

Tender Document
For
Supply, Installation and Setting to Work of
Gangway Kiosk & Integration
On
Fleet Ships

For
The Officer-in-Charge
C/o Software Engineering Group (SEG)
FMU & SS Complex
Naval Dockyard
Mumbai - 400 023

Ref: SEG/313/ISMS/Fleet Kiosk

Date: 07 MAY 09

Introduction

1. ISMS (Integrated Ship Management System) application software is being implemented in the Indian Navy. One of the modules of above applications pertains to recording details of personnel moving in and out from the ship for various reasons viz. liberty, duty ashore, short leave etc.
2. Gangway module requires a Kiosk setup attached with swipe terminals for exploitation by the end users. Gangway module pertains to recording details of personnel moving in and out from the ship for various reasons viz liberty, duty ashore, short leave etc. Record of sailors proceeding on liberty would be authenticated by the information regarding their MLR status, duty roster, recommendation of DO, approval by OOD etc. Considering large number of sailors expected to use the ISMS node at gangway, there is a requirement to provide appropriate facilities for recording their details while proceeding on liberty, duty ashore, short leave etc in a smooth and efficient manner in order to avoid long queues and Bottle-necks at Gangway.
3. This tender pertains to design, development and manufacture, supply and installation of 10 in no Gangway Kiosks which are required to be designed, developed, manufactured and installed onboard ships at Mumbai for undertaking Gangway operations pertaining to personnel movement. The work involves development of suitable kiosk software and its integration with Integrated Ship Management System (ISMS) application software with SQL 2005/2008 database.

General Information on the Tender

4. General information about the tender enquiry is as under:
 - (a) Tender Reference No. SEG/313/ISMS/Fleet Kiosk dated 07 May 09
 - (b) Pre-bid conference time and date: - 1100 Hrs on 19 May 09.
 - (c) Tender closing time and date: - 1600 Hrs on 09 Jun 09.
 - (d) Technical Bid Tender opening time and date:-1430 Hrs on 11 Jun 09.
 - (e) Date for Commercial bid opening will be intimated separately to all technically qualified firms.
 - (f) Tender is to be forwarded to this office during working days from 0800 hrs to 1700 hrs.
 - (g) Validity of quote should be for at least 120 days from tender opening date.
 - (h) Address for communication –

Officer-in-Charge
Software Engineering Group
FMU & SS Complex
Naval Dockyard
SBS Road
Mumbai – 400 023
(Tel – 022-22751876, Fax – 022-22691755)
Email - wncsegmb-navy@nic.in

5. The following details should be clearly written on the sealed envelope of bids:-
 - (a) Cover containing separately sealed Technical and Commercial bids marked separately with Tender enquiry No. and Date.
 - (b) EMD will be in a separate cover inside the Technical bid envelope.
 - (c) Technical bid opening date (as given in the tender enquiry).
6. **Payment Terms.** The work will be completed as per stage-wise completion of contract, no advance payment will be made and payment of bills will be through PCDA (Navy), Mumbai after satisfactory completion of the each stage. The bills – Bank A/c, MICR Code, and bank name to be given to enable e-payment by PCDA (Navy), Mumbai.
7. **Acceptance of Tender.** The competent financial authority reserves the right to accept or reject any or all tender without assigning any reasons whatsoever.
8. **Arbitration.** In case of arbitration with the firm and this unit on any issue, the final decision would be that of Flag Officer Commanding-in-Chief Western Naval Command, Mumbai – 400 023.
9. **Risk & Expenses.** In the event of the supplier failure, to honour the contractual obligation within the stipulated period, Risk of expense will be retorted to at the cost and expenses of the supplier.
10. **Standard Conditions Of Contract.** All expenditures of the Ministry of Defence are subjected to the standard conditions of contract as per Defence Procurement Manual 2008, which may be browsed on the mod.nic.in web-site.
11. **Life Cycle Support.** All vendors are required to provide life cycle costing for the items delivered for a period of 05 years after warranty period completion. The life cycle costing must include charges for technical services required to maintain the kiosk hardware and software for the Indian Navy. The cost needs to be reflected as lumpsum %(percentage) of the total contract cost, excluding the service tax applicable at the time of AMC contract.

Technical Requirements

12. A Quarter- Master (QM) table with Kiosk is required to be fabricated and supplied for recording details of the naval personnel in a fast, efficient and simple manner. The QM table is required to be integrated with the ISMS application. The table should be fitted with swipe terminals on the front side. The swipe terminals fitted on the table should have requisite number of keys to select the mode of the Sailor movement viz. Liberty In and Liberty Out, Duty Ashore In and Duty Ashore Out, Visitors movement viz. Visitor Out and Visitor In and Officer Movement viz. Officer Out and Officer IN. The user should select the appropriate mode of movement on the keypad provided and then swipe the card with bar code to record his details. The swipe terminal data should be directly interacting with the MS SQL server 2005/2008 database of ISMS application without requirement for third party software tools to ensure compatibility.

13. The swipe terminal should give an alarm if an unauthorised attempt to swipe or if a person who has been denied the exit from the ship through ISMS software application tries to leave the ship by liberty out/ duty ashore out/ short leave. The swipe terminal should always have two way communications with ISMS application server through Ethernet when connectivity is available with the server. The application should also be able to record all movements as per the last recorded exit and entry validations when connectivity is not available with the main server. There should be no limitations in the number of records that can be maintained in offline mode and this needs to be clearly brought out in the firm's proposal. The swipe terminal when it switches over from offline to online mode the database of the swipe terminal should be synchronised seamlessly with the server database (MSSQL 2005/2008).

Software Requirements

14. The application should be Windows based for installation in Windows XP SP2 and above/Windows Vista SP1 & above. It should be standalone application with all the security features for integrity, communication with server through SSH/SSL encrypted channels. The application should not store any data in the local PC unless operating in the offline mode. The application should be .net 2008 based using .net framework 3.5 and database shall be MS SQL 2005/2008 based. The database with tables, Stored Procedures and functions is already developed and available as part of ISMS application. The application for Kiosk shall interact with the same database an barcode interface shall insert data into ISMS database exactly as undertaken through manual entries in ISMS application. The firm would be required to facilitate barcode printing feature as part of SQL reports in ISMS web application and other additional features as per following to facilitate compatibility and smooth operations in either applications :-

- (a) Barcode for Employee-ID of the person.
- (b) Generation of Visitors Gate Pass with Barcode as per Pass No.
- (c) Create a feature for entering details of Watch-keepers by various departments on day-to-day basis. The watch-keepers should be allowed to proceed ashore under Duty Ashore /Spl. Liberty In/Out category in the Kiosk application.

15. The arrangement of the swipe terminal table should be such that it should be ergonomically designed to fit within the space available in the writing desk of the person manning the gangway (hereinafter referred in this document as Quartermaster) of the ship. The desk should be attached with the swipe terminals on the front side and LCD panel monitor alongwith the horizontal CPU should be housed inside the desk. The LCD monitor should be facing upwards such that the quartermaster standing at the table is able to view the screen at all times under bright daylight. The 8-port switch should be housed in the quartermaster table to link webcam and swipe terminals and link the ships network through a Ethernet cable.

16. The quartermaster table in the current scenario is made of wood and the new quartermaster table is to be made of material preferably hardened FRP which is collapsible & foldable, light-weight, weather-resistant, water & chemical resistant. The entire arrangement shall be water and dust proof to prevent damage. The PC part of the table should be detachable for securing it at a different location when not in use into a stowage box which is easy to carry. The LCD monitor should be all-weather proof outdoor sunlight / day-light readable, marine grade, rack mounted, with flipping arrangement for horizontal/vertical viewing.

17. The swipe card shall be the Identity card issued by Indian Navy. Initially, the Identity card shall be affixed on the rear side at a suitable portion with a sticker printed with barcode so that the main particulars of the identity card are not obscured. The Bar code printing shall be done onboard the ship/establishment wherein the arrangement needs to be setup. Barcode printing setup and the associated software shall be part of the supply of this tender. The barcode generated shall be unique based on the unique personal number of the user. However, the smart cards are also being introduced in the Navy and the Kiosk will be compatible to smart card as per SCOSTA-CL standards for smart card integration.

18. The swipe terminal system is to be fitted with a water-tight/weather proof webcam for recording the movements with date-time stamp of personnel using the swipe terminals. The recorded data is to be streamed on the server as separate files and shall not form part of the database used in ISMS application. New video files are to be created every 01 hour and video file names are to be identified with date time particulars.

19. The swipe terminal system should be fitted with weather proof and ruggedised connectors for the incoming power supply cable and the Ethernet cable. The input power supply to the system and accessories inside the system should be routed through a 1.0 KVA UPS with min 01 hour backup to be housed at a suitable location within the system and preferably the accessories like web-cam and swipe-terminal etc. with the kiosk should be USB powered or POE. The UPS incoming supply to be rated for 230V, 50-60Hz, 1Ph.

20. **The work also entails installation and integration of Kiosk to the ship's LAN** at a maximum of 04 positions on the ship. The total cumulative cabling work within a ship will not exceed 150 m and STP / Armoured CAT 6 cable will be used and secured properly using cable trays/pipes and ducts available on the ship without compromising the water-tight and air-tight integrity of the compartments on the cable-route to the nearest hub/switch to join the ship's LAN.

21. E-CAT-6 cabling and other accessories/work further described in the bill of materials placed at Appendix 'A'. Unit cost of each item of work given by the Contractor

will be applicable for all cost calculations. The extension/augmentation of ship's LAN network is to be undertaken with supply and installation of network devices/items as per BOM at Appendix 'A' without disturbing the water-tight & gastight integrity of the ship.

22. Commissioning of the system and demonstration for its first time use shall be the responsibility of the vendor. The equipment shall be repaired free of cost by the vendor during the warranty period which shall be 24 months from the date of acceptance of the last kiosk and final submission of fourth stage bills.

Instructions to firms participating in the Tender

23. Prospective firms are requested to acknowledge the receipt of the 'INVITATION TO TENDER' documents and inform SEG (Mb) of their intention in regard to the submission of the TENDER. The firm shall prepare the separately the Unpriced Technical Bid and the Priced commercial proposal in a sealed envelope with a statement on conformance to abiding to all technical specifications of the tender document.

24. The commercial proposal is to be completed in all respects with conformance to all the terms and conditions of the tender. Each part shall be sealed separately in double cover super scribed clearly **SEG (Mb) – Supply, Installation and Setting to Work of QM table kiosk & Complete Integration/Supply of LAN hardware for Fleet Ships**. All covers should have the name and address of SEG (Mb) clearly indicated. The signature shall be in long hand in ink by the legally authorised principal officer of the firm.

(a) Proposal shall be type written (or printed) on firm's letterhead arranged into sections with the pages numbered consecutively. The commercial bid shall be signed by legally authorised principal officer of the firm on each page. A letter from the corporate head authorizing the above person to sign and negotiate on behalf of the firm will be required to be submitted along with the proposal.

(b) The firm shall clearly state in a separate section, any exceptions or deviations to the specifications and conditions of the **INVITATION TO TENDER**. Unless exceptions are specifically listed, the **INVITATION TO TENDER** specifications shall apply. In case the **INVITATION TO TENDER** does not include any aspect of the services required to be rendered for the said implementation and is deemed essential for completion of the project, the firm shall include such work in its **TENDER** and provide the same.

(c) The firm shall acquaint himself with the conditions/limitations and official regulations under which the services are to be performed and should carefully examine all the information as may be furnished to them in writing from time to time. Failure to comply with above requirements will not relieve the firm of its obligations in the event of this tender being accepted. Unless otherwise specifically stated in the tender, it will be assumed that the firm without any reservations accepts all terms and conditions of this invitation to tender.

Preparation of bids.

25. The proposal / bid shall be type written (or printed) on the firm's letterhead arranged into sections with the pages numbered consecutively.

26. **Language of Bid** - The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder & SEG (MB) along with supporting documents and printed literature shall be written in English.

27. The firm shall prepare the bids in 02 (Two) parts as under in separate sealed envelopes and both Tech bid and Commercial bid envelopes shall be kept in a single large envelope and sealed:

PART I	Technical Bid	Volume I	Technical proposal
		Volume II	<u>Un-priced</u> Commercial proposal.
PART II	Commercial Bid		Priced commercial proposal

28. **Part 1 Technical Bid.**

(a) Volume I (Technical proposal). Technical proposal is to be complete in all respects so as to facilitate detailed technical evaluation along with the un-priced proposal containing all the terms and conditions of the tender.

(b) Volume II (Un-priced commercial proposal). This shall include, but not necessarily be limited to, Completed tender in the same (ad seriatim) format as that of the **Bill of Material** given at **Appendix 'A'** after filling in all quantities and other technical details, but without filling in prices/rates.

29. **Documents Comprising the Technical Bid Envelope.**

(a) Documentary evidence establishing that the Bidder is eligible to Bid.

(b) Terms and Conditions of Contract (TCC) with a view to meet the product specifications as described in Section - 3 and duly signed by the Bidder.

(c) Product Brochures providing all necessary specifications.

(d) It is mandatory that the Technical part should clearly spell out the detailed scope of services to be rendered and associated support hardware to be supplied by the firm to which the priced quotation shall pertain.

(e) Tender Fee as DD for **Rs 100/-** (Rupees One Hundred Only) and EMD for **Rs.76,800/-** (Rupees Seventy Six Thousand Eight Hundred Only) by your firm in the form of separate Demand Drafts / Bank guarantee for each from a nationalised bank in favour of PCDA, Mumbai should be enclosed with the technical bid in separate envelopes. Tender fee is non-refundable.

30. **Part II: Priced Commercial Bid.**

(a) The firm should submit his quotation for all items in the same form as per the Bill of Material in the (Appendix 'A').

(b) Legally authorised principal officer of the firm must sign the **TENDER** on every page in long hand in ink.

(c) The prices for the items shall be inclusive of all custom duties and applicable taxes and are to be quoted in Indian Rupees for delivery at Mumbai premises.

(d) The firm should confirm to all terms & conditions of the contract.

(e) The firm shall obtain the clearance of the draft design drawings customer prior clearance for manufacturing of the item.

31. **Late Delivery Clause.** The firm shall be bound to deliver the various hardware items, complete the installation, integration and testing of the project as per the time schedule projected by the firm and accepted by SEG (Mb) at the time of award of contract, failing which the firm shall be liable to LD clause at the rate of 0.5% per week not exceeding 5% of the undelivered items (of the total project cost) and the same shall be deducted from the payments due. The contract is expected to be undertaken in a time-bound fashion in which the entire positioning of active/passive components, laying of CAT-6 cable), Installation and testing of the entire network is expected to finish within 240 days from the award of the contract. To adhere to the above mentioned time frame the firms are to indicate:

(a) The strength of team and their composition.

(b) The number of supervising staff that will be on site.

32. **Repeat Order.** Indian Navy reserves the right to place an order for not more than 50% quantity at a discounted price within twelve months from the date of supply against the previous quote.

33. **Firm bound by their Quotation.**

(a) The rates quoted in the **TENDER** are to hold good for acceptance for 04 (four) months from the date of opening of the **TENDER**. After the expiry of 04 (four) months the rates are to be confirmed by both the parties before executing the contract.

(b) No Firm can withdraw his **TENDER** or revoke the same within the said period of 06 (six) months.

(c) The rates finalised at the time of awarding the **CONTRACT** shall remain firm during the execution of the **CONTRACT** and no revision whatsoever will be permitted.

34. The TENDER documents sealed and complete in all respects shall be submitted on or before due date in duplicate to –

The Officer-in-Charge
Software Engineering Group

FMU & SS Complex
Naval Dockyard
SBS Road
Mumbai – 400 023

35. The last date for receipt of **TENDERS** by **The Officer-in-Charge, Software Engineering Group, Mumbai shall be 09 Jun 2009, 1600 Hrs.** The bids shall be despatched by registered Indian Postal service or deposited at the Tender Box at the **New Muster Gate, Naval Dockyard.** **TENDERS** received after closing date/time of receipt of **TENDERS** shall be rejected without assigning any reason, thereof.

36. The commercial part will be kept confidential, sealed, secured and unopened until the date of final submission. **TENDERS** received in open condition will be rejected. The discussions and clarifications if any regarding the scope of work shall be undertaken upto 1600 hrs one working day prior to final date of submission of commercial bid. Opening date of the bids will be one working day after the submission of commercial bids.

37. **Rejection of Tender.** SEG (Mb) reserves the right to accept in its sole and unfettered discretion any of the TENDERS or part thereof or to reject any TENDER or part thereof as may be determined by SEG (Mb) in keeping with its interest and without giving any reasons thereof. Such rejection of any TENDER shall not entitle the TENDERER for any claim of incidental costs, charges, expenses, etc. All costs, charges and expenses incidental to preparation, submission and negotiations of the TENDER, the CONTRACT documents etc. shall be borne by the TENDERER. The successful TENDERER shall be intimated by letter/FAX by SEG (Mb).

38. **Scope of Work.** Following is envisaged as the scope of work under this proposal:–

(a) Design, Development, Manufacture and supply of a Quarter Master Kiosk. For guidance brief details of the type of design required is given at Appendix 'B'.

(b) Installation of the LAN components onboard the ship to integrate kiosk with ship's internal admin LAN. This action will involve arranging the cables using cable managers, patch cords and their securing. Proving System integrity gas tight and water-tight connections.

(c) There should be only 02 cables routed from the ship to the quarter master table viz. Ethernet cable and Power supply cable. The cabling routed from the quartermaster table to the nearest RJ45 LAN point and Power point has to be carried out as per the structured cabling norms. The RJ45 connection boxes and sockets should be weather-proof (water & dust proof). . Sufficient length of Cat6 Armoured STP Ethernet patch cord to be provided between RJ45 JB and the quartermaster/ Swipe Terminal System table.

39. **Hardware requirements.** The hardware specifications for reference are as follows:–

(a) **Swipe terminal.** Minimum Specifications :–

- (i) CPU 8/16 bit micro controller.
- (ii) Memory of 128 kb EEPROM.
- (iii) 5000 data storage capacity.
- (iv) Connection topology from reader to pc: Ethernet.
- (v) 3 dual indicators LED for mains power/valid or invalid card/data transmit and receive connectivity.
- (vi) Power supply to operate on 230V, 50-60Hz, 1Ph AC.
- (vii) 15 keys membrane keypad for programming and entering codes
- (viii) Display : 2 x 16 backlit LCD
- (ix) Piezo buzzer audio alarm.
- (x) Needs to be rugged and well protected.
- (xi) Needs to withstand the marine environment.
- (xii) Water and Dust proof.

(b) **Gangway node Swipe Terminal System (Tablet PC)**

- (i) Needs to be rugged and well protected.
- (ii) Needs to withstand the marine environment.
- (iii) Water, dust, weather and shock proof.
- (iv) Material for Swipe terminal system table should be made of material preferably hardened FRP which is light-weight, water and chemical resistant.
- (v) No material which is likely to corrode in marine environment to be used in the Swipe Terminal System. Suitable paint scheme to be used to prevent corrosion of materials.
- (vi) Should be portable and capable of being shifted to different positions on the ship.
- (vii) Disassembling when not in use/ Assembling for re-use should be feasible within 15-20 minutes.

(viii) PC to be of industrial grade installed with metallic keypad (101 Keys) and trackball arrangement. Entire Assembly to be fitted in a rack mounting arrangement.

(ix) LCD monitor to all-weather-proof, Transflective Bright sun-light readable, Marine ruggedised, rack mounted for easy use by the quarter master. LCD monitor to be feasible for flipping to view in horizontal / vertical direction.

(c) **Switches.** 8 Port Access Switch:-

(i) Un Managed, Stackable Cluster-able support

(ii) 8 ports 10/100 Base TX Auto Negotiable.

(iii) 02 Modular slots for at least 06-100 TX or 02-100 FX ports for 02 switches and balance 06 switches (8-port) without Fx ports.

(iv) Temperature: 0~55°C (32~127°F).

(v) Humidity: 5% to 95% (Non-condensing).

(vi) Vibration: IEC 68-2-34.

(vii) Shock: IEC 68-2-27.

(viii) Drop: IEC 68-2-32.

(ix) Standards: IEEE 802.3 (Ethernet), IEEE 802.3u (Fast Ethernet), IEEE 802.3x (full-duplex flow control).

NOTE – MTBF and end of life for the switch has to be mentioned. Switches of indigenous make to be used.

(a) **Cabling.**

(i) Armoured STP CAT-6 cable to be laid from the nearest LAN point inside the ship to the position where the quartermaster table is likely to be placed. There are upto 04 different positions on the ship from which the LAN cable is to be laid to the water and dust proof RJ45 JBs to be installed for the purpose at locations suitable for connecting to the swipe terminal system.

(ii) The swipe terminal system should have an Ethernet switch internally installed for the purpose of extending LAN connectivity to the PC and swipe terminal

(b) CAT-6 patch cords. Factory Fabricated.

- (c) UPS of 01 KVA capacity with battery backup 30 min. backup.
- (d) **Webcam**
 - (i) Adequate resolution (min. 640 x 480) for face recognition at 150 feet
 - (ii) Minimum 90 FPS
 - (iii) Pan/tilt features.
 - (iv) Standards-10/100,802.11b,802.11g.
 - (v) Carl Zeiss lens.
 - (vi) Weather proof.
 - (vii) Modular arrangement for fixing at 04 different locations on ship.
- (e) CAT-6 water and dust proof I/O Boxes.
- (f) Connection between Data Outlets and equipments, Patch panels and switch ports shall be by means of factory fabricated mounting cords/patch cords respectively.

System Acceptance

40. Based on the QC Certificate from the OEM and integrated testing at installed location.

Training

41. For each kiosk installed, the Vendor is required to train the designated personnel to enable them to effectively operate and maintain the total system. Naval personnel shall be trained at Mumbai in batches, to explain the basic functionalities of the system. The details of the training program, including scope of training, course ware, and no. of trainees will be worked out during the system design phase. Training will also be carried out on aspects of maintenance and administration of the system, at the above-mentioned location and for designated batches. Cost of training by the developers or any other company representative must be included in the above quote. All administrative arrangements for the abovementioned training will be made by the Indian Navy

42. **Final Acceptance.** The Final System acceptance will be based on the successful integrated testing of the swipe terminals with the ISMS application (of which this tender is a part) and stable operation. The ATP for the final system acceptance must indicate the various facets of the integration testing for the entire network.

43. **Payment Schedule.** The purchase will be on credit basis. Payment will be made stage-wise on delivery, installation, proving of connectivity and commissioning of the QM

Table, by PCDA(N), Mumbai through ECS within 3 weeks of submission of all relevant documents/bills. No advance payment shall be made.

(a) **Stage 1.** This shall account for 20% of the order value alongwith taxes, duties and levies on successful acceptance of prototype design and integrated testing and acceptance of the final designed kiosk on the nominated ship, within 120 days of contract initiation.

(b) **Stage 2.** This shall account for 20% of the order value alongwith taxes, duties and levies on successful fitment of kiosk on the 03 nominated ships.

(c) **Stage 3.** This shall account for 20% of the order value alongwith taxes, duties and levies on successful fitment of kiosk on the 03 nominated ships.

(d) **Stage 4.** This shall account for 30% of the order value alongwith taxes, duties and levies on successful fitment of kiosk on the balance 03 nominated ships, within 240 days of contract initiation.

(e) **Stage 5.** This shall account for 10% of the order value alongwith all taxes and levies on successful completion of 24 months warranty services.

44. **Warranty.** Comprehensive on site warranty for a period of 02 Yrs on all hardware components and software from the date of final acceptance. Warranty to include –

(a) **Failure of Kiosk.** To be replaced/repared within 36 hrs form the time of reporting of the defect. This is to be valid for all working days (Mon to Sat) with normal working hours of (0900-1700 hrs).

(b) **Failure of other components.** To be replaced/repared within 72 hrs form the time of reporting of the defect. This is to be valid for all working days (Mon to Sat) with normal working hours of (0900-1700 hrs).

(c) Vendors to specify as to what support will be available during off-working hours and on Sundays/Holidays.

45. **Invocation of Performance Bank Guarantee.** The Bank Guarantee is liable to be invoked (as per the contract terms with the final vendor) under the circumstances including:-

(a) Non-compliance with the warranty terms and conditions.

(b) Non-compliance of terms and conditions as per the final contract to be drawn with the selected firm.

46. **Security Deposit.** The firm to which the contract for this tender will be awarded has to furnish, within 30 days of the acceptance of the contract, a security deposit in the form of a Bank Guarantee for 5% of the order value drawn on any nationalised bank in respect of the contract amount, for the entire project duration (i.e. till completion of warranty) drawn in favour of PCDA (N) Mumbai.

47. **Earnest Money Deposit (EMD)**. A sum of Rs.76,800/- in form of Unconditional Bank Guarantee drawn on any Nationalised Bank or Demand Draft/FDR/Banker's cheque drawn in favour of **PCDA (Navy) A/c, Mumbai** to be enclosed with the T-bid in separate envelope. This EMD will be valid for a period of six months from the date of issue or up to the time of award of contract to one of the vendor. At that point EMD of all other vendors will be returned. Firms registered with GOI or Ministry of Defence departments/NSIC are to produce the void registration certificate for exemption to the EMD. Quote received without EMD shall be rejected out-rightly.

48. **Forfeiture and Fore close of EMD by the tendering authority**. The tendering authority reserves the right to forfeiture and fore close on EMD/Bank Guarantee to cover his loss in terms of time and delay in a running project in case the vender decides to withdraw from the project placement of Contract on the vendor by the tendering authority.

49. **Sub contract clause & Responsibility of the vendor**. The project is high value high technology time bound. Therefore while the tendering authority has no objection to the principle (i.e. the vendor) subcontracting the part of the project works, the above project must be handled directly by the vendor himself and is solely liable and responsible for all the works carried by any person and or firm under the vendor's direction and make good at his own risk and cost part of the project. The order will be placed /Contract agreement signed with the prime vendor only.

50. **Arbitration clause**. There may arise a situation when there is a dispute between the purchaser and supplier which could not be resolved through mutual discussions. In such circumstances the Flag Officer Commanding-in-Chief, Western Naval Command, Mumbai will appoint a panel for arbitration, whose decision will be final.

51. **Risk and Expense clause**. Risk and Expense purchase will be undertaken by the purchaser in the event of supplier failing to honour the contractual obligations within stipulated period, at the risk and cost of the supplier.

52. **E-Payment**. Full Bank details viz. Banker's name/address, Branch code, Bank A/c No., MICR code may be furnished for e-payment by PCDA(N), Mumbai.

53. This RFP is being issued with no financial commitment and purchaser reserves the right to change or vary any part thereof at any stage. Purchaser also reserves right to withdraw the RFP should it be so necessary at any stage.

54. **Please acknowledge receipt of the RFP.**

Sd/-

(P SURESH BABU)
Commander
Admin Officer

Appendix 'A'

BILL OF MATERIAL (For one Kiosk per ship)

<u>SNo</u>	<u>Item</u>	<u>Qty</u> (for 01 kiosk)	<u>Make</u>	<u>Part/Pattern No.</u>
1	SWIPE Terminals (02 + 01 Onboard Spare)	03		
2	Smart Card Reader as per SCOSTA-CL standards	01		
3	Quarter Master Table with accessories (Lightweight, Rugged and portable as per design)	01		
4	Ruggedised weather proof PC (Single board computer) with 17" Marine Grade rack-mountable bright sun- light readable monitor flushed with the top surface of the table. (Separate housing for the top dismountable portion of kiosk holding PC/SBC for stowage)	01 each		
5	Weather proof Webcam with adequate specifications for recording movement at Gangway (min specs. given in tender)	02		
6	Ruggedised, weather and shock proof Connectors (RJ45) and patch cords	01 set		
7	Ruggedised, weather and shock proof Connectors for 220 V Power Supplies and cabling	04 locations		
08	STP Armoured Cat 6 LAN Cable	150 mtrs approx. on each ship		

09	UPS 1 kVA with 30 hour backup battery. 01 to be housed in the kiosk	02		
10	4 plug spike suppressor	02		
11	08 Port switches -10/100 Mbps to connect to ship's LAN	01		
12	Bar code printer (min. specs. in the tender)	01		
13	Installation of the kiosk and integration with LAN			
14	Training and Documentation to include - (a) SYSTEM Diagram (laminated) in Power point and Intelligent ACAD diagrams. (b) OEM Manuals (with each COTS item (c) User, Technical and Maintenance Manuals for each kiosk (d) Onsite training			
	Total Unitised Price (INR) for one Kiosk inclusive of all taxes and levies			
	Total Price (INR) for 10 Kiosks inclusive of all taxes and levies			
	AMC Cost in % of the total price quoted (excluding the applicable service tax) Note – AMC contract will be negotiated separately prior completion of warranty			

Note:

(a) Any other Active/Passive components and installation charges if any deemed necessary for the completion of the project are also to be reflected in the Bill of Material while being submitted.

- (b) The price quoted should be inclusive of all Duties, Levies and Taxes.
- (c) The BOM should indicate OEM product code No and unit prices for all Active and Passive components.
- (d) The quantities indicated are tentative and are likely to have variations. Payments will be made as per actuals for all components (active/passive/services etc)

Brief Description of Gangway Kiosk Design

Introduction.

1. "Integrated Ship Management System" is a web based application designed for carrying out various administration tasks onboard ships. ISMS when installed onboard ships would automate to a large extent, day-to-day activities of ship in various functional categories. Software Engineering Group (Mb) is the nodal agency for co-ordination and development of ISMS application.
2. ISMS application consists of 16 modules which include Gangway, Regulating, Logistics, Ships Office, Navigation, Maintenance, Library, Works, Transport, Training etc; analogous to various departments onboard a ship/establishment. The end users would be able to exploit ISMS application for carrying out administrative functions through PCs in intra-ship LAN located at various places onboard the ship for all the modules except gangway module. Interface for Gangway module of ISMS is facilitated through Kiosk setup integrated as part of Quarter Master Table. The Kiosk is to be attached with barcode readers and web cameras for recording of movement of personnel in & out of Gangway.

Draft Features of Gangway Kiosk.

3. Following movements of personnel can be recorded through Gangway Kiosk without requirement for quarter master to undertake manual entries:
 - (a) Liberty In /Liberty Out. The movement is authenticated based on working hours recorded in ISMS application. Liberty out during working hours is not permitted.
 - (b) Duty Ashore /Special Permission In/Out. The movement is authenticated based on permission accorded to the sailor by the respective Divisional/Department officers and OOD. The permissions are accorded through ISMS application.
 - (c) Visitor In / Visitor Out. Recording of all visitor movements at the gangway for passes generated through Regulating department in ISMS application.
 - (d) Incoming/Outgoing. Movement of personnel borne in the unit during incoming/outgoing on Leave/Ty Duty/Hospitalisation/Ex-leave/Ex-Ty duty are recorded.
 - (e) Any other Ship's Gangway automation function desirable.

Identification & Webcam Recording.

4. Bar coded stickers are used for identification and recording of movements of personnel at the Gangway Kiosk. The personnel intending to move in/out of gangway for the reasons mentioned ibid are to press appropriate keys provisioned on the front side of Kiosk and swipe the bar coded stickers across the barcode readers. If movement is authenticated, relevant message gets displayed on the LCD screens on the Kiosk and in case of movement not authenticated, an audio alarm is raised to draw the attention of quarter master and other gangway duty personnel. The Kiosk is also to be integrated to smart card reader based on SCOSTA-CL standards for future use.

5. Web cameras record the snap shot of the person in sync with the bar code swipe and store as image files with date time stamp in the Kiosk PC. The images recorded can be used for investigative purposes at a later date & time when required.

6. **Online and Offline Recording of Data.** In online mode the kiosk application interacts with ISMS application through the common database. In offline mode, when there is loss of connectivity with ISMS server, the system switches to offline mode and records all movements on the local PC. The offline records are pushed into ISMS database as and when the connectivity is established with ISMS database server.



Front View of Gangway Kiosk



Kiosk with Web Cameras Fitted



Kiosk Front Keypad with LCD Displays



Barcode Reader



Webcam

Oriole's KIOSK Terminal

Designed & Developed by
Oriole Electronics Pvt. Ltd
4, Kurla Industrial Estate, Narayana Nagar,
Ghatkopar (W), Mumbai - 400 086, INDIA.
Tel. 9122 25094241-6 Fax 9122 25115810

ISO 9001:2000 COMPANY

UKAS
9001
2000

Login **LogOut**

173394B ***** **Go**

Welcome : **P KARTHI KEYAN POELP**

Sailor Movement(1)

Liberty

Duty Ashore

Visitors

Incoming / Outgoing

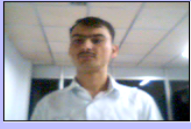
Swipe Terminal(1)

Reader Status

Personal ID

Date / Time

Image Recording(1)



Configure

Sailor Movement(2)

Liberty

Duty Ashore

Visitors

Incoming / Outgoing

Swipe Terminal(2)

Reader Status

Personal ID

Date / Time

Image Recording(2)



Record Details ☐ Permitted ☐ Not Permitted ☐ All

Sailor Movement	Personal ID	Date & Time	Server Updated	Updated Status	Image File	Status
Liberty IN	131653N	10/6/2008 11:52:24	Yes	10/6/2008	131653N_06-10-2008_115224.jpg	Permitted
Liberty IN	173394B	10/6/2008 11:35:56	Yes	10/6/2008	173394B_06-10-2008_113556.jpg	Not Permitted
Liberty IN	164082R	10/6/2008 11:35:31	Yes	10/6/2008	164082R_06-10-2008_113531.jpg	Not Permitted
Liberty IN	164082R	10/6/2008 11:35:22	Yes	10/6/2008	164082R_06-10-2008_113522.jpg	Not Permitted

Alarm Message... 10/6/2008 11:52:41 AM Server Status: Connected

start Oriole's KIOSK Terminal 11:52 AM

Test Screen shot of Gangway Kiosk Application with Integrated Web Cam snap shots.

ISMS Integrated Ship Management System

Current User: **P KARTHI KEYAN** Select Role: **GANGWAY** 24 Jul 08 02:29 hrs

Help? | Logout

Shortcuts 

Registers & Records | Reports & Returns | Maintenance | Miscellaneous | Interfaces

Menu Search

ERIC

DAILY ORDER

QUICK MENU

MESSAGES

Inbox (0)

Outbox

Imp Mails (0)

USER FEEDBACK

SHIP'S NEWS LETTER

Registers & Records > OOD/OOW Review

OOD Review List

Book Register

Liberty Book

Search By

Name	Designation	Liberty Type	Time In	Time Out	OOD Remarks
HARIKESH MAURYA	GUNNERY	NON MLR Liberty		1454	OOD Remark
RAM BIR SINGH	IT I/C-1	Weekend Liberty	1454	1114	OOD Remark
MURALI MJ REDDY	LS MK	Weekend Liberty	1113	1101	OOD Remark

Remarks

Approve ☒ Accept ☐ Reject

Test Screen shot of ISMS on Liberty Book Entries

TENDER NOTICE NO. SEG/313/ISMS/FLEET-KIOSK

1. Sealed tenders are invited on prescribed tender forms in two bid system from reputed firms for development, manufacturing, supply and installation of following items alongwith application software for automation of functions, recording of in/out movement of personnel, interface with already existing server based web-application and integration with LAN:

Item Details	Qty/Deno	Specification	Tender Fee(Rs.)	EMD (Rs.)
Weather proof ruggedised kiosks fitted with Barcode Swipe Terminals, weather proof Web Cameras etc. for ships	10 Nos.	As per tender documents.	100/- DD/Pay Order in favour of PCDA(Navy), Mumbai	76,800/- DD/Pay Order in favour of PCDA(Navy), Mumbai

2. Tender document alongwith terms and conditions, eligibility criteria and item details can be obtained from the address below (0900 Hrs to 1700 Hrs) on payment of tender fee. Quotes against downloaded documents are to be submitted alongwith non-refundable/non-transferable tender fee as Demand Draft in the name of, PCDA (Navy) Mumbai, in a separate sealed envelope. EMD for non-registered firms and tender fees as above should accompany the quote without which quote is liable to be rejected. The tender is being issued with no financial commitment and purchaser reserves the right to change/vary any part thereof at any stage or cancel the tender. The tenders can also be downloaded from <http://www.irfc-nausena.nic.in> and <http://www.tenders.gov.in>

3. **IMPORTANT DATES**

COMMENCEMENT OF ISSUE OF TENDER DOCUMENT - 07 MAY 09.
PRE-BID CONFERENCE TIME AND DATE: - 19 MAY 09 at 1100 Hrs
LAST DATE OF SUBMISSION OF TENDER - 09 JUN 09 at 1600 Hrs.

DATE FOR OPENING PRICE BIDS WILL BE PROMULGATED TO SHORT-LISTED VENDORS

4. **Address**
THE OFFICER-IN-CHARGE
SOFTWARE ENGINEERING GROUP
FMU & SS COMPLEX, 3RD FLOOR
NAVAL DOCKYARD
MUMBAI – 400 023
PHONE: 022-22751876 **FAX: 022-22691755**
Email – wncsegmb-navy@nic.in