

REQUEST FOR PROPOSAL

MINISTRY OF DEFENCE GOVERNMENT OF INDIA FOR OUTSOURCING PREPARATION OF DETAILED PROJECT REPORT (DPR), CONSULTATION FOR CONTRACT CONCLUSION AND PROJECT MONITORING FOR SETTING UP OF COMBAT TRAINING CENTRE (CTC) ON 'TURNKEY BASIS' AT KARWAR

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The contents of this RFP must not be disclosed to brauthorised persons and must be used only for the purpose of submission of Bids.

This document contains 83 pages including cover page and Appendices,

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File No: TM (M)/0025/DSOD/CTC

ADG Acq-Tech (M&\$) Room no 05, D-tl Wing Ground Floor Sena Bhawan New Delbi 110011

54 Mar 25

To,

All concerned.

REQUEST FOR TECHNICAL AND COMMERCIAL PROPOSAL FOR PREPARATION OF DETAILED PROJECT REPORT (DPR), CONSULTATION FOR CONTRACT CONCLUSION AND PROJECT MONITORING FOR SETTING UP OF COMBAT TRAINING CENTRE (CTC) ON 'TURNKEY BASIS' AT KARWAR

Dear Sir/Madam,

1. The Ministry of Defence, Government of India, intends to engage consultants for Preparation of Detailed Project Report (DPR) followed by Consultancy services for Contract Conclusion and Project Monitoring for Construction of an Operational Training Facility at Karwar for operational and mission specific training with simulators and modular buildings. The facility would also include certain auxiliary requirement such as Armoury and Explosive Store, Accommodation Complex, Central Monitoring Station (CMS), Tactical Fitness Area, Cook House cum Dining Hall, Vehicle parking, Sanitation system including Sewage Treatment Plant etc for the personnel (100 personnel approx.) staying at the location for operating and managing the facility. The Ministry of Defence seeks perticipation in the procurement process from prospective Bidders subject to requirements in succeeding paragraphs.

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2. It is also intimated that this RFP contains classified content and only authorised personnel in the firm are permitted to examine this document. Any default in this aspect would render the firm responsible for deliberate violation of the Non-Disclosure Agreement submitted by the firm

Synopsis

3. Broad Description of Equipment/ System. The case is regarding a consultancy for a Turnkey Project which would be utilised for training of MARCOs, IN personnel, and joint training exercise with Special Forces of IA and IAF. The CTC would also be utilised to conduct joint training exercises with Special Forces of FFCs and conduct trials of newly inducted equipment. The project requires development of specific electrical, mechanical and civil engineering requirements, all integrated into a compact and modern facility.

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spread over 75 acres. The facilities should achere to the relevant guidelines promulgated by certifying agencies in the respective field ag Central Pollution Control Soard, NHAL BIS etc and the same is to be mentioned in DPR, it is intimated that the Karwar Naval Harbour is MARPOL compliant, Any discharge into the sea, therefore, has to be treated prior release into the sea. The intended facility would consist of training infrastructure as follows:-

- Multilevel Kill house (G+2). A composite structure with ballistic protection. to enable firing from 9 mm, 5.56 mm and 7.62 mm calibre weapons including sniper weepons.
- (b) Method of Entry Complex (G+1). A modular complex with ballistic protection and modular fittings to enable simulating various nostage scenarios.
- Maritime Workup Station. A composite structure consisting of the (¢) following constituent simulators:-
 - (i) An ail rig mock-up. . .
 - (ii) A ship mock-up.
 - A pool capable of wave generation to simulate various sea-states. (iii)
- Obstacle cum Jungle Firing Range. An outdoor firing range built in the vegelation surrounding the CTC. The firing range would consist of pop up targets and an integral Battle Obstacle Course
- Military Operations in Urban Terrain (MOUT) Complex. It would consist of a tectical training facility with modern training aids for MOLT operations. The MOUT complex would consist of the following:-
 - <u>Urban Set-Up</u>. A mock-up of an urban city center with buildings, shops, school etc simulating a section of a town,
 - Semi-urban/Rural setup. A mockup of a rural area/ village in India.
- Indoor Firing Range with Firing Simulator Complex (G+1). Composite Indoor Shooting Range facilitating various shooting practices with live ammunition of various caliber i.e. 5,56 mm, 7,62 mm and 9 mm etc. The integrated firing range would consist of an Advanced target System. Also, it would consist of e firing simulator for practicing operational firing in various scenarios.
- Armoury and AC Store Complex (G+1). An armoury and AC Store (g) complex for stowage of weapons, ammunitions, explosives and special ecuipment.
- Accommodation Complex. It would consist of three buildings. One **WERIFIED* building would be earmarked for junior sailors which could accommodate 70 sailors, one for serior sailors which could accommodate 30 sailors and Officers, accommodation for 07-10 officers.

- Cook House cum Dining Hall A galley/ cook house to prepare meals for all personnel with a capacity of 120 personnel dining at a same time.
- Fork Lift! Listers. Associated load shifting equipment such as forklifts, (k) fisters etc would also be required to be positioned.
- All individual facilities would be required to have a separate central control post for the following:-
 - Monitoring of video and sound feed using CCTV camera system. (i)
 - Facility for controlling the illumination of the area for simulating various times of the day.
 - A central announcement system for each facility.
- Technical/ maintenance support areas for mentioned simulators and training equipment with specific requirements.
- Associated Civit Works like AC plants, RO water/ filtration plants, DG sets, (1)solar power plants, POL store, atc. The complex should have an independent acquisition feeder for electricity.
- An integrated access controlled facility with enhanced security perimeter fencing, CCIV's, control room, etc.
- A camouflage paint scheme for the entire facility (external walls) matching with the local vegetation.
- CAMC in support of all simulators and technical infrastructure for 10 years. (r):
- The deliverables of the DPR. Consultation for Contract Conclusion and Project Monitoring are as described in succeeding paragraphs. These are to be read in conjunction with the exhaustive list is placed at Appendix A to this RFP.

Preparation of Detailed Project Report

- Land Issues. Aspects related to all issues rotated to land utilisation including environmental impact assessment, clearances required and any other issue related to building the infrastructure are to be included in the DPR.
- Structure. The DPR should include a Fly-in 3D model of the conceptual design. of the full facility alongwith individual components proposed to be raised as part of the CTC as per actual on-ground scale. In addition, a 3D physical model as per scale (1:100). *ATRICIED* is also to be provided as part of the DPR. This 3D model of conceptual design should cater for the topographical landscape in the area.

- Accessibility. Aspects related to accessibility to the facility by road, air and sea are to be addressed.
- 8. <u>Security</u>. All facets of security of the facility from land, sea and air are to be addressed. This should include aspects such as boundary walls, sentry posts, access control measures into facility. CCTV coverage, motion sensors, seaward security etc.
- 9. <u>Safety and Standard</u>. The DPR should mention clearly the standards promulgated by awarding bodies eg BIS, CFEES etc for all the civil and technical infrastructure in the facility. Specifications of the equipment proposed to be fitted should also state the qualifying standards to which it will conform to.
- 10. <u>Technical Infrastructure</u>. The DPR should include detailed specifications of the technical infrastructure alongwith tist of potential vendors (preferably three vendors) capable of supplying and installing the equipment. This should also include the training requirements for the operator/ maintainer alongwith the envisaged maintenance schedule.
- Integration of Civil and Technical Infrastructure. Modalities of Integrating civil
 and technical infrastructure along with equipment to be fitted is to be included in the DPR.
- 12. <u>Specifications of Equipment Alongwith Details of Probable Vendors.</u>
 Detailed specifications of all equipment proposed to be fitted alongwith details of atleast three potential suppliers are to be included. Pherspecifications are to cater for the IC content required law DAP 20 for Buy (Indian IDDM) equipment.
- 13. <u>Timeline Envisaged</u>. Estimated timelines of entire work, with phase scheduling of individual works, installation and commissioning requirements are to be drawn. A tabulated document with phases and timelines broken down is to be prepared and should serve as Master document for implementation/ project management. The timeline is to also include a quarterly review of the project.
- 14. <u>Documentation</u>. The DPR is to include documentation law Ancexure I to Appendix A. In addition, a Fiy-in 3D model of the conceptual design of the full facility alongwith individual components proposed to be raised as part of the CTC as per actual on-ground scale, schematic map etc is to be submitted for appreciation of the project.
- 15. <u>Green Initiatives</u>. The project should incorporate latest green initiatives as promulgated by Gol from time to time law IGBC Gold Star, Waste management, solar energy, rain water harvesting etc. The standards are to be indicated in the DPR.
- 16. <u>Financial</u>. Estimated bill of material including approximate cost estimates of equipment to be fitted including of civil and technical infrastructure in addition to the equipment being fitted. Costing for associated civil, electrical and other works in support of the technical components is also to be included. This should also cater for the dredging requirements, if required.

Consultancy towards Contract Conclusion for Execution of Project

- The selected firm will be required to provide Consultancy service for Contract Conclusion for raising the infrastructure of CTC and support infrastructure. Following facets would be included in the consultancy phase:-
 - (a) Consultancy during pre-bid meeting.
 - (b) Consultation for explanation and acceptance of DPR by the shortlisted firm for raising the CTC infrastructure. The firm will also be required to clarify doubts, if any.
 - (c) Assistance in undertaking TEC for the project.
 - (d) Assistance in preparation of RFP documents.
 - (e) Advise on technical inputs, payment terms, commercial, CMC and legal isaues.
 - (f) Adviso on identifying prospective vendors and their selection criteria for consideration of the vendor selection committee.

Project Monitoring (Post Contract Conclusion) for Overseeing Execution of the Project

- The firm will be required to position a Project Monitoring Team at the site for the 18. following:-
 - ADG ADA (a) Monitor the construction procedures being used by the firm to ensure conformation to the DPR.
 - (b) Ensure coordination between the various agencies involved in the raising of CTC intrastructure.
 - Monitor the cardinal deadlines as mentioned in the DPR. (c)
 - Consultancy towards Project implementation. (d) -
 - (e) Acceptance of the infrastructure and equipment in the CTC and their handing over to the MES authorities prior commissioning.
 - Monitor conduct of training for IN personnel in the operation and maintenance of simulators, wave pool, boat handling equipment and associated equipment.
- (g) Formulation of PERT chart for monitoring the progress of the case. * LEPIRITED*
 - (h) Positioning of a team for monitoring the progress of the case.

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- (i) Conduct a quarterly review of the progress of the project. In addition, a fresh/ updated chart is to be prepared for briefing any senior inspecting officer visiting the site.
- 19. The satient aspects and timelines of the acquisition are tabulated below. In case of any variation in the details furnished below or in any Annexures(s) with that mentioned in the RFP, information furnished in the main body of the RFP at referred Paragraph is to be followed.

S No	Description	Details	Reference Para of the RFP
(a)	Product Required	DPR for CTC at Karwar	Para 2 of Part I of RFP
(b)	Quantity Required		Para 2 of Part Lof REP
(c)	Categorieation of Procurement	Buy-Indian(IDDM)	Para 2 of Part of RFP
(d)	Place(s) of Delivery (i) DPR (ii) Consultancy (iii) Project Management	(i) Delhi & Karwar (li) Delhi & Karwar (iii) Karwar	
(e)	Validity Period	NA	Pera 10 of Part I of RFP
(f)	Last date for submission of Pre- bid gueries	25 Mar 25	Para 15 of Part of RFP
(g)	Date and time for Pre-bid meeting auts	15 April S. Harbus	Para 16 of Part I of RFP
(h)	Last date and time for Bid Submission	27 May 25, Works	Para 17 of Part I of RFP

20. This Request for Proposal (RFP) consists of following four parts:-

Ser	Description	Page No
(a)	Part I – General Requirements	11
(b)	Part II - Technical Requirements	15
(c)	Part III - Commercial Requirements	19
(d)	Part IV - Bid Evaluation and Acceptance Criteria	21

- 21. The Government of Incia invites responses to this request only from firms experienced in preparation of Detailed Project Reports, Consultancy and implementation/management of the Project as applicable in the instant case.
- The end user of the services is the Indian Navy.
- 23. This RFP is being Issued with no financial commitment; and the Ministry of Defence reserves the right to withdraw the RFP and change or vary any part thereof or foreclose the procurement case at any stage. The Government of India also reserves the

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right to disqualify any Bidder should it be so necessary at any stage on grounds of National Security.

- This RFP is non-transferable. 24.
- In addition to various Appendices and their Annexures, attached with this RFP, 25. reference to various paragraphs of DAP-2020 has been made in the RFP. The DAP -2020 is an open domaintidocument that is available at Got, MoD website www.mod.nic.in.
- COPY No. The case will be processed in accordance with Para 23, Chapter-II of DAP-20 with regard to MSMEs.

VERIFIED The receipt of the RFP may please be acknowledged.

Yours faithfully,

(Aditya Singh-Dadwal)

Commodore

DDG Acq Tech (Maritime)

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DISCLAIMER

This RFP is neither an agreement and nor an offer by the MoD to the prospective Bidders or any other porson. The purpose of this RFP is to provide interested parties with information that may be useful to them in submitting their proposals pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the MoD in relation to the Project. This RFP document and any assumptions, assessments and statements made herein do not purport to contain all the information that each Bidder may require. The Bidder shall been all its costs associated with or relating to the preparation and submission of proposal pursuant to this RFP, Wherever necessary, MoD reserves the right to amend or supplement the information, assessment or assumptions contained in this RFP. The MoD reserves the right to withdraw the RFP or foreclose the procurement case at any stage. The issuance of this RFP does not imply that the MoD is bound to shortlist a Bidder for the Project. The MoD also reserves the right to disqualify any Bidger should it be so necessary at any stage on grounds of National Security.

PART I - GENERAL REQUIREMENTS

- This part consists of the general requirement of the Goods (also referred as equipment/systems/deliverables) and Services, hereafter collectively referred as 'Deliverables', the numbers required, the time frame for deliveries, conditions of usage and maintenance, requirement for training, CMC and warranty/guarantee conditions, etc. It includes the procedure and the date & time for submission of bids.
- 2. The case is being progressed as a Buy (Indian - IDDM) project and the scope of Consultancy services, Qty - One each, is sought from the consultants is as follows:-
 - Preparation of Detailed Project Report for construction of CTC. (a)
 - Consultancy towards the Conclusion of Contract for execution of **(b)** project.:
 - Project Monitoring (Post Contract Conclusion) for overseeing execution. (c) of the project.

Non-Disclosure

- The Bidding documents, including this RFB and all attached documents provided by the MoD, are and shall remain or become the property of the MoD. These are transmitted to the Bidders solely for the purpose of preparation and the submission of a proposal in accordance herewith. Bidders are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission. of their proposal. The provisions of this Para shall also apply mutatis mutand's to Bids. and all other documents submitted by the Bidders, and the MoD will not return to the Bidders any proposal, document or any information provided along therewith (except unopened Commercial 8ld and EMD, as relevants.
- 4. Information relating to the examination, clarification, evaluation and recommendation for the Bidders shall not be disclosed to any person who is not officially. concerned with the process, or concerning the Bidding Process. The MoD will treat all information, submitted as part of the Bid, in confidence and will require all those who have access to such material to treat the same in confidence. MoD may not divulge any such Information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory. entity and/ or MoD or as may be required by law or in connection with any legal process.
- Confidentiality of information. No party shall disclose any information to any 'Third Party concerning the matters under this RFP. In particular, any information identified as "Proprietery" in nature by the disclosing party shall be kept strictly confidential. by the receiving party and shall not be disclosed to any third party without the prior written. consent of the original disclosing party. This clause shall apply to the sub-contractors, **VERIFIED* consultants, advisors or the employees engaged by a party with equal force. Additionally, Non-Disclosure Agreement would have to be signed by all Bidders in accordance with the format placed at Appendix H.

Business Eligibility

6(a). Undertaking by Bidders. The Bidder will submit an undertaking that they are currently not banned/ debarred /suspended from doing business dealings with Government of India lany other government organisation and that there is no investigation going on by MoD against them, in case of ever having been barined/ debarred/ suspended from doing business dealings with MoD/ any other government organisation, in the past, the Bidder will furnish details of such ban/ debarment along with copy of government letter under which this pan/ debarment/ suspension was lifted/ revoked. The Bidder shall also declare that their sub-contractor(s)/ supplier(s)/ technology partner(s) are not Suspended or Debarred by Ministry of Defence. In case the sub-contractor(s)/supplier(s)/ technology partner(s) of the Bidder are Suspended or Debarred by Ministry of Defence, the Bidder shall indicate the same with justification for participation of such sub-contractor(s)/supplier(s)/ technology partner(s) in the procurement case.

6(b). Subsequent to submission of bids if any sub-contractor(s)/ supplier(s)/ technology pertner(s) of the Bidder is suspended or debarred by Ministry of Defence, the Bidder shall intimate the Ministry of Defence regarding Suspension or Department of its subcontractor(s)/ supplier(s)/technology partner(s) within two weeks of such order being made publica

COPY No. Pre-Qualification Criteria (for multi-vendor cases in Buy (Indian-IDDM). Buy (Indian) and Buy & Make (Indian) cases). The detailed Pre-Qualification criteria for the Bidders for participation in the instant procurement case are placed at Appendix J to this RFP. All Bidders are to submit details as per the criteria along with the Technical Bids These would be avaluated by the TEC.

- Delivery Schedule. The delivery schedule of equipment and services along with 8. the relevant payment stages is specified at Annexure IV to Appendix E. The delivery of the Detailed Project Report is to be completed within 18 months of signing of contract.
- Once the contract is conduited and the delivery schedule is established, the Bidder shall adhere to it and ensure continuity of supply of deliverables and their components under the contract.
- Validity. The DPR provided by the firm including the equipment specifications and cost of equipment should be valid for atteast 36 months from the date of acceptance of OPR by Competent Authority in the IN. Validity Clause is given at Appendix C to this RFP.
- Training of Crew. The Project Munitoring should include monitoring for training of 11. operators, operator trainers and maintenance personnel to undertake operation and maintenance of simulators, wave pool, boat handling equipment and associated equipment.
- Government Regulations. It may be confirmed that there are no Government restrictions or limitations in the country of the Bidder or countries from which sub-components are being procured and/or for the export of any part of the deliverables * VERIFIED* being supplied.

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- 13. <u>Patent Rights</u>. The bidder should confirm that there are no infringements of any Patent Rights in accordance with the laws prevailing in their respective countries with respect to the equipment being fitted in the CTC.
- 14. <u>Fail Clause</u>. If the services being offered by the Bidder has been supplied/contracted with any organisation, public/ private in India, the details of the same may be furnished in the technical as well as commercial offers. The Bidders are required to give a written undertaking that they have not supplied/ is not supplying the similar services including systems or subsystems at a price lower than that offered in the present bld to any other Ministry/ Department of the Government of India and if the similar service/ system/ equipment has been supplied at a lower price, then the details regarding the cost, time of supply and quantities be included as part of the commercial offer. In case of non-disclosure, if it is found at any stage that the similar system or subsystem was supplied by the Bidder to any other Ministry/ Department of the Government of India at a lower price, then that very price, will be applicable to the present case and with due allowance for elapsed time, the difference in the cost would be refunded to the Buyer, if the contract has already been concluded.
- 15. <u>Bid Timelines.</u> Any queries/darifications to this RFP may be sent to this office by <u>25 May 25</u>. A copy of the same may also be sent to:-

The Commodere (Special Operations & Diving)
Directorate of Special Operations & Diving
Neval Headquarters, Ministry of Defence
'A' Block Ground floor
Defence Offices Complex, Africa Avenue Icquisite
New Delhi — 110023
Tel: 011-26112019, Fax: 011-26112026

- 16. <u>Pre-Bid Meeting</u>. A pre-blc meeting will be organised by the Service Headquarters at 1) or hrs on 15 April 25 at DSOD, IHQ MoD (N) and New Delhi to answer any queries or clarify doubts regarding submission of proposals. The Bidder or his authorised representative is requested to attend. Necessary details may be sent a week in advance to Directorate Special Operations & Diving, Room No 9, 'A' Block Defence offices Complex, Africa Avenue, New Delhi 110023 (Tele 011-20862612/FAX 011-26112026) to facilitate obtaining of secunty clearance.
- 17. Submission of Bids. The Technical and Commercial Proposals should be sealed ecparately in two separate envelopes clearly indicating Commercial/ Technical, as applicable, and then put in one envelope and sealed (all the envelopes should clearly state the letter No of RFP and the name of equipment and Bidder name) and submitted to the undersigned at the following address by 1200 hrs on 23 May 25.

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The Commodore (Spl Ops & Diving)
Room No 9, 'A' Block,
Defence Offices Complex,
Africa Avenua. New Delhi 110023

18. Offer opening by Offer opening committee will be held at 1500 hrs on 37 May 25 at the same venue as indicated at Para 17 above. The Bidder or his authorised representative is welcome to be present at the opening of the proposals. Necessary details may be sent atteast one week in advance to facilitate obtaining of security dearance.

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PART II - TECHNICAL REQUIREMENTS

- 19. The DPR would consist of tist of equipment to be fitted in setting up of CTC and should include technical specifications of the equipment meeting the operational characteristics as mentioned in Annexures to Appendix A to this RFP. Compliance Table for evaluation of the bid is placed at Appendix B to this RFP. The broad deliverables required from the Preparation of DPR, Consultation for Contract Conclusion and Project Monitoring are elucidated at Appendix A to this RFP.
- 20. The subsequent case for raising of CTC would be progressed and categorised as Buy (Indian IDDM). The OPR in its equipment specifications, therefore, should comply with the required IC content iaw DAP 20. In addition, the DPR should also enable detailed understanding of the functioning and characteristics of the equipment, facilities, civil and structural works as a whole and each sub-system independently. It must include the performance parameters as fisted at Appendix A (including Annexures to Appendix A) to this RFP and any other information pertaining to the technical specifications of the equipment considered important/ relevant by the Bidder.
- 21. <u>Technical Offer</u>. The Technical Offer must enable detailed understanding of the functioning and characteristics of the services as a whole and each sub system independently. It must include the performance parameters as listed at Appendix A to this RSP and any other information partialiting to the technical specifications of the services considered important/ relevant by the Bidder.

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22. Technical Details.

- (a) The technical details should be factual, comprehensive and include specifications of the offered system/equipment against broad requirements listed in Appendix A to this RFP.
- (b) Insufficient or incomplete details may lead to rejection of the offer. Mere indication of compliance may be construed as incomplete information unless system's specific technical details are available in the offer. A format of the compliance table for the technical parameters and other conditions of RFP is attached as Appendix B to this RFP.
- 23. The technical offer should have a separate detachable compliance table as performet given at Appendix B to this RFP stating specific answers to all the parameters as listed at Appendix A (including Annaxures to Appendix A) to this RFP. It is mandatory to append answers to all the parameters listed in Appendix A (including Annaxures to Appendix A) to this RFP. Four copies of the Technical Proposal should be submitted (along with one soft copy). Only one copy of the commercial proposal is required.

24. Submission of Project Report

(a) Preliminary Project Report (PPR). A PPR must be submitted along with Technical Offer. The PPR should indicate the methodology adopted by the Bidder to execute the program and meet the delivery schedule laid down in the RFP. The PPR should broadly cover the following aspects:-

- Project Overview. The 'Project Overview' should define, organise and interlink the various project elements which are required to be established/ setup by the Bidder and his Indian Production Agency in order to manufacture and deliver the contracted products and services within the RFP specified timeframes. The project overview should also include a 3D model of the conceptual dealgn the CTC for preliminary appreciation.
- Definition of Key Milestones. This should define the key milestones in the project implementation phase and the criterion for declaring accomplishment of these milestones. The key milestones would include creating necessary infrastructure and setting up of plant and machinery required to be set up at the Indian Production Agency (actilities for the license manufacture of various equipment in India along with training of the Indian Production Agency personnel required for the purpose.
- Program Schedule. The 'Program Schedule' should give estimated start and end dates for each event with respect to the award of contract (Tn) thereby creating a calendar based schedule.
- Standard of Preparation (SoP). Standard of Preparation (SoP) of (ly) the platform/ equipment/ system being offered must be defined in the PPR ec BIS, CFEES NHAL etc. This must include details of operational roleoriented equipment
- Project Organisation Structure, This section should highlight the (V) Bidder's organisation structure for the project implementation and define the specific organisational elements within this structure that would interact with the Gol, SHQ and other Indian Production Agency during the program execution.
- Lifetime product support plan. (vi)
- Plan for soil test report for the project. (VII)
- (viii) Any Other Issue That the Bidder Finds Relevant. This section would include any issues that the Bidder finds relevant for the implementation of the program.
- Proposed methodology for the execution of project CTC, including (ix)any changes proposed in the methodology of the services indicated. It should be accompanied by the consultant's initial view, key challenges and recommendations on the adoption of superior/ alternative technology to meet the specified objectives.
- Post contract, the L1 Bidder will submit a PR Project Report (PR). covering the key aspects highlighted in the PPR and detailed project * VER I ED* implementation plan for 'Make' portion.

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- 25. <u>Bureau of Indian Standards (BIS)</u>. The PPR should list out the technical and civil infrastructure requirements including the equipment proposed to be fitted and list out the latest BIS code (including the concerned organisation code) that has been promulgated by the Gol. Eg BIS defines the building standards and the fire fighting arrangement in the building. The reply to the RFP should, therefore, include the BIS and the Centre for Fire, Explosives and Environment (CFEES) regulation, in case of unevailability of a BIS code for a particular infrastructure/ equipment, an equivalent and valid standard is to be mentioned. The standard code should cover all technical and civil infrastructure as well as associated infrastructure regulated for the CTC.
- 26. In addition, the technical offer shall comprise of the following:-
 - (a) Technical Proposal should be duly signed by the authorised person on behalf of the bidder.
 - (b) Consultant's organisation and experience.
 - (c) Site Appreciation (in A4 size pages in font size 12 in 1,5 space, including photographs, if any).
 - (d) The composition of the proposed team and tesk assignment of individual personnel. It should also include a specific Point of Contact for Preparation of the DPR.
- 27. <u>Mailcious Code Certificate</u>. The Bidder is required to submit a 'Malicious Code Certificate' (only for Electronic items and Software) along with the Technical Proposal. The format is placed at Appendix D to this RFP.
- 28. Evaluation of Technical Offers. The Technical Offer submitted by the Bidder will be evaluated by a Technical Evaluation Committee (TEC) to confirm that the proposal for infrastructure, equipment, being offered in the DPR for filment in the CTC meets the operational/ fraining requirements of the user as elaborated at Appendix A (including Annexures to Appendix A). The evaluation will be carried out by the TEC.
- 29. Monitoring of Project Based on Contractual Milestones/PR (as applicable). After placement of order, the progress of the project will be monitored by the Buyer for compliance with various activities towards achieving contractual milestones/DPR involving delivery/Installation/ integration/trials etc. The contractual milestones will be integral part of the contract. In case the project does not proceed as per the indicated timelines for various contractual milestone(s), the Buyer will have the right to invoke termination of the project. The indicative list of Contractual Milestones and broad range of timelines (earliest and latest time for completion) for the project is as follows (to be used for preparation of PPR and PR):-

SI	Milestone	Timeline (To+Weaks)	Remarks
		j	

- 36. The Bidder is to indicate the proposed limelines for the above milestones in the Technical Bid. On conclusion of the Contract, these milestones will be monitored by the Buyer.
- 31. Periodic Situation Report. An update on the progress of formulation of the DPR is to be conducted by the shortlisted firm to the Indian Navy every quarter after the award of Contract at the decided location (New Delhi/ Karwar). The main purpose of the exercise would be to brief Indian Navy on the progress made and issues faced, if any. In case of any major deviation from the envisaged outcome, Indian Navy reps will provide the course correction. In case any major issue is being faced, the firm is to intimate Naval Headquarters immediately and natival for the periodic report.

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PART III - COMMERCIAL REQUIREMENTS

32. The third part of the RFP consists of the commercial clauses and Standard clauses of contract. The bidders are required to give confirmation of their acceptance of these clauses.

Commercial Bld.

- 23. The Bidder is requested to take into consideration the *Commercial Clauses and Payment Terms* given at Appendix E to this RFP while formulating the Commercial Offers. The bidders are required to quote their price in Price bid format given in Appendix F to this RFP.
- 34. Commercial offers will be opened only of the Bidder whose equipment is short-listed, after technical trials and staff evaluation. The Commercial Offer must be firm and fixed and should be valid for at least 18 months from the last date of bid submission.

Commercial Bid Opening

- 35. The Commercial Offers will be opened by the Contract Negotiation Committee (CNC) and if Bidder desires he may depute his representative, duty authorised in writing, to be present at the time of opening of the offers.
- 36. The date, time and venue fixed for this purpose will be intimated separately after the evaluations are completed.

Additional Aspects

- 37. Standard Conditions of RFP. The Government of india desires that all actions regarding procurement of any equipment are totally transparent and carried out as per established procedures. The bidder is required to accept our standard conditions furnished at Appendiix G to this RFP regarding Agents, penalty for use of undue influence and Integrity Pact, access to books of accounts, arbitration and clauses related to Law, These conditions along with other clauses of the Contract form the Standard Contract Document (as at Chapter VI of DAP 2020) indicates the general conditions of contract that would be the guideline for all acquisitions. The draft contract would be prepared as per these guidelines.
- 38. The DPR should include milestones for compliance with various activities towards achieving contractual obligations /DPR Involving delivery/installation/ integration/trials etc. The contractual milestones will be integral part of the contract. In case the project does not proceed as per the Indicated timelines for various contractual milestone(s), the Buyer (Indian Navy) will have the right to invoke Fermination of the project. The indicative list of Contractual Milestones and broad range of timelines (earliest and latest time for completion) for the project is as follows (to be used for preparation of PPR and PR):-

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PART IV: BID EVALUATION AND ACCEPTANCE CRITERIA

- 39. A list of documents/ details to be submitted along with the bids is placed at **Appendix K** as a reference to help in completeness of bid and meeting the procurement process schedule.
- 40. The blds shall be unconditional and unqualified. Any condition or qualification or any other stipulation contained in the bld shall render the bid liable to rejection as a non-responsive bid.
- 41. The bid and all communications in relation to or concerning the bidding documents shall be in English language.
- 42. Evaluation and Acceptance Process.
 - (a) Evaluation of Technical Proposals. The technical proposals forwarded by the Bidders will be evaluated by a Technical Evaluation Committee (TEC). The TEC will examine the extent of variations/differences, if any, in the technical characteristics of the services offered by various Bidders with reference to the QRs and prepars a "Compliance Statement" for shortlisting the Bidders. Evaluation by TEC will be carried out, which will give out the compliance of the services vis-à-vis the requirements. The compliance would be determined only on the basis of the parameters specified in the RFP. The TEC will analyse the technical documents provided by the vendor and shortlist the equipment recommended for introduction into service.
 - (b) <u>Evaluation of Commercial Bid</u>. The Commercial bids of only those bidders will be opened, whose technical bids have been cleared by TEC. Comparison of bids would be done on the basis of Evaluation criteria given in Appendix F to this RFP. The L-1 bidder would be determined by Contract Negotiation Committee (CNC), Only L-1 bidder would be invited for negotiations by CNC.
 - (c) <u>Contract Conclusion</u>. The successful conclusion of CNC will be followed by contract conclusion.

Appe<u>ndix A</u> (Refers to Para 19 of RFP)

OPERATIONAL CHARACTERISTICS, FEATURES AND SCOPE OF ACTIVITIES

The extant case is for Preparation of DPR, Consultancy for Contract Conclusion and Project Monitoring is for the raising of Combat Training Centre at Karwar. The broad deliverables required in Preparation of DPR, Consultancy and Project Monitoring have been enumerated in the succeeding paragraphs. The tife of the infrastructure should be atleast 50 yrs.

Preparation of Detailed Project Report

- The raising of actual infrastructure would be progressed subsequently as a Buy 2. (Indian - IDOM) project. Specifications of the equipment thus proposed, should include the requisite amount of IC law DAP 20.
- As the project is co-located with ongoing Project Seabird (PSB), the consultant is to work in consultation was the Principal Consultant of PSB to avoid duplication and establish inter-linkages in mean pady existing intrastructure.
- Since the case consists of technical and civil infrastructure, the deliverables of the OPR are enumerated in succeeding paragraphs. These are to be read in conjunction with the deliverables as mentioned in the covering letter to this RFP. They have been further divided into sub-neads for easier assimilation.

5. Land Issues.

- Land utilisation plan and scope of work involved is to be provided. Although 75 acres of land has been earmarked for the project, it includes forested areas and hit slopes. As far as possible construction is to be undertaken on flat/ level ground within the area allotted. A proper terrain survey of the entire earmarked land, therefore is to be carried out to define the suitable for construction.
- Environment impact assessment, including seismic survey and miligation (b) plan.
- Details of surveys and investigations (surface, sub-surface and underwater) required to be undertaken with cost.
- List of all clearances alongwith procedure and agencies from which these are to be obtained.
- Disaster related risk assessment, including earthquakes and cyclones and *VEKINJED* mitigating measures.

Environmental compliance cost and clearances required for the same.

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- Carry out survey of the location and study all issues in project implementation including necessary clearances and agencies involved.
- (h) Quantity and types of frees on forest land required to be cut.
- Operational/ Technical Infrastructure. The DPR should include detailed specifications of the technical infrastructure and equipment proposed to be fitted. This should also include the training requirements for the operator/ maintainer alongwith the envisaged maintenance schedule. Following is elso to be included:-
 - Integration requirements between the Infrastructure and equipment, (a)
 - Technical specifications including requirement of test bed, where required. alongwith general layout designs and drawings,
 - Technical specifications of the training facilities being fitted in the CTC. (C)
 - Acceptance, testing and conficetions procedure of the proposed (\mathbf{d}) equipment, if required.
 - Training requirements for monofficers and sellors in operating and maintaining the training facility and other associated equipment.
 - Oraw out various civil and marine works requirement in support of technical ofrastructure,
 - The proposal should include a list of alleast three potential suppliers capable of supplying the equipment as specified in the DPR.
 - (h) The proposal should clearly identify and mention the details of Material testing lab facilities, if required, for testing of parachutes and diving sets.

7. Civil Infrastructure.

- Details of specific civil infrastructure components as follows (including following but not limited to those listed below);-
 - Water supply for domestic usage and wave pool including a water. filtration plant of adequate capacity.
 - The facility should have a comprehensive waste treatment plant. which should include all envisaged wastes being produced in the facility egsewage, effluent, waste water etc. The treatment plant should adhere to the latest Central Pollution Control Board regulations for treatment of all wastes eg Air quality, Noise standards of fitted equipment, Power generator set. Water quality, effluent treatment etc. ALL wastewater and solid discharges should be routed through the treatment plant.
 - (iii) Solid waste management system.

- A comprehensive dräinage system (including storm drains) to cater for heavy rainfall (monscor, tomential and cyclonic). All drains should be covered.
- Bituminous all-weather double lane road from Naval Base to CTC (v) as per NHA, guidelines to cater for following requirements:-
 - (aa) Broad enough to permit two way traffic.
 - (ab) Should have all weather usability.
 - (ac) Should have adequate lighting.
 - (ad) Should be designed to permit easy maneuverability of vehicles towing a boat or, trailer up to 10 tonnes weight
- The CTC should have parking infrastructure for the following:-(5)
 - 15 four-tonner trucks in service. (I)
 - For cranes/ specialised vehicles as calculated in the DPR. (ii)
 - 15 SUVs (Plak-up trucks). (iii)
 - 15 Light Motor Vehicles. (iv)
 - 30 motorcycles and 50 bicycles. (v)
- Costing for associated civil, electrical and other works in support of the [C] technical components.
- All civil intrastructure should be able to withstand winds upto cyclone (**d**) category 5 (as per NDMA classification). This would also include storm surges/ tidal waves associated with this evolone category.
- Rain water hervesting system for storage of atleast 1, 00,000 liters of water. The rainwater harvesting system should be comprehensive with an integrated fittration plant, pumping system for re-use etc.

Equipment and infrastructure. 8.

- Identify suitable sources for every specific technical equipment that match the requirements (Indian/ foreign).
- Draw out various civil and marine works requirement in support of technical intrastructure.
- Carry out survey of the location and study all issues in project Implementation including necessary clearances and agencies involved.
- Green initiatives. The OPR is to incorporate the latest green technologies in the raising and subsequent running of the CTC. Additional aspects such as waste management, solar energy, rain water harvesting etc are to be indicated in the DPR, It is to be built law the IGBC Gold Star norms promulgated by Gol and should adhere to * ARRIED* the 5 star IGBC Gold Star rating.

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Security Ali facets of security of the facility from land, sea and air are to be 10. addressed. This should include aspects such as boundary walls, sentry posts, access control measures into facility, CCTV coverage, motion sensors, seaward security etc. Details are in Annexure VIII to this Appendix.

11. Financial

- (a) Total cost of the project including the ratio between civil infrastructures to equipment cost. Detailed Budget cost estimate is also to be provided.
- (b) Bill of material including approximate cost estimates of equipment to be fitted including following for both civil works and equipment to be fitted:-
 - Estimated CIF Value. (i)
 - (ii) Percentage FE Content in Final Product
 - (iiii) Cost of site development.
 - (iv) Cost of physical infrastructure component-wise
- cquisition Costing for civil, electrical allied works, landscaping and dredging in COPY N support of the complete facility.
- Cost implication of the enground that civil clearances required for the **(d)** OG Acq Te project.

12. Miscellaneous.

- Clearances/ design parameter for storage of explosives and weapons. (a) Underground storage may also be explored as per extant CFEES regulations.
- (b) Contracting strategy for the raising of infrastructure is the EPC or Item Rate. contract.

(0)Timelines.

- Estimated timelines of entire work, with phase scheduling of individual works, installation and commissioning requirements to be drawn. A tabulated document with phases and timelines broken down is to be prepared and should serve as Master document for implementation/ project management.
- Project phases, time frames for implementation and critical path/ activity analysis. The timeline for raising the infrastructure is not to exceed. 36 months.
- (d) The DPR should also include, based on the specifications of the equipment *VERIFIED* proposed, details with respect to the conduct of training, maintenance, product support, based on agreed terms of contract in the following format (details of total)

training duration, number of trainee, batch size, place of training etc to be included as applicable):-

- (i) Creation of maintenance infrastructure law Appendix G to Schedule I to Chapter II of OAP 20.
- (ii) Product support for 15 years for the proposed technical infrastructure law Appendix K to Schedule I to Chapter II of DAP 20
- (iii) Manufacturer Recommended List of Spares law Annexure I to Appendix K of Chapter II of DAP 20.
- (iv) List of SMT/STEs, JIGS, Fixtures and infrastructure required for the project law Annexure II to Appendix K of Chapter II of DAP 20.
- (v) Technical literature of proposed equipment to be fitted law Annexure.
 III to Appendix K of Chapter II of DAP 20.
- (vi) Training aggregates for conduct of training by OEM law Annexure IV to Appendix K of Chapter II of DAP 2C.
- (e) Integrated accessing outrolled facility with enhanced security perimeter fencing, CCTVs, control rooms atc.
- (f) Associated works to support above infrastructure, like AC plants, RO plants, Electrical system with backup generators, POL storage facilities, battery charging pits, Solar power plants, water filtration plant etc.
- (g) Office spaces for maintenance staff and crew during training.
- (h) Camouflage paint scheme for entire facility.
- (j) <u>Documents</u>. During the course of the assignment to prepare Detailed Project Report, several reports, drawings and documents will need to be submitted by the consultants to IHQ MoD (N) /DSOD. The detailed list is placed at Annexure I to this Appendix.
- 13. <u>Bureau of Indian Standards (BIS)</u>. The DPR should list out the technical and civil infrastructure requirements including the equipment proposed to be fitted and list out the latest BIS code (including the concerned organisation code) that has been promulgated by the Gol. Eg BIS defines the building standards and the fire fighting arrangement in the building. The reply to the RFP should, therefore, include the BIS and the Centre for Fire, Explosives and Environment (CFEES) regulation. In case of unavailability of a BIS code for a particular infrastructure/ equipment, an equivalent and valid standard is to be mentioned. The standard code should cover all technical and civil infrastructure as well as associated infrastructure required for the CTC
- 14. Draw out **technical constituents** of the project which would have to be sourced separately after identification of **individual component requirements** for the **following:**-

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(a)	<u>Anлexure II</u>	•	Multi Level KIII House
(b)	Annexure III		Method of Entry Complex
(c)	Annexure IV	-	Maritime workup station
(d)	Annexure V	-	Obstacle cum Jungle Firing Range
(e)	Annexure VI	-	Military Operations in Urban Terrain Complex
(f)	Annexure VII		Indoor Firing Range with ⊁iring Simulator Complex
(g)	Annexure VIII	-	Tactica: Fitness Aree
(h)	Annexure IX		Auxiliary requirements for whole facility

Consultancy towards Contract Conclusion for Execution of Project

The firm will be required to provide Consultancy service for Contract Conclusion. selected for raising the infrastructure of CTC. Following facets would be included in the consultancy phase.-Acquisition

- Consultancy during pre-bia Orienting
- (b) Consultation for explanation and acceptance of DPR by the shortlisted firm for raising the CTC infrastructore. The firm will also be required to clarify doubts, if any,
- (c) Assistance in undertaking TEC for the project.
- (d) Assistance in preparation of RFP documents.
- (e) Advise on technical inputs, payment terms, commercial and legal issues.
- (f) Advise on identifying prospective vendors and their selection criteria for consideration of the vendor selection committee.

Project Monitoring (Post Contract Conclusion) for Overseeing Execution of the **Project**

- The firm will be required to position a Project Monitoring Team at the site for the following:-
 - Monitor the construction procedures being used by the firm to ensure formation to the DPR.

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- (b) Ensure coordination between the various agencies involved in the raising of CTC infrastructure.
- (c) Monitor the cardinal deadlines as mentioned in the DPR.
- (d) Consultancy towards Project implementation.
- (e) Acceptance of the infrastructure and equipment in the CTC and their handing over to the MES authorities prior commissioning.
- (f) Monitor timely conduct of training for IN personnel in the operation and maintenance of simulators, wave pool, boat handling equipment and associated equipment.
- (g) Formulation of PERT chart for monitoring the progress of the case.
- (h) Positioning of a least for monitoring the progress of the case including setting up a site office.
- 17. <u>Quarterly Review</u>. A quarterly review of the progress of the project is to be undertaken by the Project monitoring team at the decided location (Karwar/ New Delhi). In addition, a fresh/ updated chart is to be prepared for briefing any senior inspecting officer visiting the site in addition to the quarterly review.

Note: - This format is not all inclusive and certain additional details, if required, would be included as the project progresses.

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Annexure – J (Refers to Para 12(j) of Appendix A)

DOCUMENTS AND FORMAT REQUIRED TO BE SUBMITTED.

1. During the course of the assignment to prepare DPR, several reports, drawings and documents will need to be submitted by the consultants to NHQ /DSOD for perusal. For the purposes of submission, format requirements as laid out below for some of the reports and drawing deliverables shall include but not be limited to following:

Ser	Data Product	Contents Required	Data Format
(a)	Images	360 Deg/ ortho images of entire project site	Geographic Tagged Image File Format(GeoTIFF)
(b)	Topographic Map + Contours	1:1000 scale map with 5 m contours of the project site	Contours geo- referenced shape files(.shp) or .dxt files, .dwg/ .dgn files optional
(c)	Schemetic Map	Geo-referenced (GPS) schematic map of the project including all the components such as the facilities, buildings roadways, required utilities etc.	Georeferenced shape
(d)	3D Digital Map and 3D Fly-in model of the conceptual design	realistic visualization of the	maps in LandXML/ .dxf format, .dwg/ .dgn files opponal. Separate CSV or .xlsx sheet, ODF optional of
(e)	Sub-grade and soil strength		Summary in CSV or .xisx sheet, ODF optional

Technical, pollution, environmental clearances. (IGBC Gold rating certification)
required for the complete facility with underlying procedures involved.

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 Consultants are to keep commonly available software and data packages, and typical uses for data while deciding final formats of data within the constraints of this document or where a format has not been defined.

Format for Submission of Report Deliverables.

- (a) <u>Printed Hard Copies of Report</u>. All reports and documents shall be submitted in both printed hard copy and digital formats. For Hard copies, the consultant shall submit bound volumes (not in spiral binding form).
- (b) <u>Digital Copies of Report.</u> Every report/document shall be submitted in digital format in the following formats:-
 - (i) The final report is to be submitted in the Portable Document Format (* PDF)...
 - (ii) An editable document in the relevant Microsoft Office document format (MS Office).
 - (ili) All tables and modes used to and referred to in the reports shall also be submitted as soread sheets in the relevant MS Office format.
 - (iv) The digital copies of reports shall be submitted in the form of a CD/DVD
- 5. The reply should consist of the following details wrt to the civil and technical infrastructure and equipment:-
 - (e) Level of National standards being adhered to eg BIS, CFEES, NHAI and Indian Standards in Civil Engineering etc during the raising of the infrastructure
 - (b) The concerned BIS standard is to be mentioned against each technical and civil infrastructure.

Annexure – II (Refers to para 14(a) of Appendix A)

BROAD REQUIREMENTS FOR MULTI LEVEL KILL HOUSE (MLKH).

- The Multilevel Kill House should include the following:-1...
 - The Multilevel Kill House should incorporate different designs like hotel (a) lobby, rooms, conference halls, offices of different sizes, ships' machinery and living spaces, etc to bring about vitality in training. The firing area demarcated in the layout should be provided with ballistic panels.
 - Internal tayout of combination of fixed/moveable ballistic panels including (b) bailistic ceiling on ground and first floor capable of 360 degrees live fire. The movable panels should enable changing the layout of the rooms.
 - The building is to be rated throughout for assault rifles, machine gurs, (0) pistols and sniper weapons for calibres of 5.56 mm, 7.62 mm and 9 mm. For external fire, it should be rated for sniper fire using 7.62 and 5.56 mm armunition.

Doors and windows with movable satistic (d)

The complex should consist of Acoustic sansons for geo-location. (e)

- Two multifunctional/smart CQB targets along with portable builet traps in (f) each room.
- Realistic rubber furniture/equipment as appropriate to target settings. (g)
- Suitable ventilation system. (h)
- Adjustable lighting system to simulate various conditions of visibility. (i)
- Audio systems to allow for communication and ability to pipe sound effects to enhance the realism of training.
- The bullet fragments and lead dust shall be removable during maintenance. (1)at user level.
- There should be an internal and external stair-case on the building with (m)ballistic protection to practice intervention drills.
- The approach path in at least two sides of the building should have a clear. (n) approach path of atleast 50 mtrs for a four wheel vehicle and window/ space in **VERIFIED* front to allow entry practice from vehicle mounted ladders into first/ second floors

- (p) The facility should have six mobile sniper towers with adjustable height around the MLKH.
- The facility should be provided with customised targets, according to the needs of specific training program, stationary targets, programmable reactive targets etc.
- 3 There should be a provision of slithering on the rooftop for induction of teams from a field.
- There should be a central Control Post with ballistic protection for the following:-
 - (a) Facility for seating of training team consisting of at least 8-10 personnel.
 - (b) Audio/ Video capture including recording of capture of all training action inside and outside the complex in all conditions of light and darkness.
 - (c) Sound and ght starms to Initiate and terminate the exercise.
 - (d) Introduction of smalls sounds of the battlefield and central broadcast of messages.

Annexure - III [Refers to pare 14(b) of Appendix A]

BROAD REQUIREMENTS FOR METHOD OF ENTRY (MOE) COMPLEX

- The complex will facilitate training on mechanical, thermo-chemical and explosive breaching of various targets in realistic conditions. In addition to the breaching facilities the complex would also include firing area for firing practice on targets placed within the various rooms. The four dation of the complex should be made up of strong reinforced concrete along with pilers to bring out the skeleton of the structure whereas the wall panels should be made up of wood/light weight metal to provide ballistic protection inside and outside the complex.
 - (a) <u>Tactical Breach doors</u>. The Method of ontry complex should have various types of doors usually encountered during special operations. The additional specific requirements of the breach doors are as follows:-
 - (i) Type of Target. PVC, Plywood and ardwood, wood reinforced with metal, alloy/composite materials shutters and hatches.
 - (ii) Re-usability. The frames for these doors shall be designed so that they can be reused to allow practice of Mechanical, Explosive and thermochemical breaching.
 - (iii) <u>Configurations</u>. The doors shall be provided in different configurations such as Left and Right opening.
 - (b) <u>Walf Breaching Panels</u>. A number of panels to allow for explosive breaching practice on walls made of different materials.
 - (c) <u>CAMC for Re-installation</u>. The costs for regular re-installation/repairs of Breached doors/well panels including maintenance of smart targets shall be factored as a part of the cost implications of the contract so as to not utilise the MCF manpower for these purposes.
 - (d) Suitable fre-fighting arrangements capable of automatic/remote operation shall be provided.
 - (e) Targets with integral bullet traps on the wheels for CQB shooting.
 - Integration with centralised command and control station.
 - (9) Audio systems to allow for communication and ability to pipe sound effects to enhance the realism of training.

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- (h) The building should be constructed in such a way so as to facilitate top entry using Rappelling into the rooms through windows (for rappelling), with the window frame so made as to allow broaching with live explosive.
- The MOE complex should be a set of multiple multi-storey buildings to enable training in multiple methods of entry into a building/ housing society.
- There should be a central Control Post with ballistic protection for the following:-
 - (a) Facility for seating of training team consisting of at least 8-10 personnel.
 - (b) Audio/ Video capture including recording of capture of all training action inside and outside the complex in all conditions of light and darkness.
 - (c) Sound and light alarms to Initiate and terminate the exercise.
 - (d) Introduction of smalls sounds of the battlefield and central broadcast of messages.
- Virtual Target Projection. The MOE should have facility for target projection such as hologram for target practice.

Annexure -IV Refers to para 14(c) of Appendix A1

BROAD REQUIREMENTS FOR MARITIME WORKUP STATION

- A Maritime workup station with a covered shed on top of the structure to provide complete protection from weather. The station will comprise of the following:-
 - Oil Rig Mockup. An oil rig mockup target built to scale of an original oil rig. platform so as to depict various levels of the platform, namely Jacket Deck, Main-Deck, Living Quarters, Top Deck (Helipad). The enviseged overall dimensions of the platform are $25 \text{ m} \times 20 \text{ m} \times 20 \text{ m}$.
 - Ship Mockup. A ship mock up larget to represent sections of ship's side, weather deck and superstructure of a merchant ship for MIO workup. The envisaged dimensions of the structure are 25 mx 96 m x 10 m. The mockup shall have different types of guardrail/hooking on fittings usually found on merchant COPY No. 3 ships.
 - Wave Pool. The Oil rig and Shipprockup targets will be constructed on either side of a pool of overall dimensions 50 m x 12 m/x 5m. The pool shall have sultable mechanism for generation of waves to simulate various sea states.
 - CAMC. Comprehensive Annual Maintenance Contract (CAMC) for at least 10 years beyond the warranty period to be procured along with the main. equipment. Additionally, the obsolescence management for the equipment delivered under the scope of contract would from part of CAMC Services. The obsolescence management will include providing "Form, Fit and Function" replacement of any system/sub system rendered obsolete during the period of CAMC.
 - Realistic rubber furniture/equipment and two multifunctional/smart CQB targets along with portable bullet traps in each room of Off rig and ship mockup.
 - (1) Integration with centralised control station.
 - Audio systems to allow for communication and ability to pipe sound effects. to enhance the realism of training.
 - CCTV cameras to allow for remote observation and after action evaluation. (h)
 - * WERFIELD* A covered shed on top of the structure to provide complete protection from weather.

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- (k) The facility should be provided with customised targets, according to the needs of specific training program, stationary targets, programmable reactive targets etc.
- (i) There should be a provision of stithering on the rooftop for induction of teams from a helo.
- There should be a central Control Post with balliatic protection for the following:-
 - (a) Facility for seating of training team consisting of at least 8-10 personnel.

 **Training team consisting of at least 8-10 | Property | Pr
 - (b) Audio/ Vineo capture including recording of capture of all training action Inside and outside the camplex in all conditions of light and darkness.
 - (c) Sound and light elerios to Initiate and terminate the exercise.
- (d) Introduction of smells / sounds of the battlefield and central broadcast of messages.

<u>Annexure – V</u> [Refers to para 14(d) of Appendix A]

BROAD REQUIREMENTS FOR OBSTACLE CUM JUNGLE FIRING RANGE

- 1. <u>Firing Range</u>. It should be a factical shooting range for multi-position training to conduct advanced shooting training from pistol, machine gun and rifle. The facility will be utilised to conduct immediate Action Drifts for the trainees. Salient requirements of the same are as follows:-
 - (a) The facility shall be constructed in such a manner that there is an earthen embankment lining both sides of the firing track. The dimensions of the embankment shall allow for firing in multiple directions and at multiple spots throughout the length of the course.
 - (b) The targets shall be in such a manner that the base of the target is adequately protected/implanted in groups y No. 2
 - (c) The control and monitoring of the provided targets shall be integrated with the centrallead control station. The targets keptralong the lane may be divided into number of zones. Each zone should either be activated from Control Station or with the help of motion sensor.
 - (d) The firing track should utilise natural obstacles to simulate movement of Special Forces in a jungle terrain.

Target System.

- (a) The targets should be advanced, rugged and highly sophisticated electromechanical target system.
- (b) The larget system should have inbuilt 'hit sensors' and wireless control which should enable hoisting a target on command.
- (c) The target system with portable bullet traps. The distance between the targets should very from 100-500 maters.
- (d) The targets provided with the jungle lane shall be weather proof.

Assault Weapon Firing Range

- The Assault Weapon Firing range should have the following parameters:-
 - (a) Enable firing from a range of upto 500 mtrs. The range should have designated firing line every 25 mtrs.

- The range should have a width to accommodate 25 firers simultaneously in **(b)** a single line laterally.
- The range should be capable of supporting fire of ammunition of caliber's 5.56 mm, 7.62 mm, 9 mm and 12.7 mm (anti-materiel rifle). The range should also be capable of handling firing of Under Barrel Grenade Launchers (40 mm), Automatic Grenade Launcher System(40 mm) and 84 mm Rocket Launchers.
- The range should be capable of supporting fires from automatic weapons (d) including machine guns.
- The range should be located on a dirt/ gravel area in a straight line. (e)
- The firing range should support moving fire laterally and in depth. (f)
- Sniper Firms. The firing ange, in continuation should have an elevated (g) fining platform at 750 wir 1900 mtr and 1500 mtr respectively to support simultaneous firing by 05 spipers alongwith with placement of spotters.

Obstacle Course

- The obstacle Course should have the following parameters:-4,
 - The Obstacle Course length will be of 1.2 km approx. (8)
 - The Obstacle Course will include seventeen obstacles
- */TRICITED* No, of firing areas in the obstacle course will be 12 approx.

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Annexure - VI Refers to para 14(e) of Appendix A1

BROAD REQUIREMENTS FOR MILITARY OPERATIONS IN URBAN TERRAIN. (MOUT) COMPLEX

- The MOUT area is specifically designed to replicate a realistic urban setting, with a wide range of buildings and facilities that simulate every possible situation of urbanwarfare or conflict within cities and villages. The MOUT complex should offer comprehensive live training stage for operations taking place in public squares, residential buildings, business areas, banks and gas stations.
- The buildings consisting of MOUT complex should be planned and constructed to implement training programs that enable the following:-
 - Live Firing Training. The building is to be rated throughout for assault rifles, machine guns, pistols and squaes meapons for catibres of 5.56 mm, 7.62 mm and 9 mm.
 - COPY No. 3 Video Feed to a Single Control Room. There should be a facility of monitoring the full facility using day hight carrieras and microphones to allow full post training review and evaluation
 - Real Life Special Effects. The MOUT complex should be fitted with real. life special effects including concussion wave cannons, machine gun simulator, speakers in addition to battlefield smoke and smell generators.
- The MOUT complex should consist of the following sections for undertaking training on multiple and diverse training operations:-

(a) Urban Compound -

- The facility would consist of minimum 10 multi-storey buildings with a total of minimum 50 rooms similar to a town or city with realistic furniture. and training Props.
- ffit). The compound should be designed to replicate a city which would consist of a hospital, a Police Station, a radio station, a factory, a bank, a hotel, movie-theater, a school, warehouses, administrative and civilian buildings etc.
- (iii) The buildings of compound should be capable of supporting Special. Helicopter Borne Operations (SHBO) such as slithering, rappelling etc. with one of the buildings (such as hotel) capable of supporting halicopter *VERIFIED* andings. Also, rooms of first two floors of hotel can be made similar to the rooms of Kill house which can allow for live firing exercises.

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(iv) The roads ad intersections should be hardened to support all types of track vehicles.

(b) Rural Compound:

- (i) It would consist of compound with minimum five houses (single-storey or double-storey) in close vicinity with a total of minimum 20 rooms with realistic furniture and training props similar to Indian villages.
- (r) The compound would consist of cow shed, a temple, Primary Health Center, houses similar to mud houses, crops storing facility etc.
- (rii) An open field Helipad adjacent to compound to support SHBO.
- (c) Residential Population Centre. It should consist of multiple buildings representing an apartment complex of three floor, mall complex of two floors and an aircraft replica.
- (d) Dansely Populated Residential Area
- (e) Big Villa Complex
- (f) Public Area.
- (c) Market Complex
- (h) Replica of a bank.
- (i) Gas station.
- (k) Industrial area.
- (i) Real size reptica of a warehouse.
- 4. The facility should allow for realistic fire exercises with the use of Man Marking Rounds available in 5.56 mm, 7.62 mm and 9 mm. The frames for doors of these buildings shall be designed so that they can be reused to allow practice of Mechanical, Explosive and thermo-chemical breaching.
- 5. The facility should maintain an audio-visual capability of external cameras providing 360 degree coverage of all possible approaches to the town as well as complete coverage within the buildings and compound. The buildings should contain extensive audio-visual network system of internal cameras covering all entries.

- 6. A Master Control Station controlling and monitoring all activities within facility. The control station should also be able to control lighting systems. Advance Target systems, Smoke Generators etc. for all buildings within facility together as well as separately based on requirement.
- 7. The building must have Battlefield Effects Simulator which is controlled from control station and must include Fire Back devices. Battlefield sounds smoke generators, battle field smells and Advance target systems.
- The targets for practice within buildings must include Static targets, Portable targets and Snapshot Targets. The characteristics of targets are similar to targets specified for Indoor Shooting Renge.
- 9. Recording and replaying of all exercises within facility with the provision to zoom in and out entire recording.
- 10. <u>CAMC</u>. Comprehensive Annual Maintenance Contract (CMC) for at least 10 years beyond the warranty period to be prequest along with the main equipment. Additionally, the obsolescence management for the equipment delivered under the scope of contract would from part of CMC Services. The obsolescence management will include providing "Form, Fit and Function" replacement of any system/sub system rendered obsolete during the period of CMC.

<u> Annexura – VII</u> [Refers to pera '4(f) of Appendix Al-

Indoor Firing Range with Firing Simulator Complex

- The range should be designed for firing of weapons of different calibers i.e. 1. 5.56 mm, 7.62 mm and 9 mm.
- The range should be capable of enabling 10 or more firers to fire simultaneously 2. and engage targets ahead.
- A central control room behind the line of firers with glass panels overlooking the firers/ shooting gallery end the targets is available.
- The targets should enable the shot hit display in real time including the sequence/ fall of hits at the firer as wetl as the instructor end in the control room. The target make of these targets is as under :-

Self Sealing Precision Target (a)

Cardboard (For enabling shift) To and Fro Target (b)

Steel (c) Horizontal Move Target

Steel or Self Seeling Pap Up and Purning Target (d)

- Precision/ Zeroing Jarger The target should be one main and one reserve per lane, it should be electronic precision target with facility for nit indication and fall of hits at the each firer end and also at the control. The targets should be self-sealing or enable repeated firing of at least 100 rounds without repair. A suitable timer mechanism to enable pre-programmed timed practices should also be provided. The hit indicator at firer end should give number of hits, group diameter or group size. The hit indicator at the first end should have zoom in facility.
- To and Fro (Advancing and Receding Targets). Roof or floor mounted targets 6. for each firing lane with facility for variable speed and stopping the target en route both singly or in groups in various combinations. These should be controlled from the control room. They should have turning and pop up facility in static mode. The speed should be able to be controlled. The system should be able to mount different types of larget i.e. Rubia, Fig 11 etc.
- Horizontal Movement Targets (Friend and Foe targets). At least 4 sets, each set having a two pair of targets, one moving left to right and other right to left with facility * VERIFIED* for variable speed to be controlled from control room. Hit to be indicated by dropping of

- Pop Up and Turning Targets. The target system should enable popping up/ turning in variable time and controlled Individually or in combination. Hit indication to be displayed at each firing point in the firing stalls and also the control room.
- Firing Bays! Stalls. The inter firer partition panels should be made up of Acrylic, Perspex or toughened glass. These panels should be rugged, bullet proof, see through penels with crovisions for following.-
 - Firing from Standing, kneeling, lying and CQB mode, it should facilitate left. shoulder or right shoulder fire.
 - Mounting individual firer display monitors for hit and score indication with zoom in facility.
 - Surtable assembly/ fitment for communication system for each lane as voice. interface between the firer and instructor.

10. **Bullet Proofing.**

- A suitable system at Firing Butt to trap the bullets at the far inside end of range. The Firing Butt should enable recovery of the bullets rather than bullet getting embedded to minimize the risk of lead contamination within the range. The finng butt should cover the area behind the targets in a manner that it absorbs all hits fired including on the target configuration quis
- Suitable non neochel proofing of side walls roof and floor to prevent accidental htt/ricoche...
- Exposed equipment of the target system and the rails should have suitable bullet protection to prevent damage by direct bullet hill or neochet.
- A suitable weather proof Ventilation system to pump in fresh air and flush out. indoor air to ensure lead poisoning is within laid down permissible limit and maintain coo?/ fresh atmosphere within the range,
- A suitable sound absorbing paneling of the range interiors to minimize the sound of gun fire, 50 noise reduction ear plugs with adjustable left and right arm and flexible ear muffles will be included.
- Annual and daily maintenance commitment for at least 10 years should be incorporated in the bid including uninterrupted supply/ replacement of electronic targets *WERIFIED* camer mechanism. Commitment to supply the following quality targets per year for five years as consumable :-

(a) Precision Target 10 Nos

(b) To and Fro Target 30 Nos

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16 Nos Horzontal Move Target (c)

10 Nos Pop Up and Turning Target (d)

Indoor Firing Simulator

- The system should be capable of enabling eight or more firers to fire simultaneously using gas operated weapon replicas of weapons held in MCF inventory. (details will be shared subsecuently).
- Lane should be capable of using weapons of different caliber i.e. 5.56 mm, 7.32 mm and 9 mm. Each lane should have the facility to assign the number of bullets issued individually, with a facility to issue the same number of bullets to all the lanes simultaneously.
- Training should be provided in two modes with visual feecback, normal (regular target) and advanced (moving pendulum).
 - In normal mode the trainee has to view the buil's eye of the target. White the trainee is on builts eye a visual indication should be given to the trainee.
 - In advanced mode the trainer should continuously track a pendulum. The speed of pendulum should be capable of being varied to change the complexity of the training.
 - Feedback as to the percentage of time the traines was on target should be (c) displayed.
- Three types of (arget practice should be possible i.e. Static Target practice, Moving. 17. Target practice and Snapshot Target practice.
- Facility should be provided to change the special effects (tactical scenarios like 18. clouds, fog. wind velocity, dust, smoke, night condition etc.)
- Should be capable of replaying all lanes simultaneously or individual lanes only. Replaying facility providing information on track and bullet numbers at the Point of Impact on the target with the capability of controlling replaying speed. In the case of Individual tanes the replay should be viewed in normal and zoom mode. This should enable the instructor to interpret the mistakes and suggest corrective measures.
- Facility should be provided to view full trace, from beginning to the end of the 20. session, where the movement of the weapons needs to be visually traced, giving an opportunity of time and motion study.
- * VERIFIED* The scoring pattern should be customized to user's needs and should be capable of defining more regions if necessary.

22. Moving Target.

- (a) For Moving target, instructor should be capable of controlling the speed of the target. Instructor should be able to choose from the default paths provided or define their own path. An orthographic view should be provided for defining paths.
- (b) Tergots must appear in various profiles i.e. head-on, oblique, lateral, random path etc. for Moving Target practice.
- (c) Graphical depiction on holding the weapons, giving both, horizontal and vertical movements should be provided.

23. Snaoshot Target.

- (a) For each snapshot target, uptime, downtime, number of exposures, and special effects should be capable of being controlled. Targets with rotate uption should be provided wherein. If the target is hit during visibility phase (uptime), it should rotate.
- (b) An exercise wherein the targets appear at random points should be provided, it should be a computer based system where even the instructor should not be aware in advance where the target will appear.
- (c) An advanced snapshot exercise where each track is assigned a different coloured target. In this exercise the target should appear at random points on the screen,
- 24. A grouping exercise which judges the grouping of bullets fired by a trainee, and provides Hold. Aim and Trigger (HAT) feedback with percentage accuracy in each of the above aspects should be included.
- 25. Scanarios for hostage rescue, VIP security, ambush, patrolling, CI ops etc. should be included. It should be customizable by the end user.
- 26. A software with all relevant manuals to be provided which can store complete details of traines including their rank, score etc. Their performance over a period of time should be stored and displayed as ad when required.
- 27. Different types of operational area should be provided such as BUA, high rise buildings, shopping malls, jungle, oil rigs and mountain terrain etc.
- 28. Range projection upto 2000 meters with the facility to preview the range in the setup.

Common Regulrements for all Firing Ranges

- 29. All the firing ranges should have a Remote Observation Centre (ROC) for observing the conduct of firing exercises in real time:-
 - (a) Audio systems to allow for communication and ability to pipe sound effects to enhance the realism of training.
 - (b) The range should have its own lighting. It should have variable light intensity control, enabling training in realistic lighting conditions of day and night.
 - (c) The facility should have a facility of generating battlefields smell, sounds and smoke to simulate battlefield conditions.
 - (d) CCTV cameras to allow for remote observation and after action evaluation. All monitors in control room should be up to 19 inches or greater. Suitable computer chairs from reputed manufacturers numbering six to eight be provided for the control room.
 - (a) Master control for the ventilation system (for indoor ranges).
 - (f) Communications system for interface with individual firer and with the group which should also be used as central announcement system.
 - (g) Real time score controlling aff-targets Individually or jointly.
 - (h) Master control torcine electronic precision cum zeroing target. Also, the facility to view all or individual targets in real time with zoom in facility
- 30. A suitable noiseless generator from reputed manufacturer that could take the operational load of entire range.
- 31. <u>Virtual Target Projection</u>. The complex should have facility for target projection such as hologram for target practice.
- 32. <u>CAMC</u>. Comprehensive Annual Maintenance Contract (CMC) for at least 10 years beyond the warranty period to be procured along with the main equipment. Additionally, the obsolescence management for the equipment delivered under the scope of contract would from part of CMC Services. The obsolescence management will include providing "Form, Fit and Function" replacement of any system/sub system rendered obsolete during the period of CMC.
- 33. Post Installation warranty for at least 10 years.

Demolition Range

- 34. The demollion range should adhere to the following specifications:-
 - (a) Enable conduct of multiple simultaneous demolition of High Explosives (PE, TNT, RDX etc) upto a combined weight of 1 kg.
 - (b) The range should have a sheltered location for lobbying of hand -grenades.
 - (c) The range should have a covered shed for conduct of field classes on demolition.
 - (d) The location of the demolition range should caler for the safety distances.

Annexure - VIII [Refers to para 14 (g) of Appendix A]

BROAD REQUIREMENTS FOR TACTICAL FITNESS AREA

- The area will be used for physical preparation training of the Special Forces. The tactical fitness area should be an indoor facility with the capacity to train 100 Special Forces personnel simultaneously.
- The foors and walls should be covered with Olympic grade judo/ MMA mats that 2. present suitable grip for the trainees. The tactical fitness area should be complemented with accessories, not limited to the undermentioned list, to undertake the following activities:
 - Focus mitts, kick pads, Thai pads and shin guards (e)
 - Power logs and squad logs **(b)**
 - Acquisition (c) Plyo box Bumber Places Y 1 (d) (**e**) Dual ghip
 - (f)Sleds etc
- The tactical fitness area should have a cross fit training equipment alongwith calisthenics training eapt.
- Commando Tower. It is a high use platform that will offer a variety of training skills to a Special Forces operative. It should include the following:-
 - The Commando tower should be 10 storey's high. (a)
 - The Commando tower should have the facility to train in the following: (b) skill sets:-
 - Fast roping/ elithering for 08 fully equipped Commandos simultaneously.
 - Rappelling and abseifing (ñ)
- *VERIFIED* Artificial wall for rock climbing
 - Each floor should have window openings for rappelling drdls.

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(v) The top of the tower should be clear to enable conduct of fast roping from a help onto the roof.

from a helo onto the roof.

(vi) The tower should have a dift for transportation of personnel to each floor

Annexure – IX [Refers to para 14 (h) of Appendix A]

BROAD REQUIREMENTS FOR AUXILIARY REQUIREMENTS FOR FULL FACILITY

- Armoury and Explosive Store. An air conditioned armoury and explosive store
 is to be made for storage of weapons and demolition stores. The facility should adhere
 to the latest Govt/ BIS/ CFEES regulations, Salients are as follows:-
 - (a) Storage of 500 assault weapons (with five magazines each) and 500 pistols (with three magazines each) alongwith accessories. In addition, 100 other weapons (Sniper, LMG, MMG etc) with accessories would also be stored.
 - (b) A room with dimensions 10 m \times 05 mtr with racks for storage of specialist electronic equipment eg night sights, thermal sights, collimatoric sights, GPS etc.
 - (c) A facility for storage of explosives and detonators separately. Explosives such as TNT, RDX etc would be stored in the facility. Underground storage facility may also be required misition to
- 2. <u>Central Monitoring Station (CMS)</u>. The facility should have a Central Monitoring Station, in addition to the local control stations for the various facilities for the following:
 - (a) Monitor all the COTA cameras fitted at all vantage points for monitoring the CTC premises and boundary
 - (b) The monitoring station should have the feed of all the fire and smoke sensors fitted in the CTC. The monitoring station should also have the facility of operating the sprinkling system remotely from CMS.
 - (c) The CMS should have a central announcement system for the whole facility in addition, there should be a facility for announcement in selective area eg MLKH, MOE Complex, firing ranges etc.
- 3. <u>CCTV System.</u> The hull facility should have a comprehensive CCTV system for monitoring the internal compartments, stores, premises, boundary and berthing area of CTC. These will be in addition to those fitted specifically for individual training facilities. A dedicated centralised control center with a data wall should be made to monitor the feed of all cameras fitted in the facility for security purpose eg perimeter walls, berthing areas etc. The CCTV system should have the following facility:-
 - (a) Picture quality of 4K.

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- Recording facility for at least 30 days for all the cameras. (5)
- (¢) An inbuilt battery to provide individual power back up for continuous operation of NLT 24 hours. This should also include the recorder and playback. system. This should be in addition to the power back up being provided by the generator for the whole facility,
- The camera should have the capability of recording during day, night and rainy weather experienced in the area.
- The filment of CCTV system should be such so as to have NO BLIND. **ZONE.** The cameras should have a viewing range of at least 100 mtrs during any. condition of visibility and weather.
- Power Supply. The DPR should calculate and state the total power requirements. for running of the whole facility. Regultement of a power sub-station for the facility, if required, should elso be included. In addition, following is also required;--
 - The CTC should have a generator to provide a power backup to run the full. facility without interruption. The generator should have the following facilities:-
 - An automatic change over switch to change over the power from main to back-up in case of a power failure. In addition, a manual change over switch should also be lifted for each individual facility eg wave pool, crane, launching/ recovery facility etc.
 - The gonerator should have suitable power rating to be able to run the whole facility (including wave pool, indoor firing ranges etc.) continuously and without interruption as if would have run on normal power supply.
 - (iii) The generator should be capable of being refusied whilst running.
 - The fuel storage for the generator should be included in the DPR. The fuel storage should cater for running of the generator for at least 10. days continuously.
 - All electric wring of the facility should be underground. No surface. wiring is to be used. In case of an unavoldable situation, concurrence of IN is to be taken.
- Water Storage Facility. The facility would require adequate storage of fresh. * JEHELE DE water for the various functions. The major water requires to be calculated for the following:-
 - Water in wave pool. (a)
 - Water requirements for normal administrative/ sanitary use. **(b)**

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- All water pipes should be underground or embedded inside the CTC walls. No plumbing should be visible to the naked eye. In case of an unavoidable situation, concurrence of IN is to be taken.
- Adequate pumping facility to caler for the water requirements of the whole (d) facility.

Security Wall around Facility. 6.

- The whote facility should have a double boundary wall perimeter security at least 10 ft height. A concertine wire of height 01 meters should be fitted on top of both the walls.
- The perimeter wall should be dug at least 03 meters into the ground to prevent digging of any tunnel under it
- The internal security wall should have sentry posts with movable flood lights to illuminate any area inside and outside the boundary wall.
- The outer and inner security wall should have a comprehensive CCTV system to monitor all areas upto 100 mtrs around the facility. The outer well should have a remotely operable security camera which can be controlled from the centralised control center.
- E/COPY No. All software/Hardware should comply with following InfoSec Requirements. InfoSec requirements of W:-

Physical Security (a)

- Physical access to information processing/ storage areas and their supporting infrestructure must be controlled to prevent, detect and minimise the effect of unintended access. The physical security should also ensure protection of components of IT from damage, theft or destruction and prevention of unauthorised user from accessing or altering information that system. the bν processed ís
- Use secure areas to protect sensitive and critical information. Access control measures like biometric based entry, logging mechanism secura: агеа. designated for the desirable etc is:
- All network components should be in racks and held under lock. (iii) and key.
- (b) Environmental Security. The following equipment safeguards should be *ARRIED* ensured: -
 - Ensure battery backup through UPS & alternate supply for protection against unintentional power interruptions.

- (ii) Protection against theft, fire and flooding.
- (iii) Comply with the power supply specifications provided by the OEM.
- (iv) Use of conduits for protection and to prevent unauthorised interception.
- 8. <u>Fire Fighting Arrangements</u>. The whole facility should have a comprehensive Fire-fighting system of fixed and portable equipment. These should be law the latest CFEES guidelines and classified into Internal and Extornal FF systems. The DPR should, in the indicative sketch indicate the position of all these FF systems clearly. Following indicative guidelines should be followed:-
 - (a) There should be a Central Control Post, which is to be co-located with the CCTV control post, where the feed of all the fire sensors can be monitored at all times.
 - (b) All enclosed spaces in the facility including fiving areas should have a fire/smoke/ heat sensor with a feed to the central control post.
 - (c) Fire hydrants are to be toted in a planned manner so that all the areas are accessible by at least two fire hoses?
 - (d) The portable FF extinguishers should be covered to protect them from rain and Sun. The Portable FF extinguishers should be so positioned that they are within 30 sec carriage time away from any location.
 - (e) The FF system should also include hyperbaric extinguishers for re-compression chambers.
- 9. <u>Central Air Conditioning Plant.</u> A central air conditioning plant is to be provided as part of the project to caler for the air conditioning and humidity requirements of the facility. The AC plant should be able to supply non-stop services to the facility with adequate back-up (for maintenance holidays). In addition, it should adhere to the following:-
 - Separate digital temperature controls at each location.
 - (b) Capability to maintain temperature of the facility up to 15 degree Celsius.
 - (c) Should be able to run on the generator supply as calculated in the DPR.
 - (d) The AC plant should be reinforced to run efficiently in the marine environment experienced in Karwar.
 - (e) The material used for the AC plant should majorly consist of resistant material for efficient operations in a coastal environment.
 - (f) The AC plant should be designed to minimise human involvement in the running and switching in.

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Appendix B (Refers to Para 19 of RFP)

COMPLIANCE TABLE

For Preparation of Detailed Project Report, Consultancy for Contract Conclusion and Project Monitoring for Combat Training Centre at Karwar

Ser No	Requirement as per the RFP	Compliance Partial Compliance	Indicate references of Paras/Sub Paras of the Main Technica Document
Gener	al Conditions of RFP		
(a)	Preliminary Project Report		
(b)	Non-Disclosure agreement		
Tech	nical Parameters as per Annendix A		
(c)	As per Appendix A (including Annexures)		
Com	mercial Parameters as per RFP		
(d)	Advance Payment Bank Guarantee as per Annx I to Appx E of RFP		
(e)	Performance-cum-Warranty Bank Guarantee as per Annx II to Appx E of RFP		

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Appendix C (Refers to Para 10 of RFP)

VALIDITY CLAUSE

- 1. The SELLER warrants that the services supplied under this contract conform to technical specifications prescribed and shall perform according to the said Technical Specifications.
- 2. The SELLER warrants the validity of the DPR for a period of 36 (Thirty Six) months from the date of acceptance by competent authority in the IN. This would also include the specifications and cost of the equipment mentioned in the DPR to be the same for the validity period.

Appendix D (Refers to Para 27 of RFP)

CERTIFICATE: MALICIOUS CODE (To be rendered on the Company Letter head)

- This is to certify that the Hardware and the Software being offered, as part of the Contract, does not contain embedded malicious code that would activate procedures to:-
 - Inhibit the desired and designed function of the equipment. (a)
 - Cause physical damage to the user or equipment during the exploitation. (b)
 - Tap information resident or transient in the equipment/ networks. (c)
- The firm will be considered to be in breach of the procurement contract, in case 2. physical damage, loss of information of infringements related to copyright and intellectual Property Rights (IPRs) are caused due to activation of any such malicious code in * UEPIKIED* embedded software.

(Signed)

Designation/Name/Address of firm

Date:

Place:

Appendix E (Refers to Para 33 of RFP)

COMMERCIAL CLAUSES

- 1. Payment Terms
- 1.1. INCOTERMS for Delivery.
 - 1.1.1. The delivery of DPR will be based on DDP INCOTERMS-2020 with ultimate consignee as NHQ/ DSOD.
- 1.2. Currency of Payment Indian bidders should submit their bids in Indian Rupees.
- 1.3. Contract Price and Requirement of Bank Guarantoes
 - 1.3.1 Total Contract Price will be the final price. negotiated by CNC including taxes and duties applicable at the time of signing of COPY No. Contract.
 - 1.3.2 Base Contract Price The Base Contract Price will be considered as Total Contract Price excluding taxes and duries applicable at the time of signing of Contract and excluding the Total Price of CMC.
 - 1.3.3 Bank Guarantee(s). For the purpose of payment of Advances to the Bidder and submission of various Bank Guarantees by the Bidder i.e Advance Payment Bank Guarantee (APBG) and Additional Bank Guarantee (ABG), as applicable, Base Contract price will be considered. For Performance cum-Warranty Bank Guarantee (PWBG), Total Contract Price including taxes and duties is to be considered.
 - 1.3.4 All Bank Guarantec(s) requirements viz Advance Payment Bank Guarantee (APBG), Performance-cum-Warrantee Bank Guarantee (PWBG), Additional Bank Guarantee (ABG), Performance Bank Guarantee (PBG) etc are to be submitted as per following:-
 - 1.3.4.1 Indian Bidder. In case of Indian Bidders, the Bank Guarantee(s). shall be from any Indian Public or Private Scheduled Commercial Bank. which is authorised by RBI for government transactions.
- *WERIFED* Payment to Indian Bidders. The schedule for payments will be based on the Buyers requirements, enumerated at succeeding Paragraphs. The summary of delivery schedule, payments to be made and schedule of submission/release of Advance Bank/ guarantee (s), as applicable, is specified at Annexure IV to Appendix E.

1.4.1 Advance Payment, Fifteen (15) % of the Base Contract Price for Preparation of DPR, Consultation for Contract Conclusion and Project Monitoring shall be paid within thirty (30) days of submission of claim and a Bank Guarantee for the equivalent amount, subject to correction and acceptability of the documents submitted. The prescribed format of the Advance Payment Bank Guarantee (APBG) is placed at Annexure I to this Appendix. The Advance Payment Bank Guarantee (APBG) will deemed to be proportionately and automatically reduced until full extinction along with and prorate to value of each delivery, as evidenced by corresponding copy of document proving delivery and involces of goods/services supplied/provided. The date of delivery would be reckoned from the date of release of Advance payment by the Buyer to the Seller (To), provided the Seller submits the documents mandated by the DAP for release of advance by the Buyer within 45 days of signing of contract. In the event of the Seiler not submitting the said documents within 45 days of signing of contract, the period between the 45th day and actual submission of documents will be excluded from the actual date of advance payment to arrive at the delivery date.

1.4.2 The payment to the Indian bidders for the three separate stages is Preparation of DPR, Consultation for Contract Conclusion and Project Monitoring Team will be undertaken as follows:-

Ser	Stage	Condition for payment	%age of payment
	on of Detailed	Project Report	
1.4.2.1	Advance Payment	Signing of contract	15 % of the Base Contract Price quoted for Preparation of DPR, Consultation for Contract Conclusion and Project Monitoring.
		On submitting of complete DPR.	quoted for Preparetion of DPR
	-	On acceptance of DPR poet necessary corrections/ alterations/ modifications as required by the Buyer	quoted for Preparation
Consulta	tion for Contra	ect Conclusion	
		On accord of AoN	20 % of the total cost quoted for Consultancy services
1.4.2.2		Issuance of RFP	35 % of the total cost quoted for Consultancy services

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Ser	Stage	Condition for payment	1 %age of payment
		On signing of contract for execution of the	30% of the total cost quoted for
0 - 1 - 4 14		Project	Consultancy services
Project M	lonitoring		
1.4,2.3		On Completion of facility and Commencement of Trials	30 % of the total cost quoted for Project monitoring services
		Successful completion of trials	25 % of the total cost quoted for Project monitoring services
	-	On Handing over the	30 % of the total cost quoted for Project monitoring services

- 1.4.3 The payment will be made by PCDA/CDA through cheque/ Direct Fund Transfer (DFT) on submission of following documents. (Note: The list given below is illustrative. The documents that may be required, depending upon the peculiarities of the services being provided, may be included/excluded)
 - 1.4.3.1 Ink-signed copy of Seller's bill.
 - 1.4.3.2 Ink-signed copy of Commercial invoice.
 - 1.4.3.3 The relevant Transport Receipt.
 - 1.4.3.4 Inspection Acceptance Certificate of Buyer's OA agency demonstrating compliance with the technical specifications of the contract.
 - 1.4,3,5 Packing List.
 - 1.4.3.6 Certificate of Origin.
 - 1.4.3.7 Claim for statutory and other levies to be supported with requisite documents/GST invoice (with QR code, when made applicable)/proof of payment, as applicable.
 - 1.4.3.8 Exemption certificate for taxes/duties, if applicable.
 - 1.4.3.9 Warranty certificate from the SELLER.
- 1.4.4 In case of failure of the Seller to deliver the deliverables to the Buyer or inordinate delay in the said delivery leading to Termination of the Contract in accordance with Article 22A.1 of SCD, the SELLER will be liable to return payments received against dispatch
- 1.4.5 Payment of Taxes and Duties. Payment of taxes, cutes and statutory levies will be made on submission of requisite documentary proof to Paying authority. Reimbursement of taxes and duties will be as per rates and amounts indicated in the commercial bid/contract or as per actuals whichever is lower.
- 2. <u>Performance-cum-Warranty Bank Guarantee Clause</u>. A Performance-cum-Warranty Bank Guarantee (PWBG) of 5 % of value of the Total Contract Price including taxes and duties would be furnished by the Bidder in the form of a Bank Guarantee to sequentially act as Performance Bank guarantee till the delivery and as Warranty Bank.

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Guarantee on delivery. The PWBG shall be submitted by the Bidder within one month of signing of contract and shall be valid for a period, until three months beyond the validity period, as specified in the RFP. If at any stage, the Performance Guarantee is invoked by the Buyer either in full or in part, the Bidder shall make good the shortfall in PWBG within 30 days by an additional Bank Guarantee for equivalent amount. In the event of failure to submit the required Bank Guarantee egainst invoked Performance Guarantee, equivalent amount will be withheld from the next stage payment till the shortfall in the Bank Guarantee is made good by the Bidder. The prescribed format of the Performance-cum-Warranty Bank Guarantee is placed at Annexure II to this appendix.

- 3. <u>Liquidated Damages (LD)</u> In the event of the Bidder's failure to submit the Documents, supply the stores/ goods perform services, conduct trials, installation of equipment, training and MET as per schedule specified in this contract, the BUYER may, at his discretion withhold cost of the specific lobbatch or 1% of the total contract price, whichever is higher, until the completion of the contract. The BUYER may also deduct from the SELLER as agreed, Inquidated damages to the sum of 1/100 of the delay percentage (Delay percentage = (Period of Delay in Delivery in Weeks) × 100 / (Delivery Period in weeks as per contract)) of the Base Contract Price of the delayed/ undelivered stores/ services mentioned above for every week of delay or part of a week, subject to the maximum value of the Equidated Damages being not higher than 10% of the contract price of the value of delayed stores/ services. (Any extension given by the buyer for the delay attributable to Buyer or Force Majeure Clause to be factored in delivery period). This amendment shall be restricted to the procurement cases of cumulative value upto Rs 250 Cr inclusive of repeat order.
- Denial Clause. In case the delay in delivery is altributable to the Seller or a nonforce majeure event, the Buyer may protect himself against extra expenditure during the
 extended period by stipulating a denial clause (over and above levy of ED) in the letter
 informing the Seller of extension of the delivery period. In the denial clause, any increase
 in statutory duties and/or upward rise in prices due to the Price Variation Clause (PVC)
 and/or any adverse fluctuation in foreign exchange are to be borne by the Seller during
 the extended delivery period, while the Buyer reserves his right to get any benefit of
 downward revisions in statutory duties, PVC and foreign exchange rate. Thus, PVC, other
 variations and foreign exchange clauses operate only during the original delivery period
 The format for extension of delivery period/performance notice under the Denial clause
 is at Annexure III to this Appendix.

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Annexure I to Appendix E (Refers to Para 1.4.1 Appendix E)

BANK GUARANTEE FORMAT FOR ADVANCE

Tc	
The	
Ministry of	
Government of India	
(complete postal address of the beneficiary)	
, , , , , , , , , , , , , , , , , , , ,	
Whereas President of India represented by the Ministry	
it is a second of the s	
entered into a Contract No (No. of Contract), dated (Date of Contract) with M/s (Name of SELLER) (referred to as	
SELLER) and whereas according to the said Contract the BUYER has	
undertaken to make an advance payment of Rs/US #Euro/PS CYen/AUD/SGD	
being payment of % of the lotal value of Rs/	
US \$/Euro/PS £/Yen/AUD/SGO:OPV No. 3 of the said Contract	
being payment of % of the total value of Rs/US \$/Euro/PS £/Yen/AUD/SG0 OPY No of the said Contract, against issuance of an advance guarantee by a bank."	
2. We	
the name of the bank) do hereby undertake to pay the amounts due and payable	
under this guarantee without any demur, merely on a demand from the BUYER	
intimating that the SELLER is in breach of the Contractual obligations stipulated	
in the said Contract. Any such demand made on the bank shall be conclusive as	
regards the amount due and payable by the Bank under this guarantee.	
However, our total liability under this guarantee shall be restricted to an amount	
not exceeding Rs/ US \$/Euro/PS £/Yen/AUD/SGD	
3. We undertake to pay to the BUYER any money so demanded	
rotwithstanding any dispute or disputes raised by the SELLER in any suit or	
proceedings pending before any Court or Tribunal relating thereto our liability	
under this present being absolute and unequivocal. The payment so made by us	
under this bond shall be valid discharge of our liability for payment there under	
and the SELLER shall have no claim against us for making such payment.	
4 16(a further pages that the support have a section of the sectio	
4. We, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the	
saic Contract and that it shall continue to be enforceable till ell the dues of the	
BUYER under or by virtue of the said Contract have been fully paid and its claims	^
satisfied or discharged or till office/ Department/ Ministry of	180
certifies that the terms and conditions of the said Contract	1 29
have been fully and properly carried out by the said SELLER and accordingly	101
discharges this guarantee.	250
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RESTRICTED	4 /

- Wa, further agree with the BUYER that the BUYER shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to very any of the terms and conditions of the said Contract or to extend time of performance by the said SELLER from time to time or to postpone for any time or from time to time any of the powers exercisable by the BUYER. against the said SELLER and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, Amendment issued vide MoD ID No. 4(50)/D(Acq)/08 dated 20.06.2016 or extension being granted to the said SELLER or for any forbearance, act or omission on the part of the BUYER or indulgence by the BUYER to the said SELLER or by any such matter or thing whatsoever which under law relating to success would, but for this provision, have COPY No. effect of so relieving us.
- 6. The amount of this guarantee will be progressively reduced by (percentage of advance) of total value of each part shipment/services against the stage payment released by the BUYER for that shipment/services made by the SELLER and presentation to us of the payment documents.
- This guarantee will not be discharged due to the change in the constitution 7. of the bank or the BUYER/SELLER.
- We, undertake not to revoke this guarantee during the currency except 8. with the previous consent of the BUYER in writing
- Notwithstanding anything contained herein above:-9.

(a) Our liability under this Gueran	itee shall not exceed Rs/ US \$/ Euro/
PS £/Yen/AUD/SGD	_(in words)
(b) This Bank Guarantee shall rec	main valid untit
(hereinafter the expiry date of this	guarantee) the Bank Guarantee will
cease to be valid after	irrespective whether the Original
(c) YVe are liable to pay guarante	eed amount or any part thereof under
this Bank Guarantee only and only if	you serve upon us a written demand
or a claim in writing on or before	(Explry Date).

Dated the _____day of ____ (month and year) * ATRICION S Place: ___ (Name of the bank) Signed and celivered by Through its authorised signatory (Signature with seal)

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Annexure If (Refers to Para 2 of Appendix E)

PERFORMANCE-CUM-WARRANTY BANK GUARANTEE FORMAT

To se
The
Ministry of
Government of India
(complete postal address of the beneficiary)
Dear Sir,
Whereas President of India represented by the Ministry of Government of legis (************************** referred to as BUYFR) have entered into a Contract No deled
(hereinafter referred to as the said Contract With M/s.
(hereinafter referred to as the SELLER) for supply of goods as per Contract to the said BUYER and whereas the SELLER has undertaken to produce a bank guarantee amounting to Rs/ US \$/Euro/PS £/Yen/AUD/SGD which is 5 % of the Total Contract Price (including taxes and duties) to cover is 5 % of Total Contract Price (including taxes and duties) each for Performance and Warranty in sequence, to secure its obligations towards Performance-cum-Warranty to the BUYERs.
2. We, the
any instance under this Guarentee. Your written demand shall be conclusive evidence to us that such repayment is due under the terms of the said Contract. We shall not be entitled to ask you to establish your claims or claims under this guarantee but will pay the same forthwith without any protest or demur. We undertake to effect payment upon receipt of such written demand.
3. We shall not be discharged or released from the undertaking and guarantee by any arrangements, variations made between you and the SELLER, indulgence to the SELLER by you, or by any alterations in the obligations of the SELLER or by any forbearance whether as to payment, time performance or otherwise.

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condu	We further agree that any such demand made by the BUYER on the Bank shall be usive, binding, absolute and unequivocal notwithstanding any difference or dispute alroyersy that may exist or arise between you and the SELLER or any other person.
5.	in πο case shall the amount of this guarantee be increased.
7. author to per perfor Guara	This Performance-cum-Warranty guarantee shall remain valid for a period until months beyond the warranty period as specified in the Contract i.e. up to Subject to the terms of this Bank Guarantee, the issuing bank hereby irrevocably rizes the beneficiary to draw the amount of up to Rs/US \$/Euro/PS £/Yen/AUD/SGD (is 5 % of Total Contract Price (including taxes and duties)) for breach/failure form by the SELLER of any of the terms and conditions of the Contract related to mance and warranty clause. Partial drawings and multiple drawings under this Bank antee are allowed within the above stated cumulative amount subject to each suching not exceeding is 5 % of the Total Contract Price (including taxes and duties) (Rs/Euro/PS £/Yen/AUD/SGD
chang under	This guarantee shall be continuing guarantee and shall not be discharged by any ge in the constitution of the Bank or in the constitution of M/s We take not to revoke this guarantee during the currency except with previous consent IYER in writing.
9.	Notwithstanding anything contained herein above:-
	(a) Our liability under this Guarantee shell not exceed Ra/ US S/Euro/PS
	£/Yen/AUD/SGD (Rupses only (in words).
	£/Yen/AUD/SGD (Rupses only (in words). (b) This Bank Guarantee shall remain valid until 3 months from the date of expiry of werranty period of the Contract, i.e up to (mention the date) which is 3 months after expiry of the warranty period and the BG shall cease to be valid after irrespective whether the Original Guarantee is returned to us or not.
	(b) This Bank Guarantee shall remain valid until 3 months from the date of expiry of werranty period of the Contract, i.e up to (mention the date) which is 3 months after expiry of the warranty period and the BG shall cease to be valid after irrespective whether the Original Guarantee is
	E/Yen/AUD/SGD (Rupses only (in words). (b) This Bank Guarantee shall remain valid until 3 months from the date of expiry of werranty period of the Contract, i.e up to (mention the date) which is 3 months after expiry of the warranty period and the BG shall cease to be valid after irrespective whether the Original Guarantee is returned to us or not. (c) We are liable to pay guaranteed arrount or any part thereof under this Bank Guarantee only and only if you serve upon us a written demand or a claim in writing on or before (Expiry Date).
***	(b) This Bank Guarantee shall remain valid until 3 months from the date of expiry of warranty period of the Contract, i.e up to (mention the date) which is 3 months after expiry of the warranty period and the BG shall cease to be valid after irrespective whether the Original Guarantee is returned to us or not. (c) We are liable to pay guaranteed arrount or any part thereof under this Bank Guarantee only and only if you serve upon us a written demand or a claim in writing on or before (Expiry Date).

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Annexure III (Refers to Para 4 of Appendix E)

FORMAT FOR EXTENSION OF DELIVERY PERIOD/PERFORMANCE NOTICE

Name of the Procurety Energy
Extension of Delivery Period/Performance Notice
To M/s (name and address of firm)
Sub: Contract No datedfor the supply of
Ref. Your letter no dated: dated:
Dear Sir,
1. You have failed to deliver (the (fill in qty.) of Stores/the entire quantity of Stores) within the contract delivery period [as last extended up to] (fill in date). In your letter under reply you have asked for [further] extension of time for delivery. In view of the circumstances stated in your said letter, the time for delivery is extended from (fill in date) to (fill in date). 2. Please note that notwithstanding the grant of this extension in terms of Clause (fill in clause number) of the subject contract an amount equivalent to
3. You are also required to extend the validity period of the performance guarantee for the subject contract from (fill in present validity date) to (fill in required extended date) within 15 (fifteen) days of lasue of this amendment letter.
4. The above extension of delivery date will also be subject to the following Denial Clause:-
(a) That no increases in price on account of any statutory increase in or fresh

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the said Stores, as are delivered after the said date; and,

Imposition of customs duty, GST or on account of any other taxes/duty, including custom duty), leviable in respect of the Stores specified in the said contract which takes place after (insert the original delivery date) shall be admissible on such of

- (b) That notwithstanding any stipulation in the contract for increase in price on any other ground including foreign exchange rate variation, no such increase which takes place after (insert the reckoning date as per DAP 2020) shall be admissible on such of the said Stores as are delivered after the said date.
- (c) But nevertheless, the Buyer shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty. GST or on account of any other Tax or duty or on any other ground as stipulated in the price variation clause or foreign exchange rate variation which takes place after (insert the original delivery date).
- Alt other terms and conditions of the contract remain unaltered. This is without any prejudice to Buyer's rights under the terms and conditions of the subject contract.
- 6. Please intimate year opconditional acceptance of this amendment letter within 10 (ten) days of the issue of this letter failing which the contract will be cancelled at your risk and expense without any further reference to you.

Yours faithfully, (Authorised Officer) Duly authorised, for and on behalf of The President of India

Note: Select one option within () brackets; delete portion within [] brackets, if not applicable; fill in () brackets. Brackets and this note are not to be typed.

Substitute following first para instead of first para in format above, for issuing a performance notice.

1. You have failed to deliver (the (fill in cty.) of Stores/the entire quantity of Stores) within the contract delivery period (as last extended up to) (fill in date). In spite of the fact that the time of delivery of the goods stipulated in the contract is deemed to be of the essence of the contract, it appears that (fill in the outstanding quantity) are still outstanding even though the date of delivery has expired, Although not bound to do so, the time for delivery is extended from (fill in date) to (fill in date) and you are requested to note that in the event of your failure to deliver the goods within the delivery period as hereby extended, the contract shall be cancelled for the outstanding goods at your risk and cost.

Annexure IV (Refers to Para 1.4 of Appendix E)

DELIVERY SCHEDULE AND STAGES OF PAYMENT

The requisite delivery schedule with respect to the deliverables and corresponding. Payment Schedule is as mentioned below. It is to be noted that, in case of discontinuation. of the project at any stage, payment will only be made for deliverables fully completed/ delivered till that date.

2. For Preparation of DPR

Ser	Activity	Delivery		Scheme for	Remarks
		Timelines	Payment	<u>bna noieeimdus</u>	
		<u>(T0 +</u>	6000	Return of	
		months)	COPY NO.	<u>Advance</u>	
			■ 歴 漫	Payment Bank	
			18 3	Guarantees	
(a)	Signing of	T_0	15 % of the Base		
	Contract (T _c)	ÿ	Contract Price		
			cuoted for	to be submitted	to noissimcus
			Preparation of		APBG and
			DPR, Consultation		other relevant
			for Contract		documents
			Conclusion and		
			Project Monitoring.		
	On submitting of	T _c + 18	55 % of the total		
	complete DPR.		cost quoted for		
			Preparation of DPR		ľ
(c)	On acceptance	As per	30 % of the total	8	
,-,	of DPR post	TEC	cost quoted for		
	necessary		Preparation of		
	corrections/	001104410	DPR		
	alterations/				
	modifications				
	as required by				
	the Ruyer				
	110 (11)				18
					1
ote	r - Delivery Imtelir	te will be fr	om the date of relea	se of advance payme	ent / COT /
~~		74 OC 11	0.11 (0 0010 0. 10.00	or carance payme	THE PARTY OF THE P
					1651
				/.	****
			RESTRICTED	<a>a	ent. ************************************

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3 For Consultancy towards the Contract Conclusion.

Şer	Activity	Delivery Timelines (To + months)	Scheme for Payment	Scheme for submission and Return of Advance Payment Bank Guarantees	Remarks
(a)	On accord of AoN		20 % of the total cost quoted for Consultancy services		
(b)	Issuance of RFP	As per procurement timelines	35 % of the total cost quoted for Consultancy services		
(c)	On signing of contract for execution of the Project		30 % of the lotal cost quoted for Consultancy services		

4. Project Monitoring (Post Contract Conclusion) for Overseeing Execution of the Project. The timelines of this phase will be linked to timelines of the raising of the main project.

Ser	Activity	Delivery Timelines (To + months)	Scheme for Payment	Scheme for submission and Return of Advance Payment Bank Guarantees	Remarks
(a)	On Completion of facility and Commencement of Trials	As per execution of project	30 % of the total cost quoted for Project monitoring services		

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Sei	Activity	Delivery Timelines (T ₆ + months)	Scheme for Payment	Scheme for submission and Return of Advance Payment Bank Guarantees	Remarks
(b)	Successful completion of Triats	As per execution of project	25 % of the total cost quoted for Project monitoring services		
	On Handing over the Facility to Indian Navy		30 % of the total cost quoted for Project monitoring services		

Notes:

- Indicative Payment Terms for Projects with Installation and Commissioning. If installation, Integration, STW, Commissioning and Acceptance trials of delivered goods does not involve establishing fructification of a new concept/Development project/validating a proof of concept/IDDM concept, about 10 to 15% of lotal value of the goods is to be retained for installation, integration, STW, Commissioning and Acceptance.
- Indicative Payment Terms for Projects with Installation and Commissioning involving Validation of Design/Proof of Concept If installation, Integration, STW, Commissioning and Acceptance trials of delivered goods involves establishing fructification of a new concept/Development project/validating a proof of concept/IDDM concept, about 25 to 30% of total value of the goods is to be retained for installation, integration, STW, Commissioning and Acceptance.
- Deliveries in Lots/Batches Definition of Lot/Batch. In case delivery is in lots/batches and payment is being made as per the tots/batches, completion of common deliverables like documentation and Training can be linked to completion of a particular LoV Butches required, to be indicated by linking with relevant st. of the lot/balch. If such linking of deliverables is not indicated in the above table, each delivery, including documentation and training shall be deemed as independent deliverable.
- Recommended Methodology for Peyment in Case of delayed Commissioning. If in spite of all efforts to logically evolve the delivery schedule, the *WERIFED* ready for delivery and corresponding infrastructure/associated system/platform is not available for installation and integration in a reasonable time, the supplier cannot be denied payment for work accomplished in conformity with the contract

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schedule. If the next stage of work cannot be executed by the supplier due to delay on the part of the buyer in providing requisite Infra/associated system/platform for STW, commissioning and Acceptance trials in as reasonable time, the payment terms should cater for making 60-70% of the associated stage payment (even before accomplishing requisite work) against submission of a bank guarantee for equivalent amount and firm undertaking from the supplier that they will fulfil all the obligations immediately on evallebility of requisite infrafassociated system/platform.

(If provisions as per SI 4 above are envisaged, the same shall be included in the RFP as (If provisions as per or The REP)
(Acq 100)

Appendix F (Refers to Para 33 of RFP)

EVALUATION CRITERIA AND PRICE BID FORMAT

- Evaluation Criteria. The guidelines for evaluation of Bids will be as follows:-
 - 1.1. Only those Bids will be evaluated, which are found to be fulfilling all the eligibility and qualifying requirements of the RFP, both technically and commercially. The bidder, whose price is arrived as lowest as per Evaluation criteria given in this Appendix, will be declared as L-1 bidder by Buyer.
 - 1.2 <u>In 'Buy (Indian-IDDM)', 'Buy (Indian)' and 'Buy& Make Indian' Cases',</u>
 L-1 bidder will be determined on the basis of quoted cost of all services for the contract including texes and duties payable to Central/State/Local Governments.
 - 1.3 Custom duty on input materials shall not be loaded by the Indian Bidders in their price bids, if they are exempted under the existing Notifications. In such cases, necessary Custom Duty Exemption Certificate (CDEC) shall be issued by the Buyer. In cases where Custom Duty is not exempted, Basic Custom Duty on input material is to be included in the cost of Basic Equipment Installation/Commissioning/Integration BME, ToT, MRLS, SMT, STE, ESP and any other item listed at Column (ii) of Para 2 below.
 - 1.4 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 will prevail and the total price will be corrected based on addicative rates of taxes and duties at columns (vi) and (vii) of Para 2 below, if there is a discrepancy between words and figures, the amount in words will prevail for calculation of price.
- 2. Price Bid Format. The Price Bid Format is given below and Bidders are required to fill this correctly with full details. No column of the Bid format has to be left blank. The clubbing of serials/sub serials to indicate a consolidated cost is not acceptable. Columns of 'quantity'. 'unit cost', 'total cost (including all taxes and duties)', 'GST/IGST (%) and Clustom Duty (%) are to be filled up with '0', 'positive numerical values' or 'Not Applicable' at every row as applicable. If any column is not applicable and intentionally left blank, the reason for the same has to be clearly indicated in the remarks column.

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Ser	ltems	Qty	Unit Cost	Total Cost (including all taxes & duties)	Indicative Rate of Taxes & Outles used to arrive at Total Cost as applicable)		Remarks
					GST/ IGST (%)	Cust om Duty (%)	
(i)	(11)	(00)	(iv)	(v)	(vI)	(viii)	(viii)
(a)	Cost of Preparation of OPR						
(b)	execution of the		劚				
(c)	Cost of Project	0 4oq 1	2.6				
(d)	Any other cost (to be specified).						
(e)	Total Cost (Total of Serial A to D)					Tra .	# This will be used in determining 11 vendor (duly applying provision of Para 1 above)

Note: Taxes and Duties. All Indirect Taxes and Duties will be paid at actuals or as indicated in the Commercial bid by the Bidder, whichever is lower. In case of any change in the tax structure/rates by BUYER's Government, only incremental/decremented change will be paid. * A VERNEIED*

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Appendix G (Refers to Para 37 of RFP)

STANDARD CONDITIONS OF REP.

LAW

The present Contract shall be considered and made in accordance to the laws of Republic of India.

ARBITRATION (For Indian Private Vendors)

- All disputes or differences arising out of or in connection with the present Contract, including the one connected with the validity of the present Contract or any part thereof, shall be settled by bilateral discussions,
- 22 Any dispute, disagreement of question arising out of or relating to this Contract or relating to construction or performance (except as to any matter the decision or determination whereof is provided for by these conditions), which cannot be settled amicably, shall within sixty (60) days or such longer poriod as may be mutually agreed upon, from the date on which alther party informs the other in writing by a notice that such dispute, disagreement or question exists will be referred to the Arbitration Tribunal consisting of three arbitrators.
- Within sixty (60) days of the receipt of the said Notice, one arbitrator shall be nominated in writing by SELLER and one arbitrator shall be nominated by BUYER.
- The third arbitrator, shall be nominated by the parties within ninety (90) days of the receipt of the notice mentioned above, failing which the third arbitrator may be nominated under the provision of Indian Arbitration and Conciliation Act, 1996 (as amended from time to time) or by dispute resolution institutions like Indian Council of Arbitration or ICADR, at the request of either party, but the said nomination would be after consultation. with both the parties. The arbitrator nominated under this Clause shall not be regarded nor act as an umpire.
- The Arbitration Tribunal shall have its seat in New Delhi or such other place in India as may be decided by the arbitrator.
- Aroitration and Conciliation Act, 1996 (as amended from time to time) and the award of such Arbitration Tribunal shat be enforceable in Indian Courts only.

 RESTRICTED The Arbitration Proceedings shall be conducted in India under the Indian

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- 2.7 The decision of the majority of the arbitrators shall be final and binding on the parties to this contract.
- 2.8 Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration including the fees and expenses of the third arbitrator shall be shared equally by the SELLER and the BUYER.
- 2.9 In the event of a vacancy caused in the office of the arbitrators, the party which nomineted such arbitrator, shall be entitled to nominate another in his place and the arbitration proceedings shall continue from the stage they were left by the retiring arbitrator
- 2.10 In the event of one of the parties failing to nominate its arbitrator within sixty (60) days as above or if any of the parties does not nominate another arbitrator within sboy (60) days of the place of arbitrator failing vacant, then the other party shall be entitled after due notice of at least thirty (30) days to request dispute resolution institutions in India like Indian Council of Arbitration and ICADR to nominate another arbitrator as above.
- 2.11 If the place of the third arbitrator falls vacant, his substitute shall be nominated according to the provisions herein above stipulated.
- 2.12 The parties shall continue to perform their respective obligations under this contract during the pendency of the arbitration proceedings except in so far as such obligations are the subject matter of the said arbitration proceedings.

FORCE MAJEURE

- 3.1 Should any force majeure circumstances arise, each of the contracting party shall be excused for the non-fulfilment or for the delayed fulfilment of any of its contractual obligations, if the affected party within (30 days) of its occurrence informs in a written form the other party.
- 3.2 Force majeure shall mean fires, floods, natural disasters or other acts such as war, turmoll, strikes, sebotage, explosions, beyond the control of either party.
- 3.3 Provided the acts of The Government or any state parties of the seller which may affect the discharge of the Seller's obligation under the contract shall not be treated as Force Majeure.

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PENALTY FOR USE OF UNDUE INFLUENCE

- 41 The Seller undertakes that he has not given, offered or promised to give, directly or indirectly any gift, consideration, reward, commission, fees brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing. to do or for having done or for borne to do any act in relation to the obtaining or execution. of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government. Any breach of the aforesaid undertaking by the seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the sellor) or the commission of any offence by the seller or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1988 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the seller and recover from the seller the amount of any loss ansing from such cancellation. A decision of the buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller.
- 4.2 Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the seller towards any officer/employee of the buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favour in relation to this or any other contract, shall render the Seller to such liability/penalty as the Buyer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Buyer.

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Appendix H (Refers to Para 5 of RFP)

NON DISCLOSURE AGREEMENT

This Non-Disclosure Agreement is entered into by and between MoD (Navy) (Disclosing

Party) and located at (Receiving Party) for the purpose of preventing the unauthorised disclosure of confidential information as defined below. The parties agree to enter into a confidential relationship with respect to the disclosure of the RFP for procurement of (name of the Project)
1. For purpose of this Agreement, "Confidential Information" shall include all information or material in which Disclosing party is engaged. If confidential information is in written form, the Disclosing party shall label or stamp the materials with the word "Confidential" or some similar warning. If confidential information is transmitted orally, the Disclosing Party shall promptly provide a written communication indicating that such oral communication constituted confidential information.
2. Receiving party shall hold and maintain the confidential information in strictest confidence for the sole and exclusive benefit of the Disclosing party. Receiving party shall carefully restrict exercise to confidential information to employees, contractors and third parties as is reasonably required and shall require those persons to sign Non-Disclosure restriction atteast as protective as those in this Agreement. Receiving party shall not, without prior written approval of Disclosing party, use, publish, copy, or otherwise disclose to others, or permit the use by others or to the detriment of Disclosing party, any confidential information. Receiving party shall return to the Disclosing party any and all record, notes and other written, printed or langible materials in its possession pertaining to confidential information immediately if Disclosing party requests it in writing.
 Nothing contained in this Agreement shall be deemed to constitute either party a partner, joint venture or employee of the other party for any purpose.
4. If any provision of this Agreement is held to be invalid or unenforceable by court of law, the remainder of this Agreement shall be interpreted so as best to effect the intent of the parties.
5. This agreement expresses the complete understating of the parties with respect to the subject matter and supersedes all prior proposals, agreements, representations and understandings. This Agreement shall not be amended except with the written consent of both the parties.

<u>RESTRICTED</u>

liberty to terminate the services of receiving party without assigning any reason and shall

also be liable to proceeded against in a Court of Law.

*/TOMETHE WAS

That in case of violation of any clause of this Agreement, the Disclosing party is at

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7. This Agreement and each party's obligations shall be binding on the representatives, assigns and successors of such parties. Each party has signed this Agreement through its authorised representatives

Disclosing Party	(Signature)
Date	(Typed or Printed name)
Receiving Party	B to Acq Technology
ė.	(Signature)(Typed or Printed name)
Date	(Typed or Printed name)
	Variation 1

Appendix J (Refers to Para 7 of RFP)

CRITERIA FOR VENDOR SELECTION / PRE-QUALIFICATION FOR - RFP ISSUE / INCLUSION IN RFP REQUIREMENTS (Only For Multi-Vendor Cases, Not applicable to DPSUs/PSUs.)

1. The vendors would be shortlisted based,on the evaluation criteria as follows.-

SJ No	Parameter	For all Cases except Shipbuilding (Ch XII), Make (Ch III & IV) and Strategic Partnerships (Ch VII)
1	Financial	Strategic Partiterships (Off Vit)
а	Crecit Rating	
b	Average 6	Edrificognised startups/ registered MSMEs, refer to Para 5 and
	Annual Tural Over	5A of Annexure IV to Appendix A to chapter II of DAP 20,
C	Net Worth	
þ	Insolvency	The entity should not be under insolvency resolution as per IBC at any stage of procurement process from the issuing of RFP to the signing of contract.
2	Technica!	
э	Nature of Business	Consultancy of Operational/Training/Infrastructure building capability:
þ	(i) nlegration experience	Where product involves integration, previous experience of not less than one year/ one project in integration of systems/ equipment shall be required.
	(ii) Turnkey Projects	Experience of successful completion of one Turnkey project of similar nature within last 05 Years with value of at least 20% of AoN cost or
	Experience	currently executing a contract of similar nature with value of at least 30% of the AoN cost. In case of no experience in turnkey projects the vendor for main component of the turnkey project may be selected if h
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<u>SI</u> No	Parameter	For all Cases except Shipbuilding (Ch Xii), Make (Ch iii & IV) and Strategic Partnerships (Ch VII)
(4		has experience of minimum 02 years in broad areas like civil industrial infrastructure building or integration of similar equipment/ system or system of systems.
3	Others	Service and a se
а	Registration	Registered for Min 02 Years. Min no of years not applicable for JVs constituted specifically for a project.
		*

Appendix K (Refers to Para 39 of RFP)

DOCUMENTS TO BE SUBMITTED BY THE BIDDER ALONG WITH THEIR TECHNO-COMMERCIAL PROPOSALS

The list of documents which needs to be mandatorily submitted by the Bidders as part of Technical Proposal are placed below. Non-submission of the documents may result in disqualification of the Bidder from the bidding process.

Ser No.	Reference	Document Description
1.	Para 6(a) of RFP	Declaration by Bidder : Debarment of vendors
2.	Para 10 of RFP	Validity Period of the Report
3.	Pare 13 of RFP	Declaration by Bidder : Patent Rights
4.	Pare 14 of RFP	Declaration by Bidder ; Fall Clause
5.	Appendix B Acqui	Compliance Table
6.	Appendix COP	Validity Clause
7.		Certificate: Malicious Code
8.	Appendix B	Commercial Clauses
9.	Appendix F	Evaluation criteria and Price Bid Format
10.	Appendix G	Standard Conditions of RFP
11.	Appendix H	Non-disclosure agreement

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Appendix L

GLOSSARY

ABG	Additional Bank Guarantee	
APBG	Advance Paymont Bank Guarantee	
AMC	Annual Maintenance Contract	
AoN	Acceptance of Necessity	
ATE	Automatro Test Equipment	
ATP	Acceptance Test Procedure	
AMC	Annual Maintenance Contract	
BIŞ	Bureau of Indian Standards	
CAMC	Comprehensive Annual Maintenance Contract	
CDA	Controller of Defence accounts	
CFEES	Centre for Fire, Explosive & Environment Safety	
CKD	Completely Knocked Down	
CMS	Central Monitoring Systemacquisition	
CMC	Comprehensive Maintenance Contract	
CNC	Contract Negotiation Committee 10.	
CQB	Close Quarter Battle 👸 🦱 🎊	
CTC	Combat Training Centre	
COTS	Commercially Off The Shelf	
DAC	Defence Acquisition Council	
DAP	Defence Acquisition Procedure	
DDP	Directorate of Defence Procurement	
DFT	Direct Fund Transfer	
DGAQA	Director General of Aeronautical Quality Assurance	
DGNAL	Director General Neval Armament Inspectorate	
DGQA	Director General of Quality Assurance	
DPB	Defence Procurement Board	
DPR	Detailed Project Report	
DAP	Defence Acquisition Procedure	
DRDO	Defence Research and Development Organisation	
DSOD	Directorate of Special Operations and Diving	
EMC	Electro Magnetic Compatibility	
EMD	Earnest Money Deposit	
EMI	Electro Magnetic Interference	2
EPP	Enhanced Performance Parameters	
EPC	Engineering, Procurement and Construction	
ESP	Engineering Support Package	
FET	Field Evaluation Trials	
FFCs	Friendly Foreign Countries	
GPS	Global Positioning Satellite	
Gol	Government of India	1
GST	Goods and Services Tax	1 18

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IA	Indian Army
AF	Indian Air Force
IC	Indigenous Content
ICADR	International Centre for Alternative Dispute resolution
icg	Indian Coast Guard
IDOM	Indigenously Designed & Developed Manufactured
IGBC	Indian Green Building Council
IM	Indigenously Manufactured
IN	Indian Navy
IP	Integrity Pact
EMD	Earnest Money Deposit
LD	Liquidated Damage
LRU	Line Replaceable Unit
MES	Military Engineering Services
MET	Maintainability Evaluation Trial
MLKH	Multi-Level Kill House
MoD	Ministry of Defence
MOUT	Military Operations in Jrban Terrain
MOE	Method of Entry
MRLS	Manufacturer Recommended List of Spares
N-ToT	Maintenance Translet of Technology
NAY	Naval Arcraft Yard
NLT	Not Less Than
NONG	No Cost No Controllerent
NHAI	National Highway Authority of India
NHQ	Naval Headquarters
OEM	Original Equipment Manufacturer
OIMS	Online Inventory Management System
OTE	Open Tender Enquiry
	Production Agency
PA	Performance Bank Guarantee
PBG PCD4	Principal Controller of Defence Account
PÇDA	Plastic Explosive
PE	
PR	Project Report
PC'P	Pre Contract Integrity Pact
PPR	Preliminary Project Report
PMC	Project Monitoring Consultant
PERT	Program Evaluation Review Technique
PSB	Project Sea Bird
PVC	Price Variation clause
PWBG	Performance-cum-Warranty Bank Guarantee
QA	Quality Assurance
QTP	Quality Test Procedure
ROC	Remote Observations Centre
RFP	Request for Proposal
SCAPHC	Services Capital Acquisition Categorisation Higher Committee
SHBO	Special helicopter Borne Operations

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SHQ	Service Headquarters austitio
SKD	Semi Knocked Down
SQRs	Service Quality Requirements to
SRU	Shop Replaceable Unit
TEC	Technical Evaluation Committee
ToT	Transfer of Technology
	*VERITY

