner, I / we are be responsible for executing at least one component of the scope of work from the following components:

1. Application Development and Maintenance
2. Transitioning and Change Management

I / We understand that if this information / declaration is found to be false or incorrect, Directorate General of Shipping reserves the right to reject the Bid or terminate the Contract with us immediately without any compensation to us.

Yours faithfully,

Authorized Signatory of the Lead Partner

Designation

Date

Time

Seal

Business Address

Pre-qualification Bid Forms

Tech 14: Bank Guarantee for Earnest Money Deposit

WHEREAS _____ (Name of Tenderer) (hereinafter called 'the tenderer')
has submitted its tender dated _____ (date) for the execution of
_____ (Name of work) (hereinafter called 'the tender')

KNOW ALL MEN by these presents that we _____ (Name of Bank) having our registered
office at _____ (hereinafter called 'the Bank') are bound unto the Directorate
General of Shipping, Mumbai appointed by Government of India under Merchant Shipping Act 1958 (hereinafter
called 'the Employer') in the sum of Rs. _____/- (Rs. _____) for which payment well and truly
to be made to the said Employer the Bank binds itself, its successors and assigns by these presents.

The CONDITIONS of this obligation are

If the Tenderer withdraws its Tender during the period of Tender validity specified in the Tender; or

If the Tenderer having been notified of the acceptance of his Tender by the Employer during the period of Tender
Validity;

fails or refuses to execute the Agreement, if required; or

fails or refuses to furnish the Performance Security, in accordance with the General Conditions of Contract.

We undertake to pay the Employer up to the above amount upon receipt of his first written demand, without the
Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount
claimed by him is due to him owing to the occurrence of one or both of two conditions, specifying the occurred
condition or conditions.

This guarantee will remain in force up to and including the date upto _____ (it shall be valid upto one eighty
(180) days after the date of expiry of the period of tender validity), and any demand in respect thereof should reach
our _____ branch situated in Mumbai limits for encashment not later than the date of expiry of this guarantee.

Dated _____ day of _____ 2020

Name of the Bank

Signature & Name & Designation

Seal of the Bank

Tech 15: CERTIFICATE OF CONFORMITY/ NO DEVIATION

<<To be submitted on the Company Letter head of the Lead Bidder>>

Date:

To:

Directorate General of Shipping

9th Floor, Beta Building,

i-Think Techno campus

Kanjurmarg (East), Mumbai – 400042

This is to certify that, the specifications of Software/ hardware which I/ We have mentioned in the technical bid, and which I/ We shall supply if I/ We am/ are awarded with the work, are in conformity with the minimum specifications of the bidding document and that there are no deviations of any kind from the requirement specifications.

Also, I/ we have thoroughly read the RFP and by signing this certificate, we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding document without any deviations.

I/ We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the bidding Document.

Thanking you,

Yours faithfully

(Signature of the Authorized signatory of the Bidding Organization)

Name :

Designation :

Date :

Company Seal :

Business Address :

Tech 16: Format – Declaration for No Conflict of Interest

<<To be submitted on the Company Letter head of the Lead Bidder>>

Date:

To

Directorate General of Shipping,

9th Floor, Beta Building,

i-Think Techno campus

Kanjurmarg (East), Mumbai – 400042

Sir,

Sub: Undertaking on No Conflict of Interest

I / We as System Integrator (SI) do hereby undertake that there is absence of, actual or potential conflict of interest on our part, on part of our Consortium partner (in case of a Consortium) due to prior, current, or proposed contracts engagements, or affiliations with Directorate General of Shipping, Government of India.

I / We also confirm that there are no potential elements (time frame for service delivery, resource, financial or other) that would adversely impact our ability to complete the requirements of this RFP.

We undertake and agree to indemnify and hold Directorate General of Shipping, Government of India harmless against all claims, losses, damages, costs, expenses, proceeding fees of legal advisors (on a reimbursement basis) and fees of other professionals incurred (in the case of legal fees & fees of professionals, reasonably) Directorate General of Shipping, Government of India and / or its representatives, if any such conflict arises later.

Yours faithfully,

Authorized Signatory

Designation

Date

Time

Seal

Business Address

Tech 17: Compliance Sheet for Pre-Qualification Proposal

The Bidder is required to fill relevant information in the format given below. The pre-qualification bid must contain documentary evidences and supporting information to enable DGS to evaluate the eligibility of the Bidder without ambiguity.

Sr. No	Qualification Criteria	Documents / Information to be provided in the submitted proposal	Compliance (Yes / No)	Reference & Page Number
	PQ 1			
	PQ 2			
	PQ3			
	PQ4			
	PQ5			
	PQ6			
	PQ7			
	PQ8			

Form of Bid Security Declaration

{Use Company Letterhead}

BID SECURITY DECLARATION

I/We, M/s (Name of bidder) am/are aware that I/We have been exempted from submission of Bid Security/Earnest Money Deposit in lieu of this Bid Security Declaration. I/We understand and accept that if I/We withdraw my/our bid within bid validity period or if awarded the tender and on being called upon to submit the performance Guarantee/Performance Security fail to submit the same within the stipulated time period mentioned in tender documents or on being called upon to sign the contract agreement fail to sign the same within stipulated period mentioned in tender documents, I/We i.e., the bidder shall be banned from submission of bids in any Works/Service Tender issued by DGS for a period of 24 months from the date of such banning order.

Authorized Signatory
Sign and Stamp

Section 8 – General Conditions of Contract (GCC)

1. General Provisions	
1.1 Definitions	Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings: a) "Completion Date" means the date of completion of the Services by the Bidder as certified by the Client; b) "Contract" means the Contract signed by the Parties, to which these General Conditions of Contract (GCC) are attached, together with all the documents listed in Clause 1 of such signed Contract, as named in SCC; c) "Contract Price" means the financial proposal of the successful Bidder duly accepted by the client; d) "Client" means the agency, as named in SCC, that signs the Contract for the Services with the Selected Bidder; e) "Bidder" means a legally-established professional consulting firm or entity selected by the Client to provide the Services under the signed Contract as specified in SCC; f) "Day" means a working day unless indicated otherwise. g) "Experts" means, collectively, Key Experts, Non-Key Experts, or any other Experts of the Bidder, Sub-Bidder or JV member(s) assigned by the Bidder to perform the Services or any part thereof under the Contract; h) "GCC" means these General Conditions of Contract; i) "Party" means the Client or the Bidder, as the case may be, and "Parties" means both of them; j) "Bidder's Proposal" means the completed Request for Proposals submitted by the Bidder to the Client; k) "SCC" means the Special Conditions of Contract by which the GCC may be amended or supplemented; l) "Services" means the work to be performed by the Bidder pursuant to this Contract, as described in Appendix A – Terms of Reference; m) "Third Party" means any person or entity other than the Government, the Client, the Bidder or a Sub-Bidder.
1.2 Applicable Law	The Contract shall be interpreted in accordance with the laws of the Union of India.
1.3 Language	This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.
1.4 Notices	Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC . The term "in writing" means communicated in written form with proof of receipt. A notice shall be effective from the date of delivery or on the notice's effective date, whichever is later. In case of electronic mode of communication, a notice shall be effective from the time of sending of the electronic communication.

1.5 Location	The Services shall be performed at such locations as are specified in Appendix A hereto
1.6 Authorized Representatives	Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Client or the Bidder may be taken or executed by the officials specified in the SCC .
1.7 Authority of Member in Charge	In case the Bidder is a Joint Venture, the members hereby authorize the member specified in the SCC to act on their behalf in exercising all the Bidder's rights and obligations towards the Client under this Contract, including without limitation the receiving of instructions and payments from the Client.
1.8 Taxes and Duties	The Bidder and their Experts shall pay such taxes, duties, fees, and other impositions as may be levied under the Applicable Law, the amount of which is deemed to have been included in the Contract Price.
1.9 Code of Integrity	a) The Client, the Bidder and their representatives shall strictly adhere to the code of integrity as stipulated under GFR 175. b) The Client requires the Bidder to disclose any commissions, gratuities or fees that may have been paid or are to be paid to agents or any other party with respect to the selection process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee. Failure to disclose such commissions, gratuities or fees may result in termination of the Contract
2. Commencement, Completion, Modification, and Termination of Contract	
2.1 Effectiveness of Contract	This Contract shall come into effect on the date the Contract is signed by both parties or such other later date as may be stated in the SCC .
2.2 Commencement of Services	
2.2.1 Program	Before commencement of the Services, the Bidder shall submit to the Client for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.
2.2.2 Starting Date	The Bidder shall start carrying out the Services thirty (30) days after the date the Contract becomes effective, or at such other date as may be specified in the SCC .
2.3 Intended Completion Date	Unless terminated earlier pursuant to Sub-Clause 2.6, the Bidder shall complete the activities by the Intended Completion Date, as is specified in the SCC . If the Bidder does not complete the activities by the Intended Completion Date, it shall be liable to pay liquidated damage as per Sub-Clause 3.8. In this case, the

	Completion Date will be the date of completion of all activities.
2.4 Modification	Modification of the terms and conditions of this Contract, including any modification of the scope of the Services or of the Contract Price, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
2.5 Force Majeure	
2.5.1 Definition	For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.
2.5.2 No Breach of Contract	The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.
2.5.3 Extension of Time	Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
2.6 Termination	
2.6.1 By the Client	The Client may terminate this Contract, by not less than thirty (30) days' written notice of termination to the Bidder, to be given after the occurrence of any of the events specified in paragraphs (a) through (d) of this Sub-Clause 2.6.1: a. if the Bidder does not remedy a failure in the performance of its obligations under the Contract, within thirty (30) days after being notified or within any further period as the Client may have subsequently approved in writing; b. if the Bidder become insolvent or bankrupt; c. if, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) days; or d. if the Bidder, in the judgment of the Client has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract. The Bidder may terminate this Contract, by not less than thirty (30) days' written notice to the Client, such notice to be given after the occurrence of any of the events specified in paragraphs (a) and (b) of this Sub-Clause 2.6.2:
2.6.2 By the Bidder	a. if the Client fails to pay any monies due to the Bidder pursuant to this Contract and not subject to dispute pursuant to Clause 7 within forty-five (45) days after receiving written notice from the Bidder that such payment is overdue; or b. (b) if, as the result of Force Majeure, the Bidder is unable to perform

	a material portion of the Services for a period of not less than sixty (60) days.
3. Obligations of the Bidder	
3.1 General	The Bidder shall perform the Services in accordance with the Specifications and the Terms of Reference, and carry out its obligations with all due diligence, efficiency, and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advanced technology and safe methods. The Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as faithful adviser to the Client, and shall at all times support and safeguard the Client's legitimate interests in any dealings with Sub-Bidders or third parties.
3.2 Conflict of Interests	3.2.1 The Bidder shall hold the Client's interest paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests. 3.2.2 The Bidder agrees that, during the term of this Contract and after its termination, the Bidder and any entity affiliated with the Bidder shall be disqualified from providing goods, works or non-consulting services resulting from or directly related to the Services for the preparation or implementation of the project, unless otherwise indicated in the SCC. 3.2.3 The payment of the Bidder pursuant to GCC shall constitute the Bidder's only payment in connection with this Contract and the Bidder shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Bidder shall use its best efforts to ensure that any Sub-Bidders, as well as the Experts and agents of either of them, similarly shall not receive any such additional payment. 3.2.4 Furthermore, if the Bidder, as part of the Services, has the responsibility of advising the Client on the procurement of goods, works or services, the Bidder shall comply with the applicable rules and guidelines of the Government of India, and shall at all times exercise such responsibility in the best interest of the Client. Any discounts or commissions obtained by the Bidder in the exercise of such procurement responsibility shall be for the account of the Client. 3.2.5 The Bidder shall not engage, and shall cause its Experts as well as its Sub-Bidders not to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this Contract. 3.2.6 The Bidder has an obligation and shall ensure that its Experts and Sub-Bidders shall have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Client, or that may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Bidder or the termination of its Contract.
3.3 Confidentiality	Except with the prior written consent of the Client, the Bidder and

	the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Bidder and the Experts make public the recommendations formulated in the course of, or as a result of, the Services. In the event that the Firm or its representatives are requested pursuant to, or required by, applicable law or regulation or by legal or administrative process to disclose any Confidential Information, or where the Firm wishes to disclose to its professional indemnity insurers or to its advisers, the Firm agrees that it will, as far as is legally and practically possible, provide the Client with prompt notice of such request or requirement in order to enable the Client to seek an appropriate protective order or other remedy. In the event that such protective order or other remedy is not obtained, the Firm or its representatives, as the case may be, shall disclose only the portion of the Confidential Information which is legally or professionally required to be disclosed.
3.4 Insurance to be Taken Out by the Bidder	The Bidder (a) shall take out and maintain, and shall cause any Sub-Bidders to take out and maintain, at its (or the Sub-Bidders', as the case may be) own cost but on terms and conditions approved by the Client, insurance against the risks, and for the coverage, as shall be specified in the SCC; and (b) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums have been paid. The Bidder shall ensure that such insurance is in place prior to commencing the Services.
3.5 Bidder's Actions Requiring Client's Prior Approval	The Bidder shall obtain the Client's prior approval in writing before taking any of the following actions: a. entering into a subcontract for the performance of any part of the Services, b. changing the Program of activities; and c. any other action that may be specified in the SCC.
3.6 Reporting Obligations	The Bidder shall submit to the Client the reports and documents specified in Appendix A, in the form, in the numbers and within the time periods set forth in the said Appendix.
3.7 Documents Prepared by the Bidder to Be the Property of the Client	3.7.1 All plans, drawings, specifications, designs, reports, and other documents and software submitted by the Bidder in accordance with Sub- Clause 3.6 shall become and remain the property of the Client, and the Bidder shall, not later than upon termination or expiration of this Contract, deliver all such documents and software to the Client, together with a detailed inventory thereof. The Bidder may retain a copy of such documents and software. Restrictions about the future use of these documents, if any, shall be specified in the SCC. 3.7.2 If license agreements are necessary or appropriate between the Bidder and third parties for purposes of development of the plans, drawings, specifications, designs, databases, other documents and software, the Bidder shall obtain the Client's prior written approval to such agreements, and the Client shall be

	entitled at its discretion to require recovering the expenses related to the development of the program(s) concerned.
4. Bidder's Experts	
4.1 Description of Key Experts	The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Bidder's Key Experts are described in Appendix B. The Key Experts listed by title as well as by name in Appendix B are hereby approved by the Client.
4.2 Removal and/or Replacement of Experts	4.2.1 Except as the Client may otherwise agree, no changes shall be made in the Key Experts. If, for any reason beyond the reasonable control of the Bidder, it becomes necessary to replace any of the Key Experts, the Bidder shall provide as a replacement a person of equivalent or better qualifications. 4.2.2 If the Client finds that any of the Experts have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Experts, then the Bidder shall, at the Client's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Client. 4.2.3 In the event that any of Key Experts, Non-Key Experts or Sub-Bidders is found by the Client to be incompetent or incapable in discharging assigned duties, the Client, specifying the grounds therefore, may request the Bidder to provide a replacement. 4.2.4 The Bidder shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Experts. 4.2.5 Notwithstanding the above, the substitution of Key Experts during Contract execution may be considered only based on the Bidder's written request and due to circumstances outside the reasonable control of the Bidder, including but not limited to death or medical incapacity. In such case, the Bidder shall forthwith provide as a replacement, a person of equivalent or better qualifications and experience, and at the same rate of remuneration.
5. Obligations of the Client	
5.1 Assistance and Exemptions	The Client warrants that the Bidder shall have, free of charge, unimpeded access to the project site in respect of which access is required for the performance of the Services. The Client shall use its best efforts to provide the Bidder such assistance and exemptions as specified in the SCC .
5.2 Services, Facilities and Property of the Client	The Client shall make available to the Bidder and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference (Appendix A) at the times and in the manner specified in said Appendix A.
5.3 Counterpart Personnel	5.3.1 The Client shall make available to the Bidder free of charge such professional and support counterpart personnel, to be nominated by the Client with the Bidder's advice, if specified in

	Appendix A. 5.3.2 Professional and support counterpart personnel, excluding Client's liaison personnel, shall work under the exclusive direction of the Bidder. If any member of the counterpart personnel fails to perform adequately any work assigned to such member by the Bidder that is consistent with the position occupied by such member, the Bidder may request the replacement of such member, and the Client shall not unreasonably refuse to act upon such request.
5.4 Payment Obligation	In consideration of the Services performed by the Bidder under this Contract, the Client shall make such payments to the Bidder for the deliverables specified in Appendix A and in such manner as is provided by GCC 6 below.
5.5 Change in the Applicable Law	If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the Services rendered by the Service Provider, then the remuneration and reimbursable expenses otherwise payable to the Bidder under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred to in Sub-Clause 6.1.
6. Payments	
6.1 Contract Price	6.1.1 The Bidder's Contract Price shall be a fixed lump-sum net of all costs incurred by the Bidder in carrying out the Services described in Appendix A. The Contract Price is set forth in the SCC. The Contract price breakdown is provided in Appendix C. 6.1.2 Any change to the Contract price specified in Clause 6.1.1 can be made only if the Parties have agreed to the revised scope of Services pursuant to Clause GCC 2.4 and have amended in writing the Terms of Reference in Appendix A.
6.2 Taxes and Duties	6.2.1 The Bidder, Sub-Bidders and Experts are responsible for meeting any and all tax liabilities arising out of the Contract. 6.2.2 As an exception to the above and as stated in the SCC, the GST is reimbursed to the Bidder.
6.3 Mode of Billing and Payment	6.3.1 The total payments under this Contract shall not exceed the Contract price set forth in Clause GCC 6.1.1. 6.3.2 The payments under this Contract shall be made in lump-sum installments against deliverables specified in Appendix A. The payments will be made according to the payment schedule stated in the SCC. 6.3.3 The Client shall pay the Bidder within forty-five (45) days after the receipt by the Client of the deliverable(s) and the cover invoice for the related lump-sum installment payment. The payment can be withheld if the Client does not approve the submitted deliverable(s) as satisfactory in which case the Client shall provide comments to the Bidder within the same forty-five (45) days period. The Bidder shall thereupon promptly make any

	necessary corrections, and thereafter the foregoing process shall be repeated. 6.3.4 The final payment under this Clause shall be made only after the final report I have been submitted by the Bidder and approved as satisfactory by the Client. The Services shall then be deemed completed and finally accepted by the Client. The last lump-sum installment shall be deemed approved for payment by the Client within sixty (60) calendar days after receipt of the final report by the Client unless the Client, within such sixty (60) calendar day period, gives written notice to the Bidder specifying in detail deficiencies in the Services, the final report. The Bidder shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated. 6.3.5 All payments under this Contract shall be made to the accounts of the Bidder specified in the SCC.
6.4 Interest on Delayed Payments	If the Client had delayed payments beyond fifteen (15) days after the due date stated in Clause GCC 6.3.3, interest shall be paid to the Bidder on any amount due by, not paid on, such due date for each day of delay at the annual rate stated in the SCC.
7. Settlement of Disputes	
7.1 Amicable Settlement	The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
7.2 Dispute Settlement	Any dispute between the Parties arising under or related to this Contract that cannot be settled amicably may be referred to by either Party to the adjudication / arbitration in accordance with the provisions specified in the SCC.
8. Good Faith	
	The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.
9. Limitation of Liability	
	The total aggregate liability of the Bidder, whether in contract, tort (including negligence) or otherwise, under or in connection with this agreement, shall in no circumstances exceed a sum equal to 110% of the contract value.
10. Indemnity	
	The Bidder shall at all times indemnify and keep indemnified the Client against all claims/damages for any infringement of any Intellectual Property Rights (IPR) while providing its services under the Contract. The Bidder shall indemnify the Client in full for any failure in performance on account of its default or non-fulfilment of its obligations and the same is performed by the client or any other agency engaged by the client. In such case all the costs and expenses incurred by the client are recoverable from the Bidder. The Client shall also indemnify the Bidder for losses/damages suffered due to any fraud, misrepresentation or

	omission of facts by the Client or any of its personnel.
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Section 9 – Special Conditions of Contract (SCC)

Number of GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
1.1(b)	The contract name is Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Govt. of India.
1.1(d)	The Client is <i>Directorate General of Shipping, 9th Floor Beta Building, i-Think Techno Campus, Kanjurmarg (East), Mumbai - 400 042 (India)</i>
1.1(e)	The Bidder is _____
1.4	The addresses are: Client: Directorate General of Shipping (DGS), Attention: Capt. Daniel J. Joseph, Member Secretary SWFS, Deputy Director General, DGS Office E-mail: danieljohn-dgs@gov.in Bidder: Attention: Facsimile: E-mail: _____
1.6	The Authorized Representatives are: For the Client: _____ For the Bidder: <i>[name, title]</i> _____
1.7	The authorized member in charge is _____
2.1	No change to the GCC clause
2.2.2	The Starting Date for the commencement of Services is seven (7) days after contract signing.
2.3	The Intended Completion Date is _____

3.2.2	The Client reserves the right to determine on a case-by-case basis whether the service should be disqualified from providing goods, works or non-consulting services due to a conflict of a nature described in Clause GCC 3.2.2								
3.4	The risks and coverage by insurance shall be: (i) Third Party liability – as stipulated by relevant government law. (ii) Client's liability and workers' compensation – as stipulated in the employees' compensation act. (iii) Professional liability – at least 110% of the Contract Price.								
3.5 c.	The Bidder shall follow the protocol stipulated in the Terms of Reference regarding entering-exiting Client's premises and for weighting and carrying the investment powder waste.								
3.7	There are no specific restrictions.								
5.1	The Client shall provide necessary assistance in providing gate-passes for smooth entry of the Bidder's vehicles and employees.								
6.1	The Contract Price is: _____								
6.2.2	The amount of GST reimbursable to the Bidder is: _____								
6.3.2	The payment schedule shall be as stipulated under Appendix A – Terms of Reference.								
6.3.5	Bidder's account details for payments under the Contract are: <table> <tr> <td>Account</td><td>Name:</td></tr> <tr> <td>Bank</td><td>Name:</td></tr> <tr> <td>Branch</td><td>Name:</td></tr> <tr> <td>IFSC Code:</td><td></td></tr> </table>	Account	Name:	Bank	Name:	Branch	Name:	IFSC Code:	
Account	Name:								
Bank	Name:								
Branch	Name:								
IFSC Code:									
6.4	The interest rate shall be 6% per annum.								
7.2	Disputes shall be resolved by way of arbitration as stipulated under the Arbitration and Conciliation Act, 1996 as amended till date.								

Appendix A – Terms of Reference

Refer to Section 5

Appendix B – Breakdown of Price

{Bidder shall insert the Breakdown of Contract Price in the BoQ (Excell file) uploaded separately in the E- Procurement portal}

Appendix C – CVs of the Key Experts

{Bidder shall insert the Key Experts' CVs here}

Section 10 – Contract Forms

Letter of Acceptance

{On Client's Letterhead}

Date:

To: *{Insert Name and Address of the Successful Bidder}*

Subject: Letter of acceptance of your Proposal against tender ref. no.:

This is to notify you that your Proposal dated *[insert date of Proposal submitted by the Bidder]* for the execution of services titled "*Selection of System Integrator for Complete ERP development of Seafarer's Welfare Fund Society, Govt. of India.*" against RFP Ref. No. *[insert Proposal Ref. No.]* is hereby accepted by the Client for the Contract Price of Rs. *[insert amount in numbers and words]*, as evaluated in accordance with the Instructions to Bidders.

You are requested to execute the contract agreement within 28 days of receipt of this Letter. Till a contract agreement is executed, this Letter along with your accepted proposals shall constitute a valid and mutually binding contract.

Authorized Signature:

Name and Designation of Signatory:

Name of Client:

Form of Contract

This CONTRACT (hereinafter called the “Contract”) is made the *[number]* day of the month of *[month]*, *[year]*, between, on the one hand, **DGS, Mumbai** (hereinafter called the “Client”) and, on the other hand, *[name of Bidder]* (hereinafter called the “Bidder”).

WHEREAS

- (a) the Client has requested the Bidder to provide certain consulting services as defined in this Contract (hereinafter called the “Services”);
- (b) the Bidder, having represented to the Client that it has the required professional skills, expertise and technical resources, has agreed to provide the Services on the terms and conditions set forth in this Contract;

NOW THEREFORE the parties hereto hereby agree as follows:

- 1. The following documents attached hereto shall be deemed to form an integral part of this Contract:
 - (a) The General Conditions of Contract;
 - (b) The Special Conditions of Contract;
 - (c) Appendices:
 - Appendix A: Terms of Reference
 - Appendix B: Key Experts
 - Appendix C: Breakdown of Contract Price

In the event of any inconsistency between the documents, the following order of precedence shall prevail: the Special Conditions of Contract; the General Conditions of Contract, including Attachment 1; Appendix A; Appendix B; Appendix C. Any reference to this Contract shall include, where the context permits, a reference to its Appendices.

- 2. The mutual rights and obligations of the Client and the Bidder shall be as set forth in the Contract, in particular:
 - (a) the Bidder shall carry out the Services in accordance with the provisions of the Contract; and
 - (b) the Client shall make payments to the Bidder in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

For and on behalf of **Directorate General of Shipping, Mumbai**

Shri Shyam Jagannathan, DGS

For and on behalf of *[Name of Bidder or Name of a Joint Venture]*

[Authorized Representative of the Bidder – name and signature]

NON-DISCLOSURE AGREEMENT

THIS AGREEMENT is made on this the <***> day of <***> 20--- at <***>, India.

BETWEEN

----- having its office at -----
----- India hereinafter referred to as 'DGS' or '-----', which
expression shall, unless the context otherwise requires, include its permitted successors and assigns);
AND

<***>, a Company incorporated under the Companies Act, 1956, having its registered office at <***>
(hereinafter referred to as 'the Bidder/MSP' which expression shall, unless the context otherwise
requires, include its permitted successors and assigns).

Each of the parties mentioned above are collectively referred to as the 'Parties' and individually as a
'Party'.

WHEREAS:

1. DGS/SWFS is desirous to implement the project of -----.
2. DGS/ SWFS and Bidder have entered into a Master Services Agreement dated <***> (the
"MSA") as well as a Service Level Agreement dated <***> (the "SLA") in furtherance of the Project.
3. Whereas in pursuing the Project (the "**Business Purpose**"), a Party ("Disclosing Party")
recognizes that they will disclose certain Confidential Information (as defined hereinafter) to the other
Party ("Receiving Party").
4. Whereas such Confidential Information (as defined hereinafter) belongs to Receiving Party as
the case may be and is being transferred to the Disclosing Party to be used only for the Business Purpose
and hence there is a need to protect such information from unauthorized use and disclosure.

NOW THEREFORE, in consideration of the mutual covenants, promises, assurances, representations
and provisions set forth herein, the Parties hereto agree as follows:

**IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED AND DELIVERED THIS
AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.**

SIGNED, SEALED AND DELIVERED
For and on behalf of the Implementation
Agency by: SWFS/DGS

SIGNED, SEALED AND DELIVERED
For and on behalf of the Nodal
Agency by:

(Signature)

(Signature)

(Name): Shri.
(Designation):

(Name)
(Designation)

(Address)

(Address)
(Fax No.)

(Fax No.)

In the presence of:

1.

SERVICE LEVEL AGREEMENT

THIS AGREEMENT is made on this the <***> day of <***> 20---- at <***>, India.

BETWEEN

----- having its office at -----
----- India hereinafter referred to as 'DGS' or 'Buyer', which expression shall, unless the context otherwise requires, include its permitted successors and assigns);

AND

<***>, a Company incorporated under the *Companies Act, 1956*, having its registered office at <***> (hereinafter referred to as '*the Bidder/MSP*' which expression shall, unless the context otherwise requires, include its permitted successors and assigns).

Each of the parties mentioned above are collectively referred to as the '*Parties*' and individually as a '*Party*'.

WHEREAS:

1. DGS is desirous for Implementation and Operations Management of ERP solution.
2. SWFS and Bidder have entered into a Master Services Agreement dated <***> (the "*MSA*").

NOW THEREFORE, in consideration of the mutual covenants, promises, assurances, representations and provisions set forth herein, the Parties hereto agree as follows:

The following parties are obligated to follow the procedures as specified by this Agreement:

DGS/ SWFS

Bidder

IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN

SIGNED, SEALED AND DELIVERED For and on behalf of the Bidder by:	SIGNED, SEALED AND DELIVERED For and on behalf of DGS by:
(Signature) (Name) XXX (Designation) XXXX (Address) XXXX (Fax No.)	(Signature) (Name) (Designation) (Address) (Fax No.)

In the presence of:

1. _____
2. _____

Annexure – II Functional Requirements Specification

1. Scheme Management

A. Seafarer Profile Creation and Maintenance

- i. The system shall provide a facility to create profiles for registered Seafarers.
- ii. The profile creation shall be based on the details provided in the Registration Form.
- iii. The Seafarer profile shall include sections for General Details, Address Details, and Bank Account Details.
- iv. The system shall allow Seafarers/ beneficiaries to edit, save, and update their profile information.
- v. The system shall maintain an edit history for changes made to the general details of the Seafarer profile, including timestamps and user information.

B. Gratuity Scheme Application, processing and disbursement

- i. The system shall provide an online form for Seafarers to apply for gratuity claims.
- ii. The online form shall capture detailed information required for the gratuity claim application process.
- iii. The system shall allow responsible officers of SWFS to record, process, and track gratuity claim applications.
- iv. The system shall provide Seafarers/ beneficiaries with real-time updates on the status of their Gratuity claim applications.
- v. The system shall provide Seafarers with the facility to view their gratuity claim details, including the status and any outstanding balances.
- vi. The system shall enable SWFS to disburse gratuity claims to eligible Seafarers.

C. Welfare Scheme Application, processing and disbursement

- i. The system shall provide Seafarers with a user-friendly interface for the completion and submission of welfare scheme applications.
- ii. The system shall allow responsible officers to record the incoming welfare scheme applications.
- iii. The system shall facilitate responsible officers in scrutinizing, verifying, and approving welfare scheme applications.
- iv. The system shall provide Seafarers with real-time updates on the status of their welfare scheme applications.
- v. The system shall display the progress and status of welfare scheme applications to enhance user awareness.
- vi. The system shall allow authorized users to review and approve calculated penalties before they are applied.
- vii. The system shall have facility to enable administrators to issue demand notices electronically to the respective shipping companies.
- viii. The system shall have facility for online payment of penalties by shipping companies.
- ix. The system shall enable SWFS to disburse benefit funds to eligible Seafarers who have been approved for welfare schemes.

2. Fund Management

A. Payments and remittance information by contributors

- i. The system shall allow shipping companies to pay contributions towards gratuity and welfare schemes through a secure online interface.

- ii. The system shall enable shipping companies to upload remittance statements detailing payment information.
- iii. The system shall facilitate the sharing of remittance information between shipping companies and the society.
- iv. The system shall support direct deposits made by shipping companies into the society's designated bank accounts.

B. Contribution Tracking and Reconciliation

- i. The system shall enable responsible officers to capture and record contributions received from shipping companies, categorizing them into gratuity and welfare schemes.
- ii. The system shall automatically reconcile contributions against remittance statements, flagging any discrepancies for review.
- iii. The system shall track all collections, including gratuity contributions, welfare contributions, and levy fees, from shipping companies.

C. Financial Management for Investment

- i. The system shall manage gratuity and welfare fund accounts separately, ensuring clear financial segregation.
- ii. The system shall facilitate investment of collected funds based on Ministry of Finance guidelines, including:
- iii. Automatic calculation of interest rates for investments.
- iv. Updating the calculated interest in the respective Seafarer accounts.
- v. The system shall enable secure fund transfers between different accounts, such as transferring funds from the main account to the Fund Management account.

D. Monitoring and Compliance

- i. The system shall monitor the utilization of funds against approved welfare and gratuity schemes, ensuring compliance with allocation guidelines.
- ii. The system shall calculate and facilitate the transfer of 5% of interest income from gratuity investments to the administrative fund.
- iii. The system shall transfer excess funds to the Fund Management Account for additional investments as needed.
- iv. The system shall record and track capital procurements made by the society, ensuring transparency and accountability.

E. Financial Management System

- i. The system must provide the capability to record, monitor, and maintain all accounting and financial information related to the SWFS. This includes capturing detailed transactions and maintaining accurate records of financial activities.
- ii. The system should automate the recording of accounting entries for collections and payments. This feature will ensure that all financial transactions are processed accurately and timely without manual intervention.
- iii. The system must facilitate automated periodic postings to streamline regular financial entries and updates. This includes scheduling and executing recurring transactions as per defined intervals.

F. Income and Expense Tracking and GST- Return fillings

- i. The system should allow for the tracking of income and expenses specifically related to Gratuity and Welfare funds. This includes monitoring the flow of funds, generating reports, and ensuring accurate financial management for these categories.

- ii. the system must provide functionality to manage Goods and Services Tax (GST) return filings. This includes tracking GST-related transactions, generating reports for filing, and ensuring compliance with tax regulations.

G. Budget Preparation and Revision

- i. The system should facilitate the preparation of a yearly budget. This involves setting budgetary limits, forecasting financial requirements, and compiling data for budget creation.
- ii. The system must include features for budget revisions and reappropriation. This includes the ability to update and adjust budgetary allocations based on changing financial conditions and needs.
- iii. The system should provide tools for managing the administrative expenses budget. This includes monitoring, controlling, and reporting on administrative expenditures to ensure they remain within the allocated budget.

H. Compliance and Regulatory Reporting

- i. The system shall generate reports required for compliance with financial regulations, including statutory filings and submissions to relevant authorities.
- ii. The system shall support internal and external audits by providing necessary reports and documentation, ensuring compliance with audit requirements.

3. Online Web Portal related FRS

A. User Account Management:

- i. Users should be able to create new accounts by providing required information such as name, email address, and other relevant details.
- ii. The registration process should include email verification to confirm the user's identity.

B. Profile Management

- i. Users should be able to update their profile information, including contact details, address, and other personal data.
- ii. Users should have the ability to upload profile pictures and set preferences.

C. Authentication and Security

- i. The system must support secure login mechanisms, including password-based and multi-factor authentication.
- ii. Password reset functionality should be available in case users forget their passwords.

D. Information Access

- i. Document Retrieval: Users should be able to view and download documents related to SWFS, including financial reports, scheme brochures, and policy updates. The system should provide document preview capabilities before downloading.
- ii. The system should provide document preview capabilities before downloading.
- iii. Data Visualization: The portal should offer graphical representations of data, such as charts and graphs, for better understanding of financial and scheme-related information.
- iv. Interactive elements should be available to filter and view specific data sets.
- v. Search and Navigation: Users should be able to search for specific information using keywords and filters.
- vi. Navigation should be intuitive, with categorized sections and a well-organized menu structure.

E. Service Request and Tracking:

- i. Request Submission: Users should be able to submit service requests, such as fund withdrawals or inquiries, through a standardized form. The request form should capture all necessary details and support file attachments if needed.

- ii. Request Status Tracking: Users should be able to track the status and progress of their requests in real-time. Notifications should be sent to users regarding updates or changes in the status of their requests.
- iii. Historical Records: Users should have access to a history of their submitted requests and corresponding statuses. The system should allow users to view details and responses for past requests.

F. Communication Tools:

- i. Messaging System: The portal should include an internal messaging system for users to communicate with SWFS administrators. Users should be able to send and receive messages and attach files if necessary.
- ii. Notifications and Alerts: The system should generate notifications for important updates, such as changes in fund status or policy amendments. Alerts should be customizable based on user preferences and relevance.
- iii. Feedback Mechanism: Users should be able to provide feedback on services and portal functionalities. A structured feedback form should be available to capture user suggestions and concerns.

G. Dashboard and Reporting:

- i. Personalized Dashboard: The portal should feature a customizable dashboard displaying key metrics and summaries relevant to the user. Widgets or modules on the dashboard should include financial status, recent activities, and pending tasks.
- ii. Report Generation: Users should be able to generate and view various reports, such as financial summaries, scheme performance, and transaction histories. Reports should be exportable in multiple formats, such as PDF and Excel.
- iii. Data Visualization: The dashboard should incorporate data visualization tools, such as charts and graphs, to present information clearly and effectively. Interactive elements should allow users to drill down into specific data points for more detailed insights.

H. Document Management:

- i. Upload and Storage: Users should be able to upload documents securely and store them in their account for future reference. The system should support multiple file formats and provide a clear structure for document organization.
- ii. Document Retrieval and Viewing: Users should have the ability to view and download previously uploaded documents. Document preview capabilities should be available to check contents before downloading.
- iii. Document Management Features: Users should be able to categorize, tag, and search for documents easily. The system should provide options for document versioning and tracking changes.

I. Search and Filtering:

- i. Search Functionality: The portal should include a powerful search engine to locate information and documents quickly using keywords or phrases. Advanced search options should be available to refine search results based on criteria such as date range or document type.
- ii. Filtering Options: Users should be able to apply filters to narrow down search results and view specific categories of information. Filtering should be available in various sections, including reports, requests, and document libraries.
- iii. Search Results Management: The system should display search results in an organized manner, with options to sort and group results. Users should be able to save frequent searches and access them easily.

J. Accessibility and User Experience:

- i. Responsive Design: The portal must be designed to be responsive and compatible with various devices, including desktops, tablets, and smartphones. The user interface should adapt to different screen sizes and orientations.
- ii. User Interface (UI) Design: The portal should have a clean, intuitive UI with easy navigation and well-organized content. UI elements should be designed for ease of use and accessibility, including considerations for color contrast and font size.
- iii. Accessibility Features: The portal should comply with accessibility standards to support users with disabilities, including screen readers and keyboard navigation. Features should include alternative text for images, accessible forms, and customizable display settings.

K. Security and Privacy:

- i. Data Encryption: The system must implement encryption protocols to protect sensitive user data during transmission and storage. Encryption standards should comply with industry best practices and regulatory requirements.
- ii. Access Control: The portal should support role-based access control to ensure users only access information relevant to their roles and permissions. Authentication mechanisms should include multi-factor authentication for added security.
- iii. Privacy Compliance: The system must comply with privacy regulations, such as GDPR or other relevant data protection laws. Users should have control over their personal data, including options to view, update, and delete their information.

4. Technical Support related FRS

A. Technical Support Access:

- i. End User Access: End users should be able to log in to the portal to access support services and raise tickets for issues encountered in various modules. Users must be able to reopen tickets that were not closed satisfactorily or were unresolved.
- ii. Support Engineer Access: Support engineers should log in using unique user IDs and passwords to access and manage support tickets. The system should track and display tickets assigned to each support engineer.

B. Ticket Management:

- i. Ticket Creation and Details: Users must capture a summary of the issue, provide a detailed description, specify location details, and indicate the criticality of the request. Users should be able to attach screenshots or other relevant files to the ticket.
- ii. Ticket Categorization: The system should categorize tickets and allow updates to the request categories as needed. Support engineers should be able to search for tickets by module name or ticket number and view tickets based on category.

C. Service Request Tracking:

- i. Unique Service Request Numbers: The system should automatically generate a unique service request number upon ticket submission. Users should use this number to track the status of their requests.
- ii. Tracking and Notifications: Users should receive SMS and email alerts upon ticket registration and closure. The system should provide real-time updates on ticket status based on the unique request number.

D. Service Level Agreements (SLA) and Timeliness:

- i. SLA Management: The system should flag tickets with SLA requirements and include a timer to track SLA compliance. Alerts should be generated for engineers based on defined timelines for high, medium, and low priority requests.
- ii. Timeliness Tracking: The system should capture and adhere to defined timelines for service requests categorized as high, medium, or low priority.

E. Ticket Resolution and Closure:

- i. Resolution Documentation: Support engineers must capture details of the solution provided, including comments from both the engineer and the end user. The system should record root cause analysis and actions taken before closing the ticket.
- ii. Feedback Collection: Users should provide feedback on the resolution, which can be searched by ticket number or other details.

F. Reporting and Performance Monitoring:

- i. Report Generation: The system should provide pre-configured and customizable reports to monitor service performance. Reports should include statistics on calls logged, average resolution duration, SLA deviations, and other key metrics.
- ii. Knowledge Base Management: Support engineers should add frequently asked questions (FAQs) to the knowledge base for user reference. The system should facilitate the addition and updating of knowledge base entries.

G. Escalation and Alerts:

- i. Escalation Process: Support engineers should have the ability to escalate tickets to technical support engineers if they cannot resolve the issue. The system should handle ticket escalation and notify the appropriate technical support engineer.
- ii. Alert Notifications: Alerts (SMS/Email) should be sent to callers upon ticket registration and closure to keep them informed of their ticket status.
- iii. The system should be designed with a user-friendly interface to streamline ticket management and resolution processes.
- iv. Integration with backend systems for real-time updates and accurate data management is essential.
- v. Regular maintenance and updates should be performed to ensure system reliability and security.

5. Mobile Application related FRS

A. User Login and Access:

- i. Seafarers' Login: Seafarers should have the ability to log in to the system using secure credentials to access all relevant services, including the submission of applications and viewing of personal information.
- ii. SWFS Officers' Login: SWFS officers should be able to log in to manage applications, perform administrative tasks, and access the system functionalities related to their roles.

B. Gratuity Claim Management:

- i. Gratuity Claim Application: Seafarers should be able to submit applications for gratuity claims through an online form that captures all necessary information. The system should allow seafarers to attach required documents and view the status of their applications.
- ii. Processing and Recording: SWFS officers should be able to review, process, and record gratuity claim applications. The system should facilitate tracking and management of each claim through various stages until approval or rejection.

C. Welfare Scheme Application Management:

- i. Welfare Scheme Application Submission: Seafarers should be able to submit applications for welfare schemes using an online form that captures the required details. The system should allow seafarers to track the status of their applications and receive updates.
- ii. Scrutiny, Verification, and Approval: Responsible SWFS officers should be able to scrutinize, verify, and approve welfare scheme applications. The system should facilitate each step, from initial review to final approval, ensuring all necessary validations are performed.

D. Information Viewing and Tracking:

- i. Gratuity and Welfare Details: Seafarers should be able to view detailed information about their gratuity and welfare scheme applications, including any outstanding balances, statements, and application statuses.
- ii. Application Status Tracking: The system should allow seafarers to monitor the progress of their gratuity and welfare scheme applications. Notifications or alerts should be sent to inform them of changes in status, such as approvals or requests for additional information.
- iii. The system should ensure a user-friendly interface for both seafarers and SWFS officers, promoting ease of use and efficient processing of applications.
- iv. The system should incorporate secure login mechanisms and data protection protocols to ensure the confidentiality and integrity of user information.
- v. Regular updates and maintenance should be carried out to ensure the system remains functional and responsive to user needs.

6. MIS and Dashboard related FRS

A. MIS Reporting:

- i. Scheme Utilization Reports: The system should generate detailed MIS reports on the utilization of various schemes, providing insights into the distribution and effectiveness of funds. Reports should include metrics such as the number of claims processed, amounts disbursed, and remaining balances.
- ii. Fund Management Reports: The system should provide comprehensive reports on fund management, tracking inflows, outflows, and overall financial health. These reports should be accessible to authorized users for regular monitoring and strategic planning.

B. Dashboard and Visualization:

- i. Graphical Representations: The system should offer a dashboard with graphical representations such as charts, graphs, and pie charts for better data interpretation. Visualizations should cover key metrics, trends, and comparisons to enhance user understanding.
- ii. Customization Based on Roles: The dashboard should be customizable according to user roles and preferences. Users should be able to select the metrics they want to monitor, the type of visualizations they prefer, and the layout of their dashboard.

C. Advanced Data Analytics:

- i. Trend and Pattern Analysis: The system should facilitate advanced data analytics to identify trends, patterns, and anomalies in scheme utilization, fund management, and other critical areas. This capability should help in predicting future needs and improving decision-making processes.
- ii. Anomaly Detection: The system should provide tools to detect anomalies in data, such as unusual spikes in claims or unexpected patterns in fund disbursement. These insights should be highlighted on the dashboard for immediate attention.

D. User Experience and Interface:

- i. User-Friendly Design: The dashboard should feature a user-friendly interface that allows users to easily navigate and interpret data. The system should include intuitive controls for customizing dashboards and generating reports.
- ii. Real-Time Data Updates: The system should ensure that all data displayed on dashboards and in reports is updated in real time, providing users with the most current information available.

Annexure- III - Circulars

Relevant SWFS circulars are annexed

Annexure- IV – Technical Requirements Specification

1. Manufacturer Authorization Form (MAF)

#	Components	Submitted	Document Reference
1	Cloud Network security Services		
2	Cloud Application and Platform Services		
3	Firewall Services		
4	IPS Services		
5	DDOS Services Cloud DC & DR		
6	Antivirus + EDR Services for Cloud DC & DR		
7	Web Application Firewall Services		
8	DLP Service		
9	Additional Security Requirements		

2. Cloud Network Security Services

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
Cloud Data Center Security				
1	Cloud service provider should offer redundant availability zones (AZs) and regions for resilience in case of failures.			
2	Continuous monitoring of access using IAM policies, audit logs, and cloud security monitoring tools (e.g., AWS Guard Duty, Azure Security Center, Google Security Command Center).			
3	Multi-factor authentication (MFA) must be enforced for access to cloud consoles, APIs, and management tools.			
4	Cloud-native fire protection mechanisms, including automated fire risk assessments and backup procedures (e.g., geo-redundant data storage).			
5	Data centers should adhere to cloud-specific physical security certifications (ISO 27001, SOC 2 Type II, FedRAMP).			
6	Geo-redundant backup and disaster recovery planning across multiple cloud regions to ensure high availability and compliance.			
Cloud Server Security				
7	Cloud servers should have network-based security controls (e.g., security groups, cloud-native firewalls, host-based IDS/IPS like AWS Inspector, Azure Defender). Use cloud-agnostic IDS/IPS solutions.			
8	Use hardened cloud VM images with minimal services enabled (e.g., CIS-hardened AMIs for AWS, Azure			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
	Security Baselines).			
9	Enforce secure guest OS configurations through automated tools (e.g., AWS Systems Manager, Azure Policy, Google OS Config).			

3. Cloud Application and Platform Services

#	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	Ensure secure, isolated applications on a cloud-based PaaS using containerization (e.g., Kubernetes, AWS Fargate, Azure Kubernetes Service) and microservices architecture.			
2	Follow secure cloud application development guidelines, including secure coding standards (e.g., OWASP, NIST), API security best practices, and encryption enforcement.			
3	Implement automated security testing for vulnerabilities in applications before deployment using cloud-native tools (e.g., AWS Code Guru, Azure DevOps Security, Google Cloud Security Scanner).			
4	Automate patch management and change control using cloud-native services (e.g., AWS Systems Manager Patch Manager, Azure Update Management, Google Cloud OS Patch Management).			
5	Ensure patches are tested in staging environments before production deployment using automated CI/CD pipelines (e.g., GitHub Actions, AWS Code Pipeline, Azure DevOps).			

4. Firewall Services

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	Solution/offering should be a cloud-based Firewall service.			
2	The proposed solution should have certifications relevant to cloud security, such as SOC 2, ISO 27001, FedRAMP, or equivalent.			
3	The cloud firewall should provide			

	firewall, IPS, and VPN (both IPSec and SSL) functionality in a single solution.			
4	Ensure the firewall is fully virtualized and supports cloud-native horizontal scaling rather than relying on hardware-bound architecture. threats.			
5	Firewall should support concurrent VPN peers (IPSec/SSL) as required.			
6	Firewall should support minimum VLANs as required in the project.			
7	Firewall should support virtual firewalls from day one and allow license-based scalability when needed.			
8	Firewall should provide application inspection for DNS, FTP, HTTP, SMTP, LDAP, VLAN, VXLAN, MGCP, RTSP, SIP, SQLNET, SNMP, etc.			
9	Use a distributed cloud firewall that dynamically scales across regions and availability zones instead of hardware-based clustering.			
10	Ensure the IPS solution supports cloud-native HA using multiple availability zones without requiring dedicated hardware.			
11	Firewall should support routed & transparent modes, with the ability to set modes independently in multi-context environments.			
12	In transparent mode, the firewall should support ARP inspection to prevent Layer-2 spoofing.			
13	Should support non-stop forwarding (NSF) in HA mode to ensure minimal downtime during failover.			
14	Firewall should support NAT (static, dynamic, PAT, destination-based NAT, NAT66, NAT64, NAT46).			
15	Should support Remotely Triggered Black Hole (RTBH) for BGP security.			
16	Firewall should support RESTful API for integration with third-party solutions, including Software-Defined Networking (SDN).			
17	Firewall should support stateful failover of sessions in Active/Standby or Active/Active mode.			
18	Firewall should replicate NAT translations, TCP/UDP connection states, ARP table, ISAKMP & IPSec SA's, SIP signaling sessions during failover.			
19	Firewall should support client-based and clientless SSL VPN connections from day one. Use cloud-native traffic analysis			

	services rather than dedicated hardware-based monitoring solutions.			
20	Firewall should comply with VPN/ICSA for interoperability.			
21	Should support pre-shared keys & digital certificates for VPN peer authentication.			
22	Should support Perfect Forward Secrecy (PFS) & Dead Peer Detection (DPD) for VPN connections.			
23	Should support NAT-T for IPSec VPN.			
24	Routing Features: Should support IPv4 & IPv6 static routing, RIP, OSPF v2 & v3, BGP, PBR, VLAN, VXLAN for PBR, and BGPv6.			
25	Firewall should support PIM multicast routing.			
26	Firewall should support SLA monitoring for static routes.			
27	Firewall should allow management of firewall policies via CLI, SSH, and inbuilt GUI.			
28	Firewall should support automatic software updates to check for and download the latest versions.			

5. Intrusion Prevention System (IPS) Services

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	Solution/offering should be a cloud-based IPS service.			
2	The IPS should be capable of detecting and blocking all known, high-risk exploits along with their underlying vulnerabilities.			
3	The IPS should be capable of detecting and blocking zero-day attacks without requiring an update.			
4	The IPS should employ full seven-layer protocol analysis for detecting threats across various internet protocols and data file formats.			
5	The IPS should be able to detect and block malicious web traffic on any port.			
6	The IPS should detect attacks inside IPv6 encapsulated packets.			
7	The IPS should be capable of active blocking of traffic based on pre-defined rules to prevent attacks before damage occurs.			
8	The IPS should detect intrusion attempts such as unauthorized access, pre-attack			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
	probes, DoS/DDoS attacks, brute force, and zero-day attacks.			
9	The IPS should allow traffic filtering based on IP address/network range, protocol, and service to enforce organizational security policies.			
10	The IPS should support Active/Passive and Active/Active modes for High Availability to prevent session drops.			
11	The IPS should allow policy assignment based on device, port, VLAN tag, and IP address/range.			
12	The IPS should offer built-in responses including console alerts, database logging, email notifications, SNMP traps, and packet captures.			
13	The IPS should operate in asymmetric traffic environments and provide vulnerability/exploit filters for protection.			
14	The IPS should use machine learning to prevent attacks from obfuscated script-based content and detect domain generation algorithms used for malware downloads.			

6. Distributed Denial-of-Services (DDoS)

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	The solution should be a cloud-based DDoS mitigation service.			
2	The solution should be capable of detecting and mitigating multiple attack vectors simultaneously, covering OS, Network, Application, and Server-side attacks.			
3	The solution should be able to detect, inspect, and mitigate both IPv4 & IPv6 attacks.			
4	The solution should provide real-time DDoS detection using statistical anomaly-based detection mechanisms.			
5	The system should provide near-real-time traffic graphs and tables for anomaly detection and alerts.			
6	The system should have zero-day DDoS flood attack detection and			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
	prevention capabilities.			
7	The system should allow rule-based notification alerts based on anomaly severity and traffic thresholds.			
8	The system should have portal-based user access, with different roles and permission levels for administrators and operators.			
9	The system should provide real-time dashboards for alert activity and mitigation status.			
10	The system should allow configuration rollback to previous versions for recovery.			
11	The system should support automated anomaly classification (e.g., Possible Attack, False Positive).			
12	The system should allow traffic diversion for selective mitigation without impacting legitimate traffic.			
13	The system should allow automatic fingerprint downloads from a central server to recognize ongoing threats.			
14	The system should provide alert-based notifications via SYSLOG, SNMP, or SMTP for mitigation events and service degradation.			

7. Anti-Virus + EDR Services for Cloud DC & DR

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	Cloud-based Anti-virus and EDR solution should be deployed on all servers/VMs in the Cloud DC & DR.			
2	The anti-virus definitions and security updates should be automatically downloaded and applied from a centralized cloud-based management system.			
3	The solution should provide real-time, scheduled, and on-demand scanning capabilities to detect and mitigate threats.			
4	The EDR solution should provide behavioral analysis, heuristic scanning, and threat intelligence integration for			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
	advanced threat detection.			
5	The solution should include firewall, intrusion prevention, and exploit prevention features for endpoint security.			
6	The anti-virus and EDR solution should detect and prevent zero-day malware, ransomware, and advanced persistent threats (APT).			
7	The solution should support automated incident response with forensic analysis and rollback capabilities.			
8	The cloud-based platform should provide centralized policy enforcement, reporting, and visibility across all endpoints.			
9	The solution should have data leak prevention (DLP) and application control to prevent unauthorized data exfiltration and application misuse.			
10	The cloud-native EDR solution should block blacklisted applications and prevent malicious code injection in trusted processes.			

8. Web Application Firewall (WAF) Services

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	The WAF solution should be cloud-native and fully managed, providing protection for web applications hosted in the Cloud DC & DR.			
2	The solution should address OWASP Top Ten security vulnerabilities, including SQL Injection, Cross-Site Scripting (XSS), Broken Authentication, and others.			
3	The WAF should prevent Brute Force, DDoS, unauthorized access, and reconnaissance attacks.			
4	Should support positive and negative security models for threat protection.			
5	Should have built-in caching, compression, and SSL acceleration for optimized performance.			
6	Should have integrated SSL Offloading and TLS termination for encrypted traffic inspection.			
7	Should have basic load balancing capabilities for high availability.			
8	The WAF should inspect application output, log actions, and enforce security policies dynamically.			
9	Should inspect HTML, DHTML, CSS, HTTP, HTTPS (TLS), and other web protocols.			
10	WAF should support dynamic source IP blocking to mitigate malicious attacks.			
11	Should inspect XML traffic along with HTTP/HTTPS requests.			
12	Should support WebSocket traffic inspection for application security.			
13	Should support inline bridge and proxy mode deployment.			
14	Should have an option for Reverse Proxy mode configuration.			
15	The WAF should have actions to block/drop malicious requests and IPs.			
16	Transactions matching attack signatures should be blocked using heuristics-based detection.			
17	Should include a pre-configured attack signature database with real-time updates.			
18	Admins should be able to modify or add custom attack signatures.			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
19	WAF should support automatic signature updates for up-to-date threat intelligence.			
20	Should support various normalization methods (URL-decoding, Null byte handling, Unicode encoding, etc.).			
21	Should support different policies for different application sections.			
22	Should automatically learn web application structure and adapt to changes.			
23	Should perform behavioral learning for anomaly detection and policy recommendations.			
24	WAF should maintain low latency and high throughput for performance optimization.			
25	Should support uploading SSL certificates and key pairs for secure applications.			
26	The WAF should have anti-automation protection against bot attacks.			
27	Should provide out-of-band management capabilities.			
28	The WAF should support web-based centralized management and reporting.			
29	WAF should be deployable with minimal impact on existing applications and network.			
30	Should generate custom or pre-defined graphical reports on demand.			
31	Should provide a dashboard for system status and web activity monitoring.			
32	Should generate detailed event reports with filtering options (date, IP, incident types, geo-location).			
33	Should support multiple report formats (PDF, XML, HTML, etc.).			
34	Each HTTP transaction should have a unique transaction ID for logging.			
35	WAF should support log uploads to external logging servers (via FTP, SFTP, SCP).			
36	Should provide real-time notifications (Email, Syslog, SNMP Trap, HTTP push).			
37	Should log full session data for suspicious transactions.			
38	Should allow automatic policy			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
	relaxation for fine-tuning.			
39	The solution should allow manual acceptance of false positives.			
40	Should be able to recognize and trust specific hosts.			
41	In passive mode, WAF should simulate impact of rule changes.			
42	Should support clustering and shared policy deployment across multiple WAFs.			
43	The WAF should support virtual environments and cloud-based deployments.			
44	Should provide load balancing in active-active environments.			
45	Should integrate with LDAP and RADIUS authentication.			
46	Should support troubleshooting commands (PING, traceroute).			
47	Should allow NTP server configuration for time synchronization.			
48	Should support both IPv4 and IPv6 networks.			

9. Data Leak Prevention (DLP) Services

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
1	The solution should be a cloud-native and fully managed DLP service.			
2	Should provide centralized web-based management for system administration.			
3	Ensure compatibility with industry-standard SAML, OAuth, and OpenID for multi-cloud support.			
4	The solution should maintain detailed audit logs tracking all admin activities, including:			
4a	Creation, deletion, and updating of DLP user groups.			
4b	Creation, deletion, and updating of DLP user roles.			
4c	Modifications to DLP network policies and configurations.			
4d	All logins to the web console for monitoring and administration.			
4e	Creation, deletion, and modification of DLP policies.			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
5	Should support agent-based scanning with incremental scans to optimize performance.			
6	Should provide granular role-based access control (RBAC) for administrators and security teams.			
7	Ability to define system administration roles separately from policy and incident management roles.			
8	Ability to create roles for policy authors without permission to deploy policies live.			
9	Ability to define roles that can only view security incidents but not modify them.			
10	Should support rules based on cloud directory attributes (e.g., business unit, department).			
11	Should provide predefined compliance policies for regulations like GDPR, HIPAA, PCI DSS.			
12	Ability to define policies for individual users or groups, with exception management.			
13	Policies should be applicable across data in transit, at rest, and in use in the cloud.			
14	Should enforce different policies based on network connectivity (on-prem vs. remote/cloud).			
15	Should provide consistent detection capabilities across cloud and endpoint devices.			
16	Should support policy segregation for content discovery and action rules.			
17	Should offer a unified web-based console for policy management across all cloud workloads.			
18	Should monitor and protect data in motion across cloud-based communication channels:			
18a	Cloud email (Microsoft 365, Google Workspace).			
18b	Cloud file-sharing services (OneDrive, Google Drive, Dropbox).			
18c	Cloud messaging platforms (Slack, Microsoft Teams, WhatsApp, etc.).			
19	Use cloud-native traffic analysis services rather than dedicated			

Sr. No.	Description of Requirement	Compliance (Yes/No)	Details of Reference Document for Verifying Compliance	Reference Page No
	hardware-based monitoring solutions.			
20	Ability to scan cloud storage (S3, Azure Blob, Google Cloud Storage, SharePoint Online, etc.).			
21	Support for definable scan schedules for cloud environments.			
22	Ability to measure scanning efficiency and balance workload dynamically.			
23	Should support full and partial fingerprinting for structured and unstructured data.			
24	Role-based access should allow summary reports without exposing detailed incidents.			
25	Should include pre-built content classification templates and contextual detection:			
25a	Keyword-based and machine-learning-based detection.			
25b	Detection of encrypted or password-protected files.			
25c	Fingerprinting and proximity-based detection.			
26	Should detect content based on actual file content, not just file extensions.			
27	Should provide out-of-the-box predefined policies for cloud data protection.			
28	Custom policies should allow classification based on metadata, sender, recipient, file type, risk level, and severity.			
29	Ability to assign severity ratings (High/Medium/Low) to incidents.			
30	Should define and enforce data security throughout the customer data lifecycle.			
31	Should support secure data isolation mechanisms for multi-tenant cloud environments.			
32	Should perform regular cloud backups, with customer access to audit logs.			
33	Should provide data erasure capabilities to ensure complete data deletion upon request.			

10. Additional Security Requirements

Sr. No.	Security Component	Description of Requirement	Compliance Standards/Best Practices
1	Cloud Security Posture Management (CSPM)	Solution must detect and remediate cloud misconfigurations, provide continuous monitoring, and align with industry compliance frameworks.	NIST SP 800-53, CIS Benchmarks, ISO/IEC 27001:2022
2	Cloud Workload Protection Platform (CWPP)	Must provide runtime protection for VMs, containers, and Kubernetes, including IDS/IPS, malware detection, and vulnerability management.	CIS Benchmarks, NIST 800-190, PCI DSS Requirement 5
3	Cloud Identity & Entitlement Management (CIEM)	Must enforce least-privilege access, monitor excessive permissions, and support MFA, RBAC, and Just-In-Time (JIT) access controls.	ISO 27002:2022, NIST 800-63, CIS IAM Best Practices
4	Secure Web Gateway (SWG)	Solution must protect against web-based threats, enforce browsing policies, inspect SSL/TLS traffic, and integrate DLP policies.	GDPR (Article 32), ISO 27001 Annex A.13, PCI DSS Requirement 4
5	Threat Intelligence & Dark Web Monitoring	Must continuously monitor cyber threats, detect leaked credentials, and integrate with SIEM for proactive threat detection.	NIST Cybersecurity Framework, MITRE ATT&CK, GDPR (Article 33)
6	Serverless & API Security	Must provide protection for APIs and serverless applications against OWASP API Top 10 threats, enforce authentication, and detect anomalies.	OWASP API Security, NIST SP 800-204, ISO 27001: A.14
7	Zero Trust Network Access (ZTNA)	Solution must enforce identity-based access, replace traditional VPNs with granular controls, and prevent lateral movement.	NIST 800-207, CISA Zero Trust Model, ISO 27001 Annex A.9
8	Cloud-Native SIEM & SOAR	Must provide centralized logging, automated incident response, correlation with threat intelligence, and compliance with security monitoring regulations.	ISO 27035, NIST 800-92, PCI DSS Requirement 10
9	Data Security Posture Management (DSPM)	Must classify and secure sensitive data across multi-cloud environments, ensuring encryption and access controls.	GDPR (Article 5), HIPAA Security Rule, ISO 27018
10	Cloud Forensics & Incident Response (CFIR)	Solution must capture and analyze cloud activity logs, automate incident response, and store forensic evidence securely.	NIST 800-86, ISO 27037, PCI DSS Requirement 12.10
11	Cloud-Based Deception Technology	Must deploy decoys and honeypots to detect insider threats and lateral movement, providing high-fidelity alerts.	MITRE Engage, NIST Cybersecurity Framework, CIS Control 7

Undertaking from Vendor:

- 1 Vendors must detail how their solutions meet each requirement.
- 2 Proposals should include references to compliance frameworks and certifications.
- 3 Solutions must be cloud-agnostic, fully managed, and independent of any single cloud service provider (AWS, Azure, GCP, etc.).
- 4 Vendors should specify integration capabilities with existing security tools (e.g., SIEM, IAM,

- threat intelligence platforms).
- 5 Any additional security features beyond the listed requirements should be highlighted.

