

**Government of India
Ministry of Communications
Department of Telecommunications
National Telecommunications Institute for Policy Research, Innovation and Training
Admin Building, ALTTC Campus, Govt. of India Enclave, Ghaziabad–201002**

REQUEST FOR PROPOSAL (RFP)

FOR

**Imparting six (6) months Hybrid (In Campus + On line) Comprehensive Training in
“ Network & Mobile Security” domain under Competency Development Programme
(CDP)**

is invited from

ELIGIBLE INSTITUTES

(Download document from <https://gem.gov.in/>)

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SECTION-I**Government of India****Ministry of Communications****Department of Telecommunications****National Telecommunications Institute for Policy Research, Innovation and Training****Admin Building, ALTTC Campus, Govt. of India Enclave, Ghaziabad–201002****NOTICE INVITING REQUEST FOR PROPOSAL (RFP)****FOR****Imparting six (6) months Hybrid (In Campus + On line) Comprehensive Training in “ Network & Mobile Security” domain under Competency Development Programme (CDP)****Tender No.: DOT/NTI/IKR/130/510/02/****Dated: 25.09.2023**

E-bids against Request for Proposal (RFP) under *single stage* two bid system are invited by DG (NTIPRIT), on behalf of President of India, from reputed and Eligible institutes for Imparting six (6) months Hybrid (In Campus + On line) Comprehensive Training in “ Network & Mobile Security” domain under Competency Development Programme (CDP)

The RFP document is available on website <https://gem.gov.in/>. The intending bidders may download the e-tender document from the above mentioned website. The interested bidders may submit the bids online at <https://gem.gov.in/> in two bids systems {i.e. (i) Technical Bid and (ii) Financial Bid} in the prescribed proforma. Bids are to be submitted only online through GeM portal <https://gem.gov.in/>. All the documents in support of bid are also to be *signed*, scanned and uploaded along with the **signed** RFP document. Bid sent by any other mode will not be accepted.

The bidder shall upload the e-bids. **However original 'Pre-Bid/ Pre-Contract Integrity Pact' & Demand Drafts/ Banker's Cheque/ Bank Guarantee in respect of EMD** drawn in any Scheduled Bank in Delhi, in favor of Accounts Officer (Cash) TEC, New Delhi; **is required to be submitted physically to ADG(A&MM),NTIPRIT**, Room no. 719, Admin Building, ALTTC Campus, Government of India Enclave, Raj Nagar, Ghaziabad (U.P.)-201002 **before Bid end date & time. E-Bid without physical submission of EMD and Pre-Bid/ Pre-Contract Integrity Pact' in the prescribed formats will not be accepted.**

ADG (A&MM)
NTIPRIT, Ghaziabad

Disclaimer

The information contained in this Request for Proposal (RFP) document or subsequently provided to the bidding Institution, whether verbally or in documentary form by or on behalf of NTIPRIT or any of its employees, is provided to the bidding Institution on the terms and conditions set out in this RFP document and any other terms and conditions subject to which such information is provided. This RFP document is not an offer or invitation to any other party.

The purpose of this RFP document is to provide the bidding Institution, to whom it is issued, with information to assist the formulation of their Proposal submission. This RFP document does not purport to contain all the information each bidding Institution may require. NTIPRIT and their employees and/or advisors make no representation or warranty and shall incur no liability under the Law of Contract, Tort, the Principles of Restitution or unjust enrichment or otherwise for any loss, expense or damage, which may arise from or be incurred or suffered in connection with anything contained in this RFP document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP document and any assessment, assumption, statement or information contained therein or any matter deemed to form part of this RFP document, the award of the work and any other information supplied by or on behalf of NTIPRIT or their employees, advisors or otherwise arising in any way from the selection process for the work. NTIPRIT may in its absolute discretion, but without being under any obligation to do so, amend or supplement the information in this RFP document. The information that NTIPRIT is in a position to furnish is limited to this RFP document. This RFP document and the information contained herein are confidential and for use only by the person to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than, in confidence to the recipient's professional advisor). In the event that the recipient does not continue with the involvement in the work in accordance with this RFP document, the information contained in the RFP document shall not be divulged to any other party. The information contained in the RFP document must be kept confidential. Mere submission of a responsive Proposal does not ensure selection of the bidding Institution. The NTIPRIT reserves the right to reject all or any of the Proposals without assigning any reason whatsoever. The NTIPRIT reserves all the rights to cancel, terminate, change or modify this selection process and /or requirements of bidding stated in the RFP document, at anytime without assigning any reason or providing any notice and without accepting any liability for the same.

SECTION-II

RFP For Imparting six (6) months Hybrid (In Campus + On line) Comprehensive Training in “ Network & Mobile Security” domain under Competency Development Programme (CDP)

The National Telecommunications Institute for Policy Research, Innovations & Training (NTIPRIT) is a premier training institute of the Department of Telecommunications, Govt. of India. The NTIPRIT is a Central Training Institute (CTI) enlisted with DoPT and administers, inter-alia, the two-year Induction Training curriculum as well as in-service training to the Indian Telecom Service (ITS) Group-A Officers recruited through UPSC Engineering Service Examination.

NTIPRIT also conducts Mid Carrier Training program of junior, middle and senior management level officers to keep them abreast with the latest development in Telecom Technologies and related challenges arising in the area of Telecom. licensing, monitoring and enforcement. NTIPRIT regularly organizes in-service trainings, workshops, conference etc. for serving Group ‘A’ and Group ‘B’ officers on contemporary needs. NTIPRIT also undertakes courses in advanced ICT & Telecom. technology areas such as 5G and its applications, AI, Block chain, IoT and Green Energy, etc. Specialized courses on ICT in Disaster Management and Cyber & Telecom Network Security are also conducted by NTIPRIT not only for DoT officers but also for the officers of Central Government, State Governments and other stake holders in Digital Communication space.

As apex training institution of the country in Telecom domain and a premium telecom training institution in the Asia Pacific region, NTIPRIT also shoulders its responsibility of capacity building for developing countries by conducting several courses under India Trade and Economic Cooperation (ITEC) Programme of Ministry of External Affairs (MEA), Govt. of India. Variety of courses in ICT and advance Telecom technologies for APT and ASEAN member states have also been conducted by NTIPRIT. Participants of more than fifty (50) countries across the globe have been trained by NTIPRIT through these International training courses.

- (i) It has been felt that there is a need for continuous in-house capacity building, with focused and coordinated efforts in order to address the challenges of new technologies and services against regulatory and security concerns, along with

driving the ICT sector towards effective participation in the implementation of various Government schemes.

- (ii) For capacity building of DoT officers in Emerging Technology areas, a Competency Development Program (CDP) has been conceived wherein through a long duration specially designed training intervention divided in three phases, a batch of 30 officers will be groomed as Expert in specific domain such as “Network & Mobile Security”.
- (iii) Along with improving the technical skill set of officers, CDP also envisages to combining it with efficacy of strategic decision making for all round development in art of policy making.
- (iv) The training under this program is aimed to help the officers of Department of Telecommunications to get an in depth understanding of “Network and Mobile Security”. The program aims to ensure that the officers trained are imparted with not only the technical and theoretical framework but also get a thorough hands-on training and acquire the ability to implement the same. It is also expected to prepare the officers to handle and tackle most sophisticated and complicated attack scenarios including Advanced Persistent Threats from hostile states and threats to critical infrastructure across the nation. The program should be tailor made as per the requirement laid out by NTIPRIT for the officers of Department of Telecommunication. The program also includes periodic assessments and debriefs after every module. An overall assessment would also be done at the end of the six-month program to assess the impact of the program.

2. PURPOSE OF RFP & BROAD SCOPE OF WORK

The purpose of this RFP is to select a reputed Institution for conducting a 6 month comprehensive training program on “Network & Mobile Security” for Telecom officers.

The bidding institute must have capabilities to conduct comprehensive in-depth training in the below given areas **in collaboration with one or multiple internationally reputed Cyber Security Training companies / firms / institutions**, but with sole responsibility of conducting the same with necessary quality and end to end delivery. It is expected that **at least 30% to 40% of the topics proposed, must be covered by one or multiple partner Cyber Security Training companies / firms/ institutions of international repute**. More emphasis should be

given to Hands On training. It is expected that **at least 30% duration of training will be hands on training**. The areas where in-depth training is required are as follows:

1. System fundamentals, OS, Databases, Cryptography and Programming
2. Telecommunications Network and Mobile Security
3. Computer and Network Security
4. Internet and Web Application Security
5. End Point, Mobile Device and Cloud Security
6. Malware Analysis
7. Cyber Forensics
8. Vulnerability Assessment and Penetration Testing
9. Hardware Security, SCADA and IoT Security
10. Dark Web, OSINT and Blockchain
11. Phishing and Email Security
12. Security and Risk Management
13. Data Privacy and Cyber Laws
14. Capture the Flag, and Real World Attack Defense exercises.

The institute must submit a detailed description of the topics that will be covered in each of these areas including the split of theory & Lab session, proposed to be covered separately by the bidding institute and by the partners. Details are required for the Consultancy Evaluation Committee (CEC) to evaluate the proposal with respect to the comprehensiveness, quality and depth of the technical knowledge & skills imparted during training. A detailed description of the budget that will be required for hosting the training must be submitted. The officials stay related expenses should be however excluded.

3. Brief details of the training programme and the requirements are as under:

- a. Profile of Officers:** The Indian Telecom Service (ITS) Group-A Officers are engineering graduates/post-graduates with rich job experience. They join the Department of Telecom after selection through the Engineering Services Examination conducted by UPSC. Upon joining, the ITS officer undergoes two years probationary training including Foundation Course. The ITS officers are posted in various units under Department of Telecommunications and its PSUs. ITS officers are also deputed to other Government Organizations such as various Central/State Ministries, TRAI, TDSAT,

CVC, UPSC etc. The core work in these units relates to Telecom Licensing, Regulation, Telecom Policy formulation & Implementation, Enforcement of Licensing and Regulatory norms, Network Security and managing Security Monitoring, Training, Telecom Network Operations & Maintenance, Telecom Network Planning, Telecom Management, Telecom dispute settlement, Vigilance, Organization specific works etc.

Name, and designation of all the 30 officers, selected through an internal screening process for the CDP in “Network & Mobile Security” domain is attached at Annexure XIV. These officers have already been imparted two phases of training. Phase I was a one week on line course from IIT Kanpur and the Phase II was a four week specially designed hands on training program conducted by C-DAC, Pune. Details of the course content of Phase I & Phase II training undergone by the batch of selected officers is attached at **Annexure XV**. Course content covered in Phase I & Phase II trainings are being indicated only for information purposes, but it does not mean that these topics cannot be covered in depth again in Phase III training.

b. Following *activities* are included in the scope of conduction of Competence Development Programme in “Network & Mobile Security” domain:

- i) The detailed framework and scope of training for DoT officers is given in **Annexure-I**.
- ii) The topics proposed to be covered during the training programme are given in **Annexure-II**.
- iii) Based on the detailed contents of the course, given in **Annexure-II**, the selected Institute shall prepare the week-wise timetable.
- iv) An intensive tailor-made training program on Network & Mobile Security for 30 participants has to be conducted to equip the officers to effectively handle the Telecom Security Policy Planning, Telecom Security operations, investigation and audit viz. Web/Mobile/ Application, Network infrastructure.
- v) The bidder must provide cyber range platform for participants to practice hands on exercises for at least six months after the course. Documentary proof for the same to be furnished.
- vi) The bidder must be able to provide continuous learning platforms for the trained professionals to stay up to date with cutting-edge technologies through world-class practical courses and videos that span every topic in cyber security and

beyond.

- vii) The bidder must provide Learning Management System with integrated virtual labs in the domain of cyber security.
- viii) The bidder should provide cyber range for conduction of attack defence simulation. Cyber Range capability to be made available.
- ix) The bidder should have proven expertise of conducting large scale Capture the Flag (CTF).
- x) The bidder should have ability to train using threat intelligence platform e.g. honey pots, decoys etc. Platform capability to be made available.
- xi) For the physical as well as on line training, five days a week pattern is to be followed.
- xii) The programme would include theoretical inputs as well as practical experiences.
- xiii) The Officers should be exposed to the best practices, both in the form of classroom sessions and exposure tours/ field visits.
- xiv) The medium of instruction during training programme shall be English.
- xv) During the training, the officers shall be observed for their grasp of the content.
- xvi) Training Kit/ bag with folder, writing pad, pen etc./ Reading material/ printed handouts on relevant topics must be provided to the Officers, for study and revision purpose.
- xvii) New Portable IT device of appropriate configuration (Minimum i7 with 16 GB RAM & 1TB SSD and Windows 11) capable of conducting penetration test, simulation exercises such as configuring VMs, containers etc will be provided to every individual participants at the beginning of the training, which will be retained by these officers for further learning beyond this training. Cost for the same may be included in the package cost of training. Specification of the device proposed to be given must be furnished in the Technical bid.
- xviii) The Officers must have free access to academic amenities like Library/ Reading room/ Computers/ Internet Labs in the campus.
- xix) To monitor and assess the quality of the training being imparted, NTIPRIT *may* depute officer as observer during the training programme conducted at the selected Indian institute. The observations/suggestions of the observer for improvement in quality of training and other matters related to transportation

facilities etc. shall be sent to selected institution through nodal officer of NTIPRIT for consideration & implementation by the institution as far as possible. The observer shall be free to attend various training sessions/field visits as per his choice during the conduction of the training programme.

- xx) Officers under training will bear the cost of boarding and lodging, as per their entitlement. They will stay in nearby Hotel or in Institute Hostel, as per suitability and availability. Working Lunch may be provided by the institute in Hostel Mess. However, the selected institute may assist officers in deciding hotel of proper quality as per DA eligibility of individual officers, nearby the institute. Transportation arrangement for daily pick up and drop will have to be arranged by the Institution, if the hotel is more than 500 meters away from the institute. Lump-sum cost of transportation may be included in Package cost of Training.
- xxi) It may be ensured that all the topics are covered within the given time in a comprehensive manner. Slots for the training should be arranged in such a way that adequate time is available for covering all the topics and clearing doubt/discussion.
- xxii) **An estimated 70% content to be delivered in physical mode** by the faculties from selected institutions & partner firm/ institutes and domain experts from across various leading organizations chosen by the selected institute as per the needs of the program. **30% contents can be covered through live instructor led online lectures** from experts. Approximately 6 to 8 weeks of the training modules can be proposed in ONLINE mode interspersed in whole duration of 6 months. During on line training module, officers will stay in their home.
- xxiii) **Evaluation:** Evaluation of 1 hour every week that checks practical/theoretical understanding taken throughout the week with a grading for every subtopic. Selected Institution or its partner institution will conduct the exams and evaluations every week and submit the progress report to NTIPRIT.
- xxiv) The bidding institute must have collaboration with one or multiple internationally reputed Cyber Security Training companies / institutions, but with sole responsibility of maintaining necessary training quality & standard with end to end delivery. **At least 30 to 40% of the topics proposed, must be**

covered by one or multiple partner Cyber Security Training companies /firms/ institutions of international repute.

- xxv) **Certificates:** Selected Institute will provide a certificate at the end of the program and grades received by the candidates in each subtopic. Additionally as part of the programme, participating officers shall be enrolled in certification of at least one International level competency such as; CEH/CHFI/CTIA/CISSP/CISA/CISSP/Any certification aligned to NICE framework USA for Analyze/Collect & Operate/Investigate/Oversee & Govern/Protect & Defend.

Conducting appropriate training to clear some of these internationally reputed third party certifications proposed by the bidding institution and cost of appearing one time in these exam will be the responsibility of the selected institute. However passing the exam is the responsibility of the DoT Officer. While designing the complete program of 6 months, care should be taken that the program time-table is structured in such a manner that its contents are relevant and sufficient to enable the officers to clear the proposed International Certification also in addition to complete value addition for the 6 month of training. Cost of one time examination fee for the third party certifications, as proposed by the bidding institution, may be included in the Package Training cost.

- c. **Topics to be covered:** The topics proposed to be covered during the training programme are given in **Annexure-II**.
- d. **Venue:** The Physical Component of training will primarily be conducted at the campus of the selected Indian institute. However, few modules proposed to be conducted by their partner institution for partial duration, can be conducted at other location.
- e. **Batch size:** Batch size shall be of 30 Officers. Work orders with relevant details shall be issued by NTIPRIT well in advance to the selected institution.
- f. **Timeframe:** The contract of conducting Training Programme shall be valid for duration of one year from the date of signing of the agreement, but may be extended further by one year at the same rates and terms & conditions upon mutual agreement between NTIPRIT, Ghaziabad and the selected Institution. The Training course is expected to

commence within two months from the date of signing of the contract or agreement (draft enclosed as **Annexure-VI**) between NTIPRIT, Ghaziabad and the selected institution.

- g. Schedule of Requirement:** 6 Months Hybrid (In Campus + On Line) comprehensive in-depth Training for a batch of 30 officers.
- h. Eligibility Criteria:** To be eligible to participate in the process of selection of institute for conducting the proposed 6 months long in-depth training on “Network & Mobile Security”, the participating Indian institute is required to meet the following criterions:
- (i) Academic institute within top 50 rank as per NIRF 2022 ranking for Engineering or Indian Institute of Technology (IITs)
 - (ii) The Institute should have conducted at least two training programmes of one week or more duration on Cyber / Network / Mobile Security or on related subject for any Govt. / Defence organization / PSU / Enterprise during the last five years (i.e. since 01.04.2018 till date of bid submission).

Or

- The Institute should have conducted at least one long term Training programme on Cyber / Network / Mobile Security or on related subject of 4 weeks or more duration for any Govt. / Defense organization / PSU / Enterprise during the last five years (i.e. since 01.04.2018 till date of bid submission) .
- (iii) The institution must have proven expertise in the domain that must be visible from projects and training done in the area of Network / Mobile / Cyber Security. Projects of more than INR 2 crores in the area of Training / Research and Development in Network / Mobile / Cyber Security domain must be in progress or completed by the institution cumulatively in last 5 years (i.e. since 01.04.2018 till date of bid submission).
 - (iv) The institute must be able to provide this training primarily in their own campus. The institution must provide access to classrooms/conference rooms and cyber security labs and infrastructure 24*7 to the officials for necessary practical and theoretical understanding of the domain of Network / Mobile / Cyber Security. Institute must have its own hardware and software Infrastructure for carrying out cyber security exercises.
 - (v) The institute must have academic and industrial collaboration / tie ups with one or multiple internationally reputed Cyber Security Training companies / firms/ institutions, for delivering quality training. Documentary proof for the

collaboration / tie ups must be furnished.

- (vi) Institute must be able to train individual participants and facilitate exams for obtaining certification of at least one International level competency CEH/CHFI/CTIA/CISSP/CISA/CISSP/Any certification aligned to NICE framework USA for Analyze/Collect & Operate/Investigate/Oversee & Govern/Protect & Defend. A detailed description of certifications for which the officials will be prepared during the comprehensive training and whose exams will be conducted during the training must be submitted as part of the proposal.
 - (vii) The trainers/faculty shall possess necessary and sufficient domain expertise with extensive practical knowledge supported by relevant certifications with minimum of 3 years' experience in relevant area. Documentary proof to be made available. The Institute should be in a position to get external resource persons of eminence in specific areas from outside.
 - (viii) Institute must have existing Post Graduate / M.Tech programs and / or Research programs that are specifically in the area of Cyber Security or Information Security or related field.
4. The willing Indian institutes may submit the **comprehensive proposal** accordingly. The proposal must be submitted in two parts namely '**Technical bid**' and '**Financial bid**'. Bids are to be submitted only online through the GeM portal <https://gem.gov.in/>. All the documents in support of bid are also to be signed, scanned and uploaded in *PDF format* along with scanned copy of Demand Draft/ Banker's Cheque/ FD/ BG for Earnest Money Deposit. **However, original Pre-Bid/ Pre- Contract Integrity Pact, Demand Drafts/ Banker's Cheque/ BG/FD in respect of EMD, shall be submitted physically to ADG (A&MM), NTIPRIT, Room no. 719, Admin Building, ALTTC Campus, Ghaziabad (U.P.) before Bid end date & time.** The purchaser reserves the right to seek actual documents for any uploaded documents during evaluation of the e-bid.
- (i) The 'Technical bid' must include the following documents/ information as per the format given in **Annexure-III**:
 - a. Name, address and Contact details of the Institute.
 - b. Introduction of the Institute with relevant details like brief history, areas of

- strength, types of training programmes conducted in last three years with broad subject areas, availability of competent faculty, brief about source of expert/eminent/guest faculty etc. and supporting documents for eligibility conditions as indicated in para 3(h).
- c. NIRF Ranking of the Institute (attach relevant details/*documents*)
 - d. Experience of conducting Cyber Security Training Programme for Govt. / Defence /PSUs / Enterprises during the past five years as stipulated in Para 3h (ii). Supporting documents like work order/letter from sponsoring organisation for conduction of the course and training completion order are to be provided as proof of experience.

And/or

- Experience of conducting long term (more than 4 weeks) training programme for Central government officers /Defense /PSUs / Large Enterprises during the past five years as stipulated in Para 3 h (ii). Supporting documents like work order/letter from sponsoring organization for conduction of the course and training completion order are to be provided as proof of experience.
- e. Documents in support of Executed and / or on-going Projects of more than INR 2 crores in the area of Training / Research and Development in Cyber Security domain in last 5 years as stipulated in Para 3 h (iii).
 - f. Details of Academic & industrial collaboration/ tie ups for imparting quality training as stipulated in Para 3 h (v). Documentary proof for the collaboration/ tie ups must be furnished.
 - g. Details of international certification for which officers will be prepared during the training and whose exams will be conducted during the training. Relevant documents must be submitted.
 - h. Details of Institute's hardware and software Infrastructure for carrying out cyber security exercises. Relevant documents must be submitted.
 - i. Year of starting Post Graduate / M.Tech programs and / or Research programs that are specifically in the area of Cyber Security or Information Security or related field by the institute along with supporting document as stipulated in Para 3 h (viii).
 - j. Name and contact details of proposed course coordinator(s).
 - k. Documents in support of strong track record in conducting training programmes, in the areas of Cyber / Network / Mobile Security and related subjects.
 - l. Details of qualified and experienced faculty (with minimum 3 years of experience) well-versed in the respective subject areas as stipulated in Para 3 h

- (vii). Details of external resource persons of eminence proposed for imparting training. Brief CV of faculty and external experts may be attached.
 - m. Proposed structure of the Training Program offered in Physical as well as On line mode including the tentative slots and duration thereof.
 - n. Any other specific information / credentials / supporting documents.
 - o. Scanned copy of Demand Draft/ Banker's Cheque/ BG/ FD from Scheduled Bank of India for the prescribed amount of earnest money deposit.
 - p. *Authorization letter* for signing the bid document(s) in the form of duly attested Board Resolution/Power of Attorney or letter of authorization duly signed by all members of governing body / Head of Institute on the letter head of the institute, as applicable.
 - q. Copy of the duly executed Pre-Bid/ Pre-Contract Integrity Pact as per **Annexure-V**.
 - r. Duly filled and signed Profile of bidder as per **Annexure VII**.
 - s. No near relative Certificate/Declaration as per **Annexure-VIII**.
 - t. Self-Certificate for not being black listed/debarred from participation in tender process by any office of the central government as per proforma in **Annexure-IX**
 - u. Duly filled Bid Form as per **Annexure XII**.
 - v. Technical proposal consisting of all Sections and Annexures, subsequent amendments/clarifications if any, duly filled and signed by the authorised signatory of the bidder but without indicating the price.
 - w. Presentation on the technical proposal and any other specific information / credentials /supporting documents required for technical qualification of the bidder.
 - x. Each document submitted as part of technical proposal must bear the signature and stamp of the bidder or authorized representatives.
- (ii) The 'Financial bid' must include the following documents/ information and submitted as per format given in **Annexure-IV**.
- a. The bidder shall quote the prices/rates (in Indian Rs. only) online as specified in the format given at Annexure-IV.
 - b. The overall financial quote of the training programme in INR should be inclusive of all applicable fees, charges including examination fee for 3rd party certification, miscellaneous expenditure etc., for training, in the proforma given in **Annexure-IV**.

- c. The financial quote of the training programme shall be fixed for the entire agreement period, irrespective of any reasons like variations in the exchange rate etc.
- d. At present, as per Department of Expenditure Notification No. 12/2012-Central Tax (Rate), dated 28.06.2017 (Sl. 72), No Central tax including GST is levied on services provided to the central government under any training programme for which total expenditure is borne by the Central Government. However, in future if the GST or any other Tax, if becomes applicable shall be paid by NTIPRIT as per the actual rate prevailing at the time of billing.

(iii) SUBMISSION OF BIDS:

- a. RFP documents may be downloaded from GeM portal <https://gem.gov.in/> . Aspiring Bidders who have not enrolled/registered in GeM portal should enroll/register before participating through the website <https://gem.gov.in/> . The portal enrolment is free of cost. Bidders are advised to go through instructions on the GeM Portal regarding registration and online bid submission.
- b. Bids and supporting documents must be uploaded through GeM portal. Hard copy of the bid will not be accepted.
- c. The willing institutions may submit/upload financial bid for the training program. The work shall be awarded to the successful bidder as per evaluation criteria.
- d. The bidders shall upload their bids (Technical and Financial) online at GeM portal <https://gem.gov.in/>, in response to the e-tender published by the department. Bid submission can be done from the date of publishing this RFP till the Bid end date & time.
- e. **Pre-Bid/ Pre-Contract Integrity Pact, payments for EMD must be received by the Purchaser at the address “ADG(A & MM), NTIPRIT, Room no. 719, Administrative Building, ALTTC Campus, Government of India Enclave, Rajnagar, Ghaziabad(U.P.)-201002” not later than the before Bid end date & time. In case, the last date of submission of bids is declared as central government holiday in Ghaziabad, the original EMD will be accepted on the next working day till the same time and the Technical Bid will be opened on the said working day at the scheduled time.**
- f. The bidders should start the bid submission process well in advance so that they can submit their e-bid in time. The bidder should submit their e-bid considering

- the server time displayed in the GeM portal. This server time is the time by which the e-bid submission activity will be allowed till the permissible time on the last/end date of submission.
- g. Once the e-bid submission date and time is over, the bidders cannot submit their e bid.
 - h. The Purchaser shall not be responsible for delay in submission of e-bid due to any reasons. No other mode of submitting the bid except the online method shall be entertained.
 - i. The Purchaser shall not be responsible if the bids are uploaded in any other portal than the one specified.
 - j. The Purchaser may, at its discretion extend this deadline for the submission of the bids by amending the tender document in which case all rights and obligations of the Purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
 - k. Not more than one bid shall be permitted from a single bidder otherwise all the bids submitted by such bidder shall be summarily rejected.

(iv) LATE BID:

The server time indicated in the GeM Portal (<https://gem.gov.in/>) will be the time by which the e-bid submission activity will be allowed until the permissible date and time scheduled in the e-tender. Once the e-bid submission date and time is over, the bidder cannot upload the bid.

(v) MODIFICATION AND WITHDRAWAL OF BIDS:

The bidder may modify, withdraw or re-submit its e-bid online only, before the bid submission date and time as per provisions available in GeM Portal.

(vi) COST OF BIDDING:

The bidder shall bear all costs associated with the preparation and submission of the bid. The Purchaser, will in no case, be responsible or liable for any costs, regardless of the conduct or outcome of the bidding process.

(vii) VALIDITY OF BIDS:

The prices quoted in the bid shall remain valid for acceptance for 180 days from the date of opening.

(viii) EARNEST MONEY DEPOSIT (EMD):

Earnest Money Deposit (non-interest bearing) shall be furnished with the bid by way of demand draft or banker's cheque drawn **in favour of "AO(Cash),TEC"** payable at

New Delhi or by way of bank's guarantee (as per **Annexure X**) from any of the scheduled bank as per details given below:-

- **EMD of Rs. 5 Lakh**

Failure to furnish EMD shall result in rejection of the bid summarily. The EMD is to remain valid for a period of forty-five days beyond the bid validity period defined in sub-para 4 (vii) above.

(ix) The EMD shall stand forfeited if:

- a. The bidder withdraws its offer before expiry of validity period of bid i.e. 180 days from date of opening period.
- b. The successful bidder, whose tender is accepted, fails or refuses to furnish the Performance Security amount within a month's time from date of issue of formal letter of work award (or letter conveying acceptance of bidder's offer), or fails or refuses to execute the contract.

(x) Refund of EMD:

The EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. For successful bidder, it shall be refunded only after the receipt of the prescribed Performance Security.

(xi) PERFORMANCE SECURITY:

- a. The successful bidder shall furnish running Performance Security, valid for the entire contract period to NTIPRIT, Ghaziabad for an amount equal to 3% of the work order value for the batch (batch size of 30 participants) within a fortnight from the date of issue of formal letter of work award (or letter conveying acceptance of bidder's offer) by NTIPRIT, Ghaziabad.
- b. The proceeds of the performance security shall be payable to NTIPRIT, Ghaziabad as compensation for any loss resulting from the successful bidder's failure to complete its obligations under the contract or agreement.
- c. The Performance Security shall be deposited in the form of demand draft drawn in favour of AO (Cash), TEC payable at New Delhi or a Bank Guarantee issued by a commercial bank in the draft Proforma provided at **Annexure-X**.
- d. NTIPRIT, Ghaziabad will discharge the Performance Security after deducting the pending dues, liquidated damages, if any, after completion of the successful bidder's performance obligations under the contract or agreement.
- e. No interest shall be paid on the Performance Security.

5. BID OPENING, EVALUATION AND SELECTION CRITERIA:

5.1. Technical Bid Opening:

- a) The purchaser shall open Technical bids online on the scheduled date and time as given in Section-I of this document. Bids of only those bidders will be opened who has submitted EMD amount & pre bid / pre- contract integrity pact in original copy before bid opening date & time. Bidder may check portal for status of tender opening, online.
- b) The date fixed for opening of bids, if subsequently declared as central government holiday in Ghaziabad, the revised date of schedule will be notified. However, in absence of such notification, the bids will be opened on the next working day at the same time.
- c) To assist in the examination, evaluation and comparison of bids, the purchaser may, at its discretion, seek clarification/ document(s) of its bid from the bidder. Only the information furnished, by the bidder, shall be considered in future evaluation. However, no post-bid clarification at the initiative of any bidder shall be entertained.

5.2 Technical Bid Evaluation:

- a) The bids of only those bidders shall be considered for Technical evaluation, who are found to be eligible as per para '3 (h)' of Section-II of this document and who have submitted the original ink signed 'Pre-Bid/ Pre-Contract Integrity Pact', on a stamp paper of ₹100/-, as per Annexure-V, along with their bids. The authority to sign the Pact on behalf of purchaser is **ADG (A&MM), NTIPRIT, Admin Building, ALTTC Campus, Government of India Enclave, Rajnagar, Ghaziabad (U.P.)-201002**. The person signing the 'Pre-Bid/ Pre-Contract Integrity Pact' should have authorization letter for signing the bid document as per clauses 4.(i)(p) of this section.
- b) The bids will be evaluated technically to determine whether they are complete, whether documents have been properly submitted, and whether bids are generally in order and qualify for opening and evaluation of financial bid.
- c) Bid shall be considered substantially responsive if it conforms to the terms and conditions without any material deviation.
- d) The purchaser or his authorized representatives shall have the right to inspect the institute etc. of the bidder, for verification of facts furnished by the bidder in support of his bid documents, and the bidder is bound to answer any query made by the purchaser.
- e) All the bidders shall be required to make a presentation of around 30 minutes on the

technical proposal before the Consultancy Evaluation Committee (CEC) on a given date decided by the committee and intimated to eligible bidders at least 3 days in advance. The same or similar presentation shall be submitted in electronic form at the time of submission of bids through GeM portal. The presentation will be part of evaluation and the CEC will award marks out of 30.

- f) The Financial bids will be opened for only those bidders who have obtained at least 70 % or more, in aggregate, on the Technical parameters as below:

Sl. No	Criteria for assessment	Maximum marks	Qualifying marks
1	Overall program design with time table and availability of Security Labs with bidding institute & also partnering institutions	20	
2	Quality of Partner institutions & international certifications proposed	20	

3	Experience in: (a) delivering similar Training Programmes for Govt. / Defence / PSUs / Enterprises (b) Cyber Security Projects executed or under execution	20	70
4	Suggested faculties (including that of partnering institutions) and visiting / guest Faculties as per CV attached.	10	
5	Presentation on Technical proposal	30	
Total		100	

The following criteria shall be followed while evaluating/assessing/scoring the above: -

- (i) Overall program design with time table and availability of Security Labs with bidding institute & also partnering institutions:

Sl. No	Criteria for assessment	Maximum marks
1.	Relevance of the content/ Demonstrated understanding of the requirements	10
2.	Availability of well-equipped Labs of Cyber / Network / Mobile Security with the institute and partnering institution	10

- (ii) Quality of Partner institutions & international certifications proposed:

1.	Quality and repute of partnering institutions	10
2.	Number & Quality of 3 rd party international certifications proposed	10

(iii) Experience in delivering similar Training programmes / Projects execution for Govt. / Defence / PSUs / Large Enterprises in Network / Cyber / Mobile Security domain :

Sl. No	Criteria for assessment	Maximum marks
1.	Number of similar Training Programmes conducted and total value of the Projects executed in Network /Cyber / Mobile Security domain in last 5 years (i.e. since 01.04.2018 till date of bid submission).	20

(iv) Suggested faculties:

Sl. No	Criteria for assessment	Maximum marks
1.	Technical Knowledge specific to the course content/papers published in Area of expertise and experience	5
2.	Educational and formal credentials	5

(g) Technical Proposal: - The technical proposal submitted with the bid must contain the following details:-

- (i) A brief synopsis of the institution's history and its track record in delivering similar or relevant Training programmes. Institutions must satisfy the eligibility criteria laid down in the RFP and attach necessary documentary evidence, including end-of-course evaluation of similar programmes conducted in the last *five* years, in this regard. The bidders will be specifically required to append a list of relevant programmes (conducted during the last three years) being cited by them for evaluation.
- (ii) A broad programme design covering the thematic inputs for the indicated items of the RFP document should be submitted in the proposal. The selected Institution may make changes in the suggested inputs but it must clearly state the reasons for making these changes in the programme design.

- (iii) The programme design must be accompanied by a detailed teaching timetable for the duration of the module indicating the title and duration of the session and the suggested faculty to cover the input.
- (iv) A brief background of the key faculty members of the selected Institution and partnering institution, both internal and guest, that would be delivering the lecture / hands on session must be clearly indicated in the Proposal. The suggested faculty members must be reputed and experienced in their expertise area. In case, the applicant institute has a system of recording feedback of performance of the faculty, the proposal should include a brief of performance feedback of the proposed Faculty.

5.3 Financial Bid Opening/Financial Evaluations:

- a) The purchaser shall shortlist only those bidders who are eligible and have obtained at least 70% or more in technical evaluation. Successful bidders would be intimated regarding opening of financial bids. The date, time and venue of opening of financial bid of the technically shortlisted bidders will be intimated by displaying the same on the Gem Portal <https://gem.gov.in/> only.
- b) The Financial Bids of technically unsuccessful bidders would not be opened.
- c) Prices quoted in the Financial Quote (Annexure-IV) only will be considered for evaluation.

5.4 Evaluation of Proposal and selection criteria

- (a) The Technical bids uploaded would be screened on the prescribed eligibility criteria as given in para '3 (h)' of this document along with details provided in Annexure-III. Financial bids of the institutes shortlisted after examination of the Technical bids shall thereafter be opened online on the scheduled date and time for further evaluation. The financial bids of the institutes, who do not qualify the technical evaluation, will not be opened for evaluation.
- (b) A Consultancy Evaluation Committee (CEC) will be constituted to evaluate the proposal received from the interested institutions based on the following criteria:

Sl. No	Criteria for assessment	Maximum marks
1.	Overall program design with time table and availability of Security Labs with bidding institute & also partnering institutions	20
2.	Quality of Partner institutions & international certifications proposed	20
3.	Experience in delivering similar Training programmes & Research/Project work	20
4.	Suggested faculties as per CV attached	10
5.	Presentation on Technical Proposal	30
6.	Quoted Financial Cost	100
	Total	200

The proposal with the highest weighted combined score (quality and cost) shall be selected.

- c) The proposals as evaluated by the CEC will be placed before the Competent Authority for final selection of the Institution.

5.4.1 Evaluation matrix: -

- (i) **Overall program design with Time table:** The members of the CEC will individually award marks out of 20 for the overall program design with time table. The numerical average of the marks awarded by these members will be taken as the final marks for the purpose of evaluation of the bid as per the table in Para 5.2(f)(i).
- (ii) **Quality of Partner institutions & international certifications proposed:** The members of the CEC will individually award marks out of 20 for the quality of Partner institutions & quality and number of international certifications proposed. The numerical average of the marks awarded by these members will be taken as the final marks for the purpose of evaluation of the bid as per the table in Para 5.2(f)(ii).
- (iii) **Experience in delivering similar Training programmes for Govt. / Defence / PSUs / Enterprises:** This parameter will be a weighted

average of the number of similar programmes organized & value of Projects executed / under execution since 01.04.2018. Pre-bid qualification criteria of “Projects of more than INR 2 crores in the area of Training / Research and Development in Network / Mobile /Cyber Security domain must be in progress or completed by the institution cumulatively in last 5 years” forms part of evaluation.

Illustration: Assuming that three bids have been received as under

Bidder	No. of similar training Programmes (50%)	Total Monetary Value of Research / Project work in Rs. (50%)
A	20	4
B	12	6
C	8	10

Computation of scores: The bidder having conducted the maximum number of programmes and the bidder with highest value of research project will be awarded 100 on this sub- criterion. The other bidders will be allocated marks in proportion to the number of courses conducted and value of research project executed/ongoing by them as calculated in the example hereunder.

For A:

Score for no. of programmes = $20/20 = 100\%$

Score for Value of Research Projects = $4/ 10 = 40\%$

Computation of weighted score= $100 (50\%) + 40 (50\%) = 70/ 100$

Final weighted score out of 20 = $20 \times 0.7 = 14$

For B:

Score for no. of programmes = $12/20 = 60\%$

Score for Value of Research Projects= $6 /10 = 60\%$

Computation of weighted score= $60 (50\%) + 60 (50\%) = 60/ 100$

Final weighted score out of 20 = $20 \times 0.60 = 12$

For C:

Score for no. of programmes = $8/20 = 40\%$

Score for Value of Research Projects= $10/10 =100\%$

Computation of weighted score= $40 (50\%) + 100 (50\%) = 70/ 100$

Final weighted score out of 20 = $20 \times 0.7 = 14$

- (iv) **Suggested Faculty:** The members of the CEC will individually award marks out of 10 for the suggested faculty profile for the programme. The numerical average of the marks awarded by these members will be taken as the final marks for the purpose of evaluation of the bid as per the table in Para 5.2(f)(iv).
- (v) **Presentation on Tehcnical Proposal:** The members of the CEC will award marks out of 30 for presentation by respective bidder. The numerical average of the marks awarded by these members will be taken as the final marks for the purpose of evaluation of the bid.

All Technical criteria evaluated above from (i) to (v) will have 70% weightage in overall marking. Hence, Total marks in Technical criteria will be:

$$X = \text{Sum of marks from (i) to (v)} \times 0.7$$

- (vi) **Quoted Financial Cost:** The financial quote will have 30% weightage in overall marking. The lowest bidder will be awarded 100 marks. The remaining bidders will be awarded in proportion to their financial bids as indicated below:

Illustration: Assuming that three bids have been received as under –

A – 80 Lakhs

B – 60 Lakhs

C – 95 Lakhs

Computation of scores: The bidder having the lowest financial bid will be awarded 100 on this sub-criterion. The other bidders will be allocated marks in proportion to the difference in the financial bids submitted by them as calculated hereunder:

$$\text{Score} = (\text{Lowest Financial Bid} / \text{Financial Bid}) \times 100$$

Here Lowest Financial Bid = 60 Lakhs

Bidder	Score out of 100	Y= Score out of 30
A	$(60/80) \times 100 = 75$	22.5

B	$(60/60) \times 100 = 100$	30
C	$(60/95) \times 100 = 63.15$	18.945

(vii) **Total Score:** The total score out of 100 will be the **sum of X and Y** as detailed from point to (i) to (vi) in this para.

6. Payment Terms & Conditions: After completion of the training of the batch, all course related documents like executed Time Table (duly certified by Programme in charge), course conduction summary, compiled feedback received from participants along with relieving order, leave records etc. shall be provided to NTIPRIT. A programme will be deemed to be delivered satisfactorily if the average feedback collected from participants by NTIPRIT is at least 70% as per the proforma enclosed at **Annexure XIII**.

NTIPRIT shall release the payment on submission of bill by the selected Indian Institute as per following milestones:

- (a) Advance, within 3 weeks of submission of PBG & signing of agreement- 30%.
- (b) After completion of 12 weeks training - 30%.
- (c) After successful completion of entire training and all other obligation under the contract- 40%.

7. Liquidated Damages: The training work must be executed as stipulated in the *Para '3' of the RFP*, failing which liquidated damages @ 0.5 % of payment due for the batch will be levied for each week or part thereof of delay in the work, subject to a maximum liquidated damages of 5 % . Quantum of liquidated damages assessed and levied by the NTIPRIT shall be final and shall not be challengeable by the selected institute. In case of prolonged delays, NTIPRIT may get the work done by a third party and such cost of training works shall have to be borne by the institute, in addition to the Liquidated Damages. If the services remain perpetually unsatisfactory despite being given a chance to improve in this regard, NTIPRIT reserves the right to terminate the agreement at the risk and cost of the selected institute.

8. Arbitration Clause: In the event of any question, dispute or difference arising under this RFP or in connection therewith, except as to matter the decision of which is specifically provided under this RFP, the same shall be referred to sole arbitration of the Secretary, Department of Telecom, or in case his designation has been changed or his office is abolished then in such case to the sole arbitration of the officer for the time being entrusted whether in addition to the functions of the Secretary, Department of Telecom, or by whatever designation such officer(s) maybe called (hereinafter referred to as the said officer) and if the Secretary or the

said officer is unable or unwilling to act as such, to the sole arbitration or some other person appointed by the Secretary or the said officer. The agreement to appoint an arbitrator will be in accordance with the Arbitration and Conciliation Act, 1996 and its subsequent amendment.

There will be no objection to any such appointment that the arbitrator is Government Servant or that he has to deal with the matter to which the RFP relates or that in the course of his duties as Government Servant he has expressed views on any or all of the matter under dispute. The award of the arbitrator shall be final and binding on the parties. In the event of such arbitrator whom the matter is originally referred, being transferred or vacating his office or being unable to act for any reason whatsoever, such Secretary DoT, or the said officer shall appoint another person to act as arbitrator in accordance with terms of the RFP and the person so appointed shall be entitled to proceed from the stage at which it was left out by his predecessors.

The arbitrator, may from time to time with the consent of the parties enlarge the time for making and publishing the award, subject to the Arbitration and Conciliation Act, 1996, and the rules made there under, any modification thereof for the time being in force, shall be deemed to apply to the arbitration proceeding under this clause.

The venue of the arbitration proceeding shall be the office of the Secretary, Department of Telecom, at New Delhi or such other places as the arbitrator may decide.

- 9. Integrity Pact:** The interested institution has to enter into an “Integrity Pact”, as per Ministry of Finance O.M No. 14(12)/2008-E-II (A) dated 19th July 2011, in the format enclosed as **Annexure-V**. The signed & scanned copy of the “Pre-Bid/ Pre-Contract Integrity Pact’ is to be **uploaded** with the technical bid. Original signed copy of the “Pre-Bid/ Pre-Contract Integrity Pact’, shall be submitted in NTIPRIT, Admin Building, ALTTC Campus, Government of India Enclave, Rajnagar, Ghaziabad (U.P.)-201002 before the Bid end date & time. The authority to sign the Pact on behalf of purchaser is ADG (A&MM), NTIPRIT or the officer authorized by the purchaser. The person signing the ‘Pre-Bid/ Pre-Contract Integrity Pact’ should have authorization letter for signing the bid document as per clause 4(i)(p) of this section. The bids of only those bidders shall be considered for Technical evaluation, who have submitted the original ‘Pre-Bid/ Pre-Contract Integrity Pact’, on a stamp paper of ₹100/-, as per Annexure-V, to NTIPRIT before Bid end date & time.
- 10. Legal:** The contracts shall be interpreted in accordance with the law of the Union of India and dispute, if any, will be subject to the jurisdiction of courts in Ghaziabad.
- 11. Nomination of Nodal Officer:** Head of NTIPRIT shall nominate a nodal officer from NTIPRIT side to coordinate with the selected institution on regular basis for smooth delivery of the programmes. Similar arrangement will also be made by the selected institution.

12. CLARIFICATIONS/AMENDMENTS OF RFP DOCUMENT:

- (i) A prospective bidder requiring any clarification on the RFP document shall upload its queries on GeM portal prior to **1800 Hrs of 10.10.2023**.
- (ii) Purchaser shall upload the response to such queries, which are received in due time, generally by 10 days prior to the date of opening of the bids.
- (iii) At any time, prior to the date of submission of bids, Purchaser may, for any reasons whether at its own initiative or in response to a clarification sought by a prospective bidder, modify the RFP document by amendments.
- (iv) The amendments/clarifications, if any, which are uploaded on the portal <https://gem.gov.in/>, shall form an integral part of the RFP document, and shall be binding on all bidders.
- (v) It shall be the sole responsibility of the prospective bidder to check the website <https://gem.gov.in/> from time to time for any amendment in the RFP documents. In case of failure to get the amendments, if any the department shall not be responsible for it. Interested bidders are required to keep abreast of latest corrigendum (s) issued by Purchaser till the date of submission of bid.

13. PRE-BID CONFERENCE:

- (i) A Pre-bid conference shall be held at **1100 Hrs of 10.10.2023** in Online mode whose details of will be intimated through GeM Portal. The queries already received shall, to the extent possible, be clarified in the Pre-bid Conference. The prospective bidders may attend the conference for clarifications on technical specifications and other terms and conditions of the tender document. The queries, verbally raised during the Pre-Bid conference, must be uploaded in the portal by **1800 Hrs of 10.10.2023**. Consolidated replies to the relevant uploaded queries, shall form part of the tender document, and shall be uploaded on the web sites, generally by 10 days prior to the Bid end date & time.
- (ii) For interpretation of any condition(s) of this tender document, the decision of purchaser shall be final and binding on the Prospective Bidder.
- (iii) In order to afford prospective bidders a reasonable time to take the amendment into account in preparing their bids, the purchaser may, at its discretion, extend the deadline for the submission of bids suitably.

14. PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS:

The purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder(s) on the grounds for the purchaser's action.

15. DISQUALIFICATION OF BIDDER:

- (i) Purchaser reserves the right to disqualify the contractor for a suitable period who habitually failed to provide service in time. Further, the contractor who does not perform satisfactorily may also be disqualified for a suitable period as decided by the purchaser.
- (ii) Purchaser reserves the right to blacklist a bidder for a suitable period in case he fails to honor his bid without sufficient grounds.
- (iii) The bidder should give a certificate that none of his/ her near relative is working in the units where he/she is going to apply for the tender, as per Annexure- VIII. None of the near relative of proprietor OR all partners of partnership OR all the Directors of the company excluding Government of India/Financial institution nominees and independent non-Official part time Directors appointed by Govt. of India or the Governor of the state should be working in the unit where the tender is being applied. Due to any breach of these conditions by the company or firm or any other person the tender will be cancelled and Earnest Money Deposit will be forfeited at any stage whenever it is noticed and purchaser will not pay any damage to the company or firm or the concerned person. The company or firm or the person will also be debarred for further participation in the concerned unit.

The near relatives for this purpose are defined as:-

- a. Members of a Hindu undivided family.
- b. They are husband and wife.
- c. The one is related to the other in the manner as father, mother, son(s) & Son's wife (daughter in law), Daughter(s) and daughter's husband (son in law), brother(s) and brother's wife, sister(s) and sister's husband (brother in law).

16. FORCE MAJEURE:

If, at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts or act of God (hereinafter referred to as events) provided notice of happenings of any such eventuality is given by either party to the other within 21 days from the date of

occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non- performance or delay in performance, and deliveries under the contract shall be resumed as soon as practicable after such an event come to an end or cease to exist, and the decision of the Purchaser as to whether the deliveries have been so resumed or not shall be final and conclusive. Further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reasons of any such event for a period exceeding 60 days, either party may, at its option, terminate the contract without any financial repercussion on either side.

Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in this (FORCE MAJEURE) clause.

17. TERMINATION FOR DEFAULT:

17.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this contract in whole or in part

- a. if the Contractor fails to deliver any or all of the goods/services within the time period(s) specified in the contract, or any extension thereof granted by the purchaser pursuant to Clause 16;
- b. if the Contractor fails/delays to perform any other obligation(s) under the Contract; and
- c. if the Contractor, in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as the purchaser may authorize in writing) after receipt of the default notice from the purchaser.

17.2 In the event the purchaser terminates the contract in whole or in part pursuant to Clause 17.1 the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods/services similar to those undelivered and the Contractor shall be liable to the Purchaser for any excess cost for such similar goods/services. However the Contractor shall continue the performance of the contract, to the extent not terminated.

17.3 The purchaser reserves the right to ban a Contractor to quote in further tender enquiries for a specified period, in case he fails to honour his bid/contractual obligations, without sufficient and reasonable grounds.

18. TERMINATION FOR INSOLVENCY:

The Purchaser may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the Contractor, if the Contractor becomes

bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

19. SET OFF:

Any sum of money payable to the contractor (including refundable security deposit) under this contract may be appropriated by the purchaser or any other person or persons contracting through the purchaser and set off the same against any claim of the purchaser or such other person or persons for payment of sum of money arising out of this contract or under any other contract made by the Contractor with purchaser or such other person or persons contracting through the purchaser. Any sum payable by the Department of Telecommunications to the bidder on any account will not be adjusted against any amount receivable by DoT in connection with this contract (e.g. EMD, Performance Security Deposit, Liquidated damages, Penalty etc.)

*ADG (A & MM), NTIPRIT
ALTTC Campus, Ghaziabad-201002 (U.P.)*

ANNEXURE-I

Details of the six (6) months Hybrid (In Campus + On line) Comprehensive Training in “Network & Mobile Security” Training Programme for DOT officers

The framework for six (6) months Hybrid (In Campus + On line) Comprehensive Training in “Network & Mobile Security” domain under Competency Development Programme (CDP) for DoT officers, is as under:

i. Target Participants

ITS Officers of SAG to JTS level

ii. Broad Objectives of Training

(a) Aims and Objectives: The aim of the program is to impart high quality in-depth technical knowledge to the participants in the area of Network & Mobile Security covering major aspects of security technologies, cyber-attacks and counter-measures to adopt. The participants will not only have an in-depth exposure to hardware & software part of the security landscape but will also learn the higher-level administrative controls and policy & decision-making aspects of the security domain. The comprehensive training in Network Security and Policy implementation including Hands-On experience will make the participants intervene at various levels of preventive, defensive, auditing and diagnostic activities in any scenario. From a policy perspective the participants shall be able to design and deploy internationally accepted processes and practices in Network & Cyber Security. The training will be a mix of corporate and academic style of learning where not only the tools and techniques that are used by the attackers to launch attacks will be demonstrated, the learner will also understand how such tools work internally and built from scratch. At the end of the training the participants will be able to manage security services such as firewalls, intrusion detection systems, endpoint solutions as well as will be able to build solutions that they need from scratch. The training will also allow them to think on policy making, standardization and disaster recovery management which is an important aspect of security.

(b) The training program shall be futuristic covering 360 degree coverage of technologies and domains in the field of Network & Mobile security, which are in-demand and industry aligned.

- (c) The training offered should be outcome based and shall be extremely interactive, much similar to the real-life scenario where a professional is judged against some set parameters at every stage. This shall help in honing up skills and communication in a systematic manner and is a recognition engine for meritocracy in the real world.
- (d) The focus on Hands-on projects and applied learning shall be offered from the very beginning. The theory courses shall be augmented by adequate hands-on project and applied work, which will help the participating officers apply the knowledge they gain in classroom.
- (e) The bidder must provide cyber range platform for participants to practice hands on exercises for at least six months after the course. Documentary proof to be made available.
- (f) The bidder must be able to provide continuous learning platforms for the trained professionals to stay up to date with cutting-edge technologies through world-class practical courses and videos that span every topic in cyber security and beyond.
- (g) The bidder must provide Learning Management System with integrated virtual labs in the domain of cyber security.
- (h) The bidder should provide cyber range for conduction of attack defence simulation. Cyber Range capability to be made available.
- (i) The bidder should have proven expertise of conducting large scale CTFs.
- (j) The bidder should have ability to train using threat intelligence platform e.g. honey pots, decoys etc. Platform capability to be made available.

iii. Methodology:

The training course will follow various modern and state of art Training/Teaching methods accepted worldwide e.g. interactive sessions with eminent speakers, group / individual assignments, presentations by participants, theoretical lecture sessions, hands on practice / Lab sessions/ case studies, workshops, exposure/field visits to centre of excellence, etc. Invariably the flow of the training must include:

- Instructor-Led Training
- Distribution of training material in print and soft copy.
- Setting of interactive classroom environment
- Hands on Lab for all the modules taught
- Steps-by steps hands on lab with detailed instruction and guides to enforce the entire key concept.
- Periodic evaluation test for all the modules covered

- Getting feedback of participants for each completed module
- Module wise certification be provided by partnered institution / firm
- Certification of at least one International level competency CEH/CHFI/CTIA/CISSP/CISA/CISSP/Any certification aligned to NICE framework USA for Analyze/Collect & Operate/Investigate/Oversee & Govern/Protect & Defend with the choice of the participating officer.
- One major CTF Project

ANNEXURE-II

- 1. Details of the Topics (indicative list) to be covered during the Training is as under. This is an indicative list and bidding institution may propose their own detail list (which may be slightly different or have additional topics) of topics with duration to fulfill the training objectives. However the list of topics to be covered and duration may be modified, if required and finalized in consultation with NTIPRIT.**

System Fundamentals[60]	Computer Network Security Fundamentals[40]
<p>Introduction to Python and C programming</p> <p>Introduction to OS fundamentals</p> <p>Introduction to Shell Scripting</p> <p>Introduction to web, HTML, Javascript, PHP Database fundamentals and SQL</p> <p>Introduction to Cyber Security concepts</p> <p>Fundamentals of Cryptography</p> <p>Introduction to working on Arduino and Raspberry Pi</p>	<p>Setting up Web, FTP, SMTP servers</p> <p>Overview of TCP/IP protocol stack</p> <p>Networking Commands and Concepts Socket programming and applications Packet Sniffing via PCAP</p> <p>Overview of HTTP, DNS, Email Open source network firewall and IDS</p> <p>Network Attacks and Countermeasures</p>
<p>Penetration Testing [80]</p> <p>Introduction to Penetration Testing</p> <p>Fundamentals Cyberkill chain</p> <p>Footprinting and Information Gathering</p> <p>Vulnerability Scanning</p> <p>Exploits for LAN, Cloud, Wireless Networks Targeting Mobile Devices and IoT</p> <p>Web Application Hacking</p> <p>System Hacking, Remote Code Execution</p> <p>Pentest Automation, Reporting Metasploit, Reverse Shells, SQL Injection Air crack</p>	<p>Internet and Web Application Security [30]</p> <p>Burp Suite and DVWA/BwAPP</p> <p>Understanding Injection Attacks in Depth</p> <p>SSRF and CSRF attacks in detail</p> <p>Web security policies and countermeasures</p> <p>Internet Security Policies</p> <p>DNSSEC, Email Security Policies</p> <p>Understand working of Proxy and VPNs PKI and OPENSLL</p> <p>Browser Extensions and Security Phishing, Email Spoofing Selenium and automation</p>

Ng, Password Cracking Vulnerability Assessment and Patch Management	CTF Exercises
Systems Security/ Cloud Security [60]	Cyber Forensics [80]
Authentication and Access Control in OS Understanding code execution and disassembly Buffer Overflows and Path Injection Reverse Engineering, Ghidra, Olydbg Privilege escalation, password brute force Virus, Malware and Ransomware Windows Registry, Powershell	Introduction to Digital Forensics Digital Crime Scene Management Analysis of Acquired Forensic Images Understanding communication and navigation deviceforensics Cloud Forensics Telecom and Metadata Analysis
Advanced Hosts Exploitation Tactics Introduction to Kali Linux Cloud and Hypervisor Security Automated Orchestration and Resource Management	Evidence review and analysis Forensic reporting and laws Smartphone Forensics, Android File System Smartphone Forensics, Handling IOS Devices
Malware Analysis [40]	Security Management [60]
Malware Fundamentals Introduction to Assembly Language, ELF Files Static and Dynamic analysis of windows executables Process Injection and API Hooking Analyzing malicious documents RTF, PDF Reverse engineering Python, Java, .NET bytecode Understanding malware propagation Secure coding practices	Threat and Vulnerability Management Analyzing security monitoring data SIEM, Logging and SOC Tools Attack Frameworks Incident Response Vulnerability Management Secure Infrastructure deployment, asset management Security Strategy Planning Enterprise Risk Management
Data Privacy, Laws, Ethics and Society	Advanced Topics in Security [50]

<p>[30]</p>	
<p>Data Security and Privacy Frameworks Security Standards and Compliance Cyber Laws Security Compliance Case Studies of Popular Cyber Attacks</p>	<p>Introduction to IoT and SCADA systems Hardware Security SCADA Systems and Security Aspects Security in IOT Dark Web and OSINT Blockchain and Cryptocurrency Concepts Securing ICS Network Hands-On Red Teaming for ICS/SCADA</p>
<p>Visits to Security Companies to experience real life SOC and SIEM deployments in India [20]</p>	<p>Miscellaneous - [60]</p>

ANNEXURE-III**Proforma for Technical bid**

(may be submitted on the letter head of the institute and must include the following documents/ information and to be uploaded on GeM portal only)

- a. Name, address and Contact details of the Institute.
- b. Introduction of the Institute with relevant details like brief history, areas of strength, types of executive training programmes conducted in last three years with broad subject areas, availability of competent faculty, brief about source of expert/ eminent/guest faculty etc. and supporting documents for eligibility conditions as indicated in para 3h(i).
- c. NIRF Ranking of the Institute (attach relevant details/documents)
- d. Experience of conducting Cyber Security Training Programme for Govt. / Defence /PSUs / Large Enterprises during the past five calendar years as stipulated in Para 3 h (ii). Supporting documents like work order/letter from sponsoring organisation for conduction of the course and training completion order are to be provided as proof of experience.

And/or

Experience of conducting long term (more than 4 weeks) training programme for Central government officers/Defence/PSUs /Large Enterprises during the past five years as stipulated in Para 3 h (ii). Supporting documents like work order/letter from sponsoring organization for conduction of the course and training completion order are to be provided as proof of experience.

- e. Documents in support of Executed and / or on-going Projects of more than INR 2 crores in the area of Training / Research and Development in Cyber Security domain in last 5 years.
- f. Details of Institute's hardware and software Infrastructure for carrying out cyber security exercises such as CTFs with supporting document.
- g. Year of starting Post Graduate / M.Tech programs and / or Research programs that are specifically in the area of Cyber Security or Information Security by the institute along with supportive document.
- h. Specifications of proposed ICT device to be given to participants at the beginning of the training, as per clause 3 (b) xvii of section II.
- i. Name and contact details of proposed course coordinator(s).

- j. Documents in support of strong track record in conducting training programmes, in the areas of Cyber / Network / Mobile Security and related subjects.
- k. Details of qualified and experienced faculty well-versed in the respective subject areas. Details of external resource persons of eminence proposed for imparting training.
- l. Proposed structure of the Training Program offered in Physical as well as On line mode including the tentative slots and duration thereof.
- m. Any other specific information / credentials / supporting documents.
- n. Scanned copy of Demand Draft/ Banker's Cheque/ BG/ FD from Scheduled Bank of India for the prescribed amount of earnest money deposit.
- o. Authorization letter for signing the bid document(s) in the form of duly attested Board Resolution/Power of Attorney or letter of authorization duly signed by all partners/proprietor/Head of Institute on the letter head of the firm/company/institute, as applicable.
- p. Copy of the duly executed Pre-Bid/ Pre-Contract Integrity Pact as per Annexure-V.
- q. Duly filled and signed Profile of bidder as per Annexure VII.
- r. No near relative Certificate/Declaration as per Annexure-VIII.
- s. Self-Certificate for not being black listed/debarred from participation in tender process by any office of the central government as per proforma in Annexure-IX
- t. Duly filled Bid Form as per Annexure XII.
- u. Technical proposal consisting of all Sections and Annexures, subsequent amendments/clarifications if any, duly filled and signed by the authorised signatory of the bidder but without indicating the price.
- v. Presentation on the technical proposal and any other specific information / credentials /supporting documents required for technical qualification of the bidder as per clause 5.2(e)
- w. Each document submitted as part of technical proposal must bear the signature and stamp of the bidder or authorized representatives.

ANNEXURE-IV

Financial Quote for the Training, may be uploaded on GeM Portal in BoQ format only

Tender Inviting Authority: DG (NTIPRIT), Ghaziabad

Name of Work: Request for proposals(RFP) for conducting six (6) months Hybrid (In Campus + On line) Comprehensive Training in “ Network & Mobile Security domain under Competency Development Programme (CDP) training program for DOT officers

Contract No:

Name of the Bidder/
Bidding Firm/
Company:

(This BOQ template must not be modified/ replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidder are allowed to enter the Bidder Name and Values only)

Sl. No.	Item Description	Total amount without taxes (For batch of 30 Participant) in INR	Total amount in words
1	2	3	4
1.0 1	Six (6) months Hybrid (In Campus + On line) Comprehensive Training in “ Network & Mobile Security” domain under Competency Development Programme (CDP)	0.00	INR Zero Only

0.00	0.00		

Note:

1. Quoted cost **for batch of 30 Participant** for the complete duration of course, inclusive of all applicable fees, charges and taxes, in INR.
2. In case of any discrepancy in amount in figures and word, the amount written in words shall prevail.
3. At present, GST is not applicable for training of Govt. officers vide Department of Expenditure Notification No. *12-2017-Central Tax (Rate)* dated 28.06.2017 (Sl.72) of Ministry of Finance.
4. *However, if the GST or any other Tax, becomes applicable in future, it shall be paid by NTIPRIT as per the actual rate prevailing at the time of billing.*
5. The travel expenses for officers up to the selected training institute (to and fro) and also for the outstation industry visits will not constitute cost element in the quote as such cost shall be borne by DoT/NTIPRIT. However for local visits, if any, transportation arrangement will be done by the bidder and cost will also be borne by the bidder.

ANNEXURE-V**PRE CONTRACT INTEGRITY PACT****(ON STAMP PAPER OF ₹ 100/-)****Subject of Bid: 6 MONTHS HYBRID (IN CAMPUS + ON LINE) COMPREHENSIVE TRAINING IN NETWORK & MOBILE SECURITY FOR A BATCH OF 30 PARTICIPANTS****General**

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on (DAY) _____, the _____ day of _____ (Year), between, on one hand, the President of India acting through National Telecommunication Institute for Policy Research, Innovations and Training, Department of Telecommunication, Ministry of Communication, Ghaziabad represented by _____, NTIPRIT (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and _____ represented by _____ (hereinafter called the “BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure the services of _____ (name of institute) for conduction of 6 MONTHS HYBRID (IN CAMPUS + ON LINE) COMPREHENSIVE TRAINING IN NETWORK & MOBILE SECURITY

For a batch of 30 DOT Officers and the BIDDER/Seller has offered the same to be conducted at _____ (name of institute) and WHEREAS the BIDDER is an autonomous academic institution under constituted in accordance with the relevant law in the matter and the BUYER is a CTI of Department of Telecommunications, Government of India performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said training course at a competitive price in conformity with the defined standard by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1. Commitments of the BUYER

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organisation or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is *prima facie* found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

- (i) The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- (ii) The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done 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.
- (iii) BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- (iv) BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- (v) The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or then family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- (vi) The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process,

- bid evaluation, contracting and implementation of the contract.
- (vii) The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
 - (viii) The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
 - (ix) The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
 - (x) The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
 - (xi) If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BIDDER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act '1956.
 - (xii) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

- (a) The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- (b) The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

5.1 While submitting commercial bid, the BIDDER shall deposit an amount 5 Lakhs as Earnest Money/Bid Security, with the BUYER through any of the following instruments:

- (i) Bank Draft/Pay Order/BG from any scheduled bank in favour of AO (Cash), TEC, New Delhi – 110 001, amounting 5 Lakhs.
- (ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof or payment.

(iii) Any other mode or through any other instrument (to be specified in the RFP).

5.2 The Earnest Money shall be valid upto a period of 225 days.

5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as desired by the BUYER and the BUYER shall not be required to assign any reason therefore.

- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - (iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilised to recover the aforesaid sum and interest.
 - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
 - (vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/ rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
 - (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
 - (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
 - (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
 - (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the BUYER to the effect that a breach of the provisions of this

Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. **Fall Clause**

7.1 The BIDDER under takes that it has not supplied /is not supplying similar deliverable /product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry /Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. **Independent Monitors**

8.1 The BUYER has appointed independent Monitors (hereinafter) referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission as detailed below:

*Shri Ravikant, IAS (Retd.)
Apartment no. 502, Tower-I, M3M Merlin
Sector-67, Gurugram-122001
Mobile No. 91- 9953555566
Email: 84ravikant@gmail.com*

8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/ procurement, including minutes of meetings.

8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.

- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER / Subcontractor(s) with confidentiality.
- 8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER/BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. Validity

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 2 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at on

(BUYER)
Witness

(BIDDER)
Witness

1. _____

1. _____

2. _____

2. _____

ANNEXURE-VI**Draft Agreement Form****(On Non-Judicial stamp paper of Appropriate value)****AGREEMENT for conduction of six (6) months Hybrid (In Campus + On line)
Comprehensive Training in “ Network & Mobile Security” domain under Competency
Development Programme (CDP)**

Training Programme for a batch of 30 *DOT Officers* by National Telecommunications Institute for Policy Research and Innovations & Training(NTIPRIT), Ghaziabad ,hereinafter called the Purchaser (which term shall, unless excluded by or repugnant to the subject or context, include its successors and permitted assigns) of the one part, signed on (date) with, hereinafter called the Contractor of (which term shall, unless excluded by or repugnant to the subject or context include its successes and assigns) of the other part.

WHEREAS

- A. The Purchaser is desirous that the work of conduction of Training Programme for DOT Officers at the ----- (selected institute), should be executed as mentioned, enumerated or referred to in the RFP document no. *DOT/NTI/IKR/130/510/02/ Dated 24.05.2023* including all its sections and annexures.
- B. The RFP document No. *DOT/NTI/IKR/130/510/02/ Dated 24.05.2023*, including all its sections and annexures, forms part of this contract though separately set out herein and are included in the expression contract wherever herein used.

AND WHEREAS

The Purchaser has accepted the bid of the Contractor for the awarded work, conveyed vide Letter of Intent No..... dated..... at the rates stated in the Performa of financial quote in Annexure-IV(Parts I,II and III) upon the terms and conditions of the contract.

**NOW THIS AGREEMENT WITNESSTH & IT IS HEREBY AGREED AND DECLARED
AS FOLLOWS**

1. In consideration of the payment to be made to the Contractor (selected institute) for the work to be executed by him, the Contractor (selected institute) shall and will duly provide, execute, and complete the said work and shall do and perform all other acts and things in the contract mentioned or described or which are to be implied and there-from or may be reasonably

necessary for the completion of the said works and at the said times and in the manner and subject to the terms and conditions of the contract.

- 2. In consideration of the due provisions, execution and completion of the said work, the Purchaser does hereby agree to pay to Contractor (selected institute) the respective amounts for the work actually done by him and approved by the Purchaser and such other sum payable to the Contractor under provision of the contract, such payment to be made at such time in such manner as prescribed for in the contract.
- 3. This contract is subject to jurisdiction of courts at Ghaziabad only.
- 4. The agreement shall remain valid for two years from the date of signing unless it is terminated in accordance with the terms and conditions of the RFP document No. *DOT/NTI/IKR/130/510/02/ Dated 24.05.2023.*

In Witness whereof the parties hereto have here-into set their respective hands and seals in the day and the year written above.

Signed and delivered by

Signed and delivered by

(For and on behalf of Purchaser)

(For and on behalf of the Contractor)

In presence of

In presence of

1. _____

1. _____

2. _____

2. _____

ANNEXURE - VII
PROFILE OF BIDDER

1. Full Name of Bidder
2. Registered Address
3. Address of correspondence
4. Details of Contact/Authorized Person
 Name & Designation _____
 Address _____
 Tel No. (Landline) _____ Mobile _____
 Email ID _____ FAX: _____
5. Type of Institute: Government/ Private/Semi-private
 (Please tick the appropriate)
6. Name(s) of Directors/ partners/ proprietor
7. PAN/GIR No.: _____
8. GST Registration No.: _____
9. Earnest money details: DD No. _____ dated _____ for
 Rs.....drawn on _____
10. Bank Account details of the bidder:
 - a. Name and address of Bank
 - b. Account no.
 - c. MICR no.
 - d. IFSC code of Branch
11. Any other relevant information:

(Signatures of authorized signatory)
 Name _____
 Designation _____
 Seal:

ANEEXURE-VIII
NO NEAR-RELATIVE DECLARATION/CERTIFICATE

(To be submitted by either authorized signatory or proprietor, or each partner/director in case of partnership firms/companies)

I _____ son/daughter/wife of
 Shri _____

Proprietor/Partner/Director/Authorised signatory/Representative of
 M/s _____ (Name and address of the bidder) is competent
 to sign this declaration and execute the tender document regarding “Request For Proposals
 (RFP) for conducting 6 MONTHS HYBRID (IN CAMPUS + ON LINE) COMPREHENSIVE
 TRAINING IN NETWORK & MOBILE SECURITY **Training Programme for a batch of
 30 DoT Officers**”

I _____ resident of _____ hereby certify
 that none of relatives of mine/proprietor/partners/directors is/are employed in the units where
 he/she is going to apply for the tender. In case at any stage it is found that the information given
 by me is false/incorrect the purchaser shall have the absolute right to take any action as deemed
 fit/without any prior information to me.

I have carefully read and understood all the terms and conditions of the tender document and
 undertake to abide by the same;

I also undertake that our firm will observe all legal formalities or/and obligations under the
 contract well within time. In case of failure to observe any of the legal formalities or/and
 obligations. I shall be personally liable under the appropriate law.

The Information/documents furnished, along with the tender document are true and authentic to
 the best of my knowledge and belief. I am well aware of the fact that furnishing of any false
 information/fabricated documents would lead to rejection of my tender at any stage besides
 liabilities towards prosecution under appropriate law.

(Signature of Proprietor/Partners/Director/Authorized Signatory)

Full Name:

Date:

Address:

Place:

Seal:

ANNEXURE – IX**NO BLACKLISTING DECLARATION/CERTIFICATE**

(To be submitted by either authorized signatory or proprietor, or each partner/ director in case of partnership firms/companies)

I _____ son/ daughter/ wife of
Shri _____ Proprietor/ Partner/ Director/
Authorized signatory/Representative of M/s

_____ (Name and address of the bidder) is competent to sign this declaration and execute the tender document regarding “Request For Proposals (RFP) for conducting 6 MONTHS HYBRID (IN CAMPUS + ON LINE) COMPREHENSIVE TRAINING IN NETWORK & MOBILE SECURITY For a batch of 30 DoT **Officers**”

I _____ resident of _____ hereby certify that our company has not been black-listed by any Ministry/ Department/ PSU of the Central Government. In case at any stage it is found that the information given by me is false/ incorrect the purchaser shall have the absolute right to take any action as deemed fit/without any prior information to me.

I have carefully read and understood all the terms and conditions of the tender document and undertake to abide by the same;

I also undertake that our firm will observe all legal formalities or/and obligations under the contract well within time. In case of failure to observe any of the legal formalities or/and obligations, I shall be personally liable under the appropriate law.

The Information/documents furnished, along with the tender document are true and authentic to the best of my knowledge and belief. I am well aware of the fact that furnishing of any false information/fabricated documents would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

(Signature of Proprietor/ Partners/ Director/ Authorized Signatory)

Full Name:

Date:

Address:

Place:

Seal:

ANNEXURE - X**PERFORMANCE SECURITY BOND FORM**

In consideration of the President of India (hereinafter called 'the Government') having agreed to exempt ----- (hereinafter called 'the said Contractor(s)' from the demand, under the terms and conditions of an agreement / (Purchase/Work Order) No. ----- Dated _____ made between _____ and _____ ----- for the supply of ----- (hereinafter called 'the said Agreement'), of performance security for the due fulfilment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on Production of a bank guarantee for _____ we, (Name of the bank) _____ ----- (hereinafter referred to as 'the Bank') at the request of ----- Contractor(s) do hereby undertake to pay to the NTIPRIT an amount not exceeding ----- against any loss or damage caused to or suffered or would be caused to or suffered by the NTIPRIT by reason of any breach by the said Contractor(S) of any of the terms or conditions contained in the said Agreement.

2. We (Name of the bank) ----- do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the NTIPRIT stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NTIPRIT by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of the NTIPRIT in these counts shall be final and binding on the bank. However, our Liability under this guarantee shall be restricted to an amount not exceeding -----.

The Bank further agrees that the guarantee herein contained shall remain in full force and effect for a period of 27 months from the date hereof and also that the extension of this guarantee will be provided for by the Bank for such period beyond the period of 27 months as the Purchaser may feel necessary in this behalf.

3. We undertake to pay to the NTIPRIT any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s)/ Contractor (s) in any suit or proceeding 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 Contractor(s)/ supplier(s) shall have no claim against us for making such payment.

- 4. We (name of the bank) ----- Further agree that the guarantee herein contained shall remain in full force and effect during for a period of 27 months from the date of Advance Purchase Order (Date...). And that it shall continue to be enforceable till all the dues of the NTIPRIT under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till----- (NTIPRIT) certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(S) and accordingly discharge this guarantee.
- 5. We (Name of the bank) -----further agree with the NTIPRIT that the NTIPRIT shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary and of the terms and conditions of the said Agreement or to extend time of performance by the said contract(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the NTIPRIT Against and said Contract(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contract(s) or for any forbearance, act or omission on the part of the NTIPRIT or any indulgence by the NTIPRIT to the said contract(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
- 6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/ supplier(s).
- 7. We (name of the bank) ----- lastly undertake not to revoke this guarantee during its currency except with the previous consent of the NTIPRIT in writing.

Dated the ----- day of -----, Two Thousand Fifteen only.

For _____
(Indicate the name of the bank)

Witnesses: (Name & Signature)

1.

Telephone No.(s):-
STD Code-
FAX No.
E-Mail Address:-

2.

ANNEXURE-XI**EMD BG FORM**

Whereas _____ (hereinafter called the

Bidder) has submitted its bid dated _____ for the conducting 6 MONTHS HYBRID (IN CAMPUS + ON LINE) COMPREHENSIVE TRAINING IN NETWORK & MOBILE SECURITY For a batch of 30 DOT Officers against e-Tender Enquiry No. DOT/NTI/IKR/130/510/02/ dated 24.05.2023 know all men by these presents that we

_____ of _____ having our registered office at _____

(hereinafter called the Bank) are bound unto the DG, NTIPRIT (hereinafter called the Purchaser), for the sum of ₹ _____ lakhs (Rs. _____ only) for which payment will and truly be made to the Purchaser, the Bank binds itself, its successors, and assigns by these presents.

The conditions of the obligation are

1. If the Bidder withdraws its bid during the period of the bid validity as specified by the Bidder on the Bid Form, or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser, during the period of bid validity
 - a. Fails or refuses to execute the contract, if required, or
 - b. Fails or refuses to furnish performance security, in accordance with the Instructions to the Bidders.

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

This guarantee will remain in force as specified in the Instruction to the Bidders, for the period 165 days from the date of opening of bid or any other date as extended, and any demand in respect thereof should reach the Bank not later than the specified date(s).

Dated the ----- day of -----, Two thousand nineteen only.

For _____
(Indicate the name of the bank)

Witnesses: -

1.

Telephone No.(s): -
STD Code-
FAX No.
E-Mail Address:-

2.

Telephone No.(s): -
STD Code-
FAX No.
E-Mail Address:-

ANNEXURE -XII
BID FORM

No.

Dated xx.xx.2023

To

DG (NTIPRIT),
ALTTC Campus,
Ghaziabad-201002

Dear Sir,

Having examined the conditions of tender and specifications including clarifications/addenda the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the items quoted in Price Schedule of this bid document in conformity with said conditions of contract and specifications for a sum of amount as quoted in Price Schedule or such other sums as may be ascertained in accordance with the schedule of prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to commence and complete deliveries as prescribed in the tender document. We also undertake to indemnify purchaser and user against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the goods/services or any part thereof, supplied against the tender. Further we also undertake to indemnify the purchaser and user in respect of any damages, claims, loss or action against purchaser and user for acts of commission or omission on our part or on the part of our agents or servants.

If our Bid is accepted, we will obtain and provide to NTIPRIT the guarantees of a Scheduled Bank for a sum not exceeding 5% of the contract sum for the due performance of the Contract.

We agree to abide by this Bid for a period of 180 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Bid submitted by us is properly prepared and protected so as to prevent any subsequent alteration and replacement.

We understand that you are not bound to accept the lowest or any bid, you may receive.

Dated thisday of 2023

(.....)

Signature of.....

in capacity of.....
(Duly authorized to sign the bid for and on behalf of.)

Witness.....
Signature.....
Address.....

Tele No.(s):-
FAX No.(s):-
E-Mail Address:-

ANNEXURE-XIII
Feedback Format

1. Program Design and delivery (30% weightage, 5% to each subhead)
 - I. Area and subject coverage
 - II. Distribution of time among various components of the Course
 - III. Faculty-Mix of academicians and practitioners
 - IV. Qualification and Experience of Inhouse Faculty
 - V. Qualification and Experience of Guest Faculty
 - VI. Program administration
2. Training Material (20% weightage, 5% to each subhead)
 - I. Background readings
 - II. Classrooms material given in the form of cases and exercises
 - III. Post reading sessions, handouts
 - IV. Training Kit, Folder, Writing Pads, stationery etc.
3. Pedagogy (20% weightage, 5% to each subhead)
 - I. Lectures
 - II. Case Study methods
 - III. Discussions
 - IV. Experiential Learning /Visits etc.
4. Administration (30% weightage, 5% to each subhead)
 - I. Office assistance services
 - II. Classroom facilities
 - III. *Accommodation, if applicable*
 - IV. *Housekeeping and room service, if applicable*
 - V. Food quality
 - VI. *Transport arrangements, if applicable*

(The grading will be done on the scale of 0-10)

ANNEXURE-XIV**List of Participants**

Participants List			
S.No.	Name	Designaion	Place of Posting
1	Arpit Shukla	ADG Compliance	LSA Rajasthan
2	Ashish Chugh	Assistant Director General	AP LSA, Hyderabad
3	Ashish Vyas	ADET (AS-IV, DIU)	DoT HQ New Delhi
4	Ashutosh Diwakar	ADG (SAS)	NCCS Bengaluru
5	Avadhesh Singh	ADG (FA)	TEC New Delhi
6	Bipin Ramesh Khot	Director Security	LSA Gujarat
7	Dhanesh Goel	ADG (Telecom Certification)	TEC New Delhi
8	Ganesh Naik Lg	ADET	LSA NE Shillong
9	Kanika Gambhir	ADG (SA)	DoT HQ New Delhi
10	Kota Vijay	ADG-R	AP LSA, Hyderabad
11	Krishna Kumar	ADG Admin	LSA UP East
12	Mayank Awasthi	ADG (NBM)	DGT HQ New Delhi
13	Mohit Kumar Aggarwal	ADG (MM)	TEC New Delhi
14	Naveen Jakhar	ADG (SA)	DoT HQ New Delhi
15	Naveen Khichar	ADET (TSOC)	DoT HQ New Delhi
16	Nishant Chaudhary	ADET (TSOC-II)	DoT HQ New Delhi
17	Prachish Khanna	Director (IR-III)	DoT HQ New Delhi
18	Praveen Kulahari	ADG (TSOC-I)	DoT HQ New Delhi
19	Preetika Singh	ADG (Telecom Security)	TEC New Delhi
20	Pukhraj Meena	ADET Admin	LSA Rajasthan
21	Ravindra Verma	ADG Security	LSA UP East
22	S Gopalan	DDG Compliance	LSA Kerala
23	Simon Samuel	ADG Security	LSA Kerala
24	Venkata Rama Raju Chelle	Director (6G Technologies)	TEC New Delhi
25	Vineet Malik	ADG (DS)	DoT HQ New Delhi
26	Vishal Dheer	ADG (Telecom Security)	NTIPRIT Ghaziabad
27	Yadav Neha Jaiprakash	AD	LSA Gujarat
28	Yashwant Kumar	Director Telecom Security	NTIPRIT Ghaziabad
29	Ziaur Rahman	ADET Admin	LSA New Delhi
30	K.K. Agrawal	Director(Security-I)	DoT HQ New Delhi

ANNEXURE-XV**Topics covered**

Topics Covered in Phase-I	
S.No.	Topic
1	Competence Development Program Framework
2	Proposed Framework for Network & Mobile Security
3	Overview of Security
4	Cyber Security Ecosystem in India
5	Network Security Policies
6	Network Elements & Technologies
7	Network Security Core Concepts
8	Network Security Threats
9	Indian viz-a-viz International Security Posture
10	Web Application Threats
11	IT & Network Security for DoT
12	Cryptography, Hashing, DSC & PKI
13	Security Perspectives from LEAs
Topics Covered in Phase-II	
Sessions	Topics
1	Fundamentals of computer networks Introduction to communication system Issues in Computer Networking Overview of Transmission Media OSI Layers, TCP/IP Models IP Subnetting IPv4 vs IPv6 ISP Routing Concept
2	Introduction to Virtualization Security Fundamentals Firewalls, Types of Firewalls, Limitations of firewall. Proxy Firewall. PfSense Firewall Installation and Configuration, Using Blacklists, Intercepting SSL Traffic

3	<p>Firewall configuration assignment Intrusion Detection and Prevention Intrusion risks, Monitoring and reporting of traffics, Traffic shaping, Investigating and verifying detected intrusions. Using Wireshark for Malicious traffic analysis.</p>
4	<p>Types of intrusion Detection/Prevention Systems, Intrusion Detection/prevention system basics, Limitations of Intrusion Detection/Prevention System Using Snort/PfSense/OSSEC as IDS and IPS</p>
5	<p>IDS / IPS configuration assignment Weekly Exam</p>
6	<p>Spoofing Detection & Prevention DDos & Dos mitigation techniques, Qos Policy Performing DOS/DDOS attacks. Preventing attacks. Virtual Private Networks Deploying and managing VPN, VPN Performance tuning and error handling</p>
7	<p>Configuring VPN using Windows Server. Configuring VPN on PfSense Firewall VPN Configuration assignment</p>
8	<p>SIEM, Log correlation, Vulnerability scanner, BGP Route Hijacking, IPDR Installing and Configuring Nessus Vulnerability Scanner Using NMAP as a vulnerability scanner. Exploiting vulnerabilities Introduction to Metasploit. Hacking into a Windows machine using detected vulnerabilities</p>
9	<p>Assignment based on Vulnerability scanner and hacking systems</p>
10	<p>Installation and configuration of SIEM Using Allienvault OSSIM</p>
11	<p>MySQL: Introduction to MySQL Installing and Configuring MySQL, Queries in MySQL</p>

12	MySQL Database Security Principles, Authentication Bypass, Data Extraction, Advanced Identification/Exploitation Order by/group by, Encoding/decoding Injection Insert/Update, Other HTTP fields, Injection in stored procedures
13	Web Application Security: Web application Security Risks, Identifying the Application Security Risks, Threat Risk Modeling, OWASP Top 10 Concepts Performing SQL Injection attacks on a vulnerable web application
14	Performing other OWASP top 10 attacks on a vulnerable web application
15	Hacking web application assignment Introduction to Web Application Firewalls. Deploy a Web Application Firewall
16	Public Key Infrastructure (PKI) Understand Basic Encryption Concepts, Private Key Encryption, Public Key Encryption, Cryptography, Fundamentals, Cryptographic Algorithm and protocols, Symmetric Key Encryption Algorithms, Public Key Algorithms Configuring a HTTPS site in Windows Understanding File Encryption in Windows
17	Cryptographic issues, PKI Standards, PKI Fundamentals Understand Key Management, TLS Vulnerability Attacks on Cryptography. Password Hacking attacks
18	Data Center Management Introduction to DCM, Data Center design, Data Center Security Procedure, Server Security, Storage area network, Introduction of VMware Vsphere cluster
19	SAN, VSAN, Server Orchestration, Logging and monitoring. Disaster recovery concepts Creating a Security Policy, Creating a Disaster Recovery plan