
	ITI LIMITED	Phone No:	080-28503639
		Fax No:	080-28503653
BANGALORE PLANT			
DOORAVANINAGAR BANGALORE - 560 016			
ENQUIRY			
		Enquiry Ref No:	ASH20K001
		Enq Date:	09.11.2020
		Due Date :-	23.11.2020
Please quote your best prices and delivery for the item as mentioned below.			
S/no	Description of the item	Qty	
3	SUPPLY, INSTALLATION, TESTING, COMMISSIONING & IMPLEMENTSTION of EMI/EMC Mobile Node Shelters for ASCON 4 Project	As per Enclosed Sheet	
Note: Detail Notice Inviting Tender Three Covers System separately sealed 1) Technical Bid along with Un priced commercial Offer 2) Commercial Bid 3) EMD amount of R.35.00 Lakhs			
If any further technical detail required towards submission of offer please contact Mr. NARGUNAN (AGM- R&D) Mob. No. 9448621817 Email ID : nargunan_bgp@itilttd.co.in Copy to : avmurdeshwar_bgp@itilttd.co.in; rosario_bgp@itilttd.co.in			
Note:	1	Delivery required – AS PER ANNEXURE	
	2	Your quoted price shall be all inclusive FOR ITI Ltd. Bangalore -16.	
	3	ITI GST NUMBER: 29AAACI4625C1ZV.	
Terms & Conditions as per enclosure.			
Your sealed quotation SUPERSCRIBING our Enquiry Reference and DUE DATE on the envelope should reach us on or before DUE DATE 23.11.2020 by 3.00 PM. Offer through E-mail will not be considered please			
(Only Technical bid will be opened on next working day at 10.00 AM) and should be addressed to.			
Deputy General Manager-IMM PPC Central Purchase, ITI Limited, Dooravaninagar Bangalore -560 016. Thanking you		Your's faithfully, For I.T.I Limited  Deputy General Manager-IMM-PPC Deputy General Manager (M M) ITI Ltd. Dooravani Nagar Bangalore - 560 016	



**ITI Limited
Network System Unit
Dooravani Nagar
BANGALORE – 560 016**

Ref No: /ASCON-IV/Shelter/

Dated – 09/11/2020

Selection of Bidder

FOR

**Design, Supply, Installation & Commissioning
Of different type of EMI/EMC Mobile Node Shelters for ASCON –IV Project.**

Last Date and Time for submission: 23. 11. 2020, 12.30 Hrs.

ITI Limited
Bangalore Plant
Dooravani Nagar
BANGALORE – 560 016
Ph: 080-28503606

TABLE OF CONTENT

SECTION NO.	ITEM	PAGE NO.
I	INTRODUCTION TO THE PROPOSAL	3
II	SCOPE OF WORK(General)	4
III	MINIMUM ELIGIBILITY CRITERIA	5
IV	GENERAL INSTRUCTIONS TO BIDDERS	6-11
V	INSTRUCTIONS FOR BID SUBMISSION TO BIDDERS	12-14
VI	FINANCIAL BID	15
VII	PAYMENT TERMS & DELIVERY SHEDULE	16
VIII	GENERAL (COMMERCIAL) CONDITIONS OF THE CONTRACT	17-23
-	TECHNICAL SPECIFICATIONS	24-33
-	FORMAT FOR DOCUMENTS	34-39

Notice Inviting Tender (NIT): Important information.

Sl. No.	Information	Details
1	Tender Number	Ref No: Will be allotted later Date: 09.11.2020
2	Tender Name	Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project
3	Work description/Nature of the work	Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project
4	Date of Issue/Publishing of the Tender	09.11.2020
5	Pre-Bid Meeting (Online)	12.11.2020 11:30 AM
6	Last Date and Time for Submission of Bids	23.11.2020 : 3:00 PM
7	Date and Time of Opening of Technical Bids	23.11.2020 at 4.00 pm
8	Date and Time of Opening of Financial Bids	To be intimated later on
9	Tender Fee	Not Applicable
11	EMD	Rs. 35,00,000/- (Rupees Thirty five Lacs Only)
12	Bid Validity	180 Days
13	Validity of the contract	Two Years (extendable)
14	Attachments/Annexures	Formats and Specifications
15	Tender issuing Authority	Purchase Department, ITI Limited, Dooravani Nagar, Bangalore – 560 016

SECTION I: INTRODUCTION TO THE PROPOSAL

1.1. Brief about ITL Ltd and Project Scope.

ITI Limited is a public sector undertaking in the telecommunications technology segment established as a departmental factory in 1948. The company has manufacturing facilities in Bengaluru, Naini, Rae Bareli, Mankapur and Palakkad along with an R&D centre in Bengaluru and 25 Marketing, Services & Projects (MSP) centers in India, which are located at Bengaluru, Bhubaneshwar, Chennai, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi and 17 other places spread across the country.

The company has a diverse suite of products including manufactured products like Gigabit Passive Optical Network (GPON), Managed Leased Line Network (MLLN) products, Stand Alone Signaling Transfer Point(SSTP), Wi-Fi Access Point, Radio Modem, SMPS, Set Top Box, Defence products like multi-capacity encryption units, Bulk encryption Units (BEU), Terminal End Secrecy Devices (TESD), Passive infrastructure products such as Optical Fiber Cable, HDPE duct, Antenna, diversified products such as smart energy meters, smart cards, solar panels, mini personal computers.

Besides offering the telecom turnkey solutions and customized support, ITI has a dedicated Network System Unit for executing turnkey projects for installation and commissioning of telecommunication networks. The company intends to upgrade and invest in the technology, through the acquisition of technology from strategic partners with a specific focus on high growth industry segments. The company operates a data center at Bengaluru and currently expanding the same to offer cloud based services to government institutions/departments, banks etc.

The company is manufacturing a diverse range of Information and Communication Technology (ICT) products/solutions to hone its competitive edge in the convergence market by deploying its rich telecom expertise and vast infrastructure. Company is diversifying towards IOT, Smart city, other allied telecom products and services including turnkey project execution to offer solutions in diversified fields. Encryption Products are the company's forte. Extensive in-house R&D work is devoted towards design and development of encryption solutions to Indian Defense forces.

1.2 Purpose of Tender:

To invite interested companies having relevant financial Capacity, Experienced work force and domain knowledge expertise to manage such projects in respective areas of their interest, matching with their experience in most professional and efficient manner to meet the aspirations of User and value proposition to the customer. Scope of Work (SoW) is mentioned in this document in general and in details.

1.3 Scope of work:

The general scope of work would include Selection of Design, Supply, Installation & Commissioning of different type of EMI/EMC Mobile Node Shelters for ASCON –IV Project. The technical and functional specifications included in this RFP.

--- END OF SECTION I ---

SECTION II: SCOPE OF WORK (General)

The overall scope of work is Design, Supply, Installation & Commissioning of different type of EMI/EMC Mobile Node Shelters for ASCON –IV Project. Tentative BOQ as below:

Sr No	Line Item	QTY
1	Mobile Shelter for Communication Node	20
2	Mobile Shelter for Power Node	20
3	Mobile Shelter for Optical Node	46
4	6.768 Mtr Flatbed	86
5	20 Mtr Mast (Pneumatic)	20
6	30 Mtr Mast (Pneumatic)	40
7	Vehicle Leveling System (Hydraulic Jack + Spirit level)	344

Apart from Design, Supply, Installation & Commissioning; Bidder also need to process for shelterization of communication and non-communication devices on vehicle.

--- END OF SECTION II ---

SECTION III: MINIMUM ELIGIBILITY CRITERIA

S. No.	Eligibility Criteria	Documents Required
1.	a. The Bidder should be entity registered under Companies Act, 1956/2013 or as amended and should have been operating for at least last 3 years in India as on bid submission date.	The Bidder should have certificate of Incorporation or Memorandum of Association / Article of Association.
2	b. Bidder should have an Average annual turnover of at least 12 Cr. during last three (3) audited financial years (2017-18, 2018-19 and 2019-20) :	a) Audited financial statements for the last three financial years (2017-18, 2018-19 and 2019-20). For FY 19-20 Provisional Certificate also allowed but Bidder need to submit Audited copy before signing of Contract. b) Certificate from the Statutory Auditor/Company Secretary on turnover details for the last three (3) financial years (2017-18, 2018-19 and 2019-20).
3	Bidder Should have minimum 1 Cr positive net worth during Last FY.	CA Certificate for Net worth for FY 2019-20
4	The Bidder should have experience of Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters. Bidder should have experience of minimum 50 Nos of MIL standard shelters.	Purchase Order Copy and work Completion Certificate.
5	Bidder Should have Valid PAN and GST Number.	PAN and GST Copy.
6	The Bidder should not have been blacklisted by any Ministry/ department of Govt. of India or by any State Government or any of the Government PSUs or any corporate in India as on bid submission date.	Sole Bidder An undertaking signed by CEO/ Country Head/ Authorized Signatory of the company to be provided on stamp paper of INR 100/- or such equivalent amount and document duly attested by notary public.
7	Bidder Should have minimum 30 Full time Employees.	Self-Declaration with Name of FTE with Designations
8	Bidder Should have Sufficient and Secure Space to Accommodate minimum 5 Numbers of 8 X 8 Vehicles in his Premises for shelterization at any given time. Along with supporting Manufacturing machineries as per the requirements.	Bidder's Undertaking for availability of space along with Premises details like Photos and Factory Area & Security Details, along with machineries details. ITI may visit site for Infrastructure assessment.

--- END OF SECTION III ---

SECTION IV: GENERAL INSTRUCTIONS TO BIDDERS

4.1 Invitation to Bid:

Bids are invited from companies/ firms to participate in this Tender for “Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project” in particular, who meet the minimum eligibility criteria as specified in this Tender.

4.2 Bid Preparation Costs

4.2.1 The bidder shall be responsible for all costs incurred in connection with participation in this Tender process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of bid, in providing any additional information required by the ITIL to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process.

4.2.2 ITIL shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

4.3 Authentication of Bid

A bid should be accompanied by a power-of-attorney in the name of the signatory of the bidder.

4.4 Bid Submission

4.4.1 ITI’s Tender document can be downloaded from ITI web site www.itilttd.in. for this RFP ITI will Share RFP copy to bidders.

4.4.2 Tender document fee not applicable.

4.4.3 The Tender document fee is non-refundable.

4.4.4 Bid shall be valid for at least 180 days from the date of Bid opening.

4.4.5 Each bid shall be accompanied with an EMD from a Scheduled Bank for an amount of INR 35,00,000 (Thirty five Lacs Only) in the form of DD/Bankers Cheque/Bank Guarantee in favor of “ITI Ltd, Bangalore - 560 016” valid for a period of 180 days from the date of bid opening. EMD is not applicable of bidder is MSME bidders, Bidder need to attach valid / active MSME certification.

4.4.6 The successful bidders shall submit a Performance Bank Guarantee (PBG) from a Scheduled Bank to ITI for an amount equal to 10% of the work awarded valid for three years. The PBG should be submitted latest within 10 days from the date of ITI’s requisition (LOI). The validity of the PBG shall be extended in case of the extension of original delivery time lines of the project.

4.4.7 The EMD of the unsuccessful Bidder will be returned/discharged to the Bidder within 30 days of finalization of selection of the Bidder. The EMD of the successful Bidder will be returned on submission of Performance Bank Guarantee for an amount equal to 5 % of the total value of contract.

4.4.8 Bids in prescribed forms shall be submitted in double sealed cover (Technical and Financial Bids in separate envelopes) mentioning clearly, with such super- scription on the top of envelope and submitted to the; (The Physical Submission Options RPAD / Courier / Hand Delivery only)

DGM (IMM-PPC)
ITI Limited,
Dooravani Nagar, Bangalore – 560016”
Phone: 080-28503606
e-Mail: avmurdeswar_bgp@itilttd.co.in

4.5 The Bid submitted shall consist of two covers as below:

4.6 e-Envelope-I [Technical Bid]

It will have the full name, address of the Bidder and of the authorized agent delivering the Tender at the bottom left hand corner of the sealed cover. The cover shall consist of the following:

- 4.6.1 Cover note by the Bidder indicating name of the Company, address, communication details (like, mobile numbers, land line numbers, fax numbers, e-mail ids for correspondence), name and designation of the Bid submission authority etc.)
- 4.6.2 Copy of ITI's Tender document signed by the authorized person of the Bidder at bottom of each page of the Tender document as an acceptance for having read and understood the Tender.
- 4.6.3 Power of attorney in the case of authorized representative having signed the Tender.
- 4.6.4 Bid document fee not applicable for this bid.
- 4.6.5 GST Registration document
- 4.6.6 All Documents as proof of meeting eligibility conditions and satisfying all other requisites for each bid separately.
- 4.6.7 EMD from a Scheduled Bank for a prescribed amount as mentioned in the **Table-(I)** valid for a minimum period of 180 days from the date of bid opening.

4.7 Envelope 2 [Financial BID]

It shall consist of financial bid complete, for all the items mentioned.

- 4.7.1 The bidders shall be for all the line items strictly as per the bid format.
- 4.7.2 Incomplete bids are liable for rejection.
- 4.7.3 The financial bid/quote at any other place than designated will make the bid liable for rejection.

4.8 Important Information:

Sl. No.	Information	Details
1	Tender Number	Ref No: Will be allotted later Date: 09.11.2020
2	Tender Name	Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project
3	Work description/Nature of the work	Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project
4	Date of Issue/Publishing of the Tender	09.11.2020
5	Pre-Bid Meeting (Online)	12.11.2020 : 11:30 AM
6	Last Date and Time for Submission of Bids	23.11.2020 : 3 PM
7	Date and Time of Opening of Technical Bids	23.11.2020 at 4 PM
8	Date and Time of Opening of Financial Bids	To be intimated later on
9	Tender Fee	Not Applicable
11	EMD	Rs. 35,00,000/- (Rupees thirty five Lacs Only)
12	Bid Validity	180 Days
13	Validity of the contract	Two Years (extendable)
14	Attachments/Annexures	Formats and Specifications
15	Tender issuing Authority	Purchase Department, ITI Limited, Dooravani Nagar, Bangalore – 560 016

4.9 Clarifications:

Bidders desirous of seeking clarifications on the Tender may send their queries through email to: **nargunan_bgp@itilttd.co.in** at the following address. The clarifications need to ask within 2 days of RFP publish date.

DGM (IMM-PPC)
ITI Limited, Purchase Dept.,
F-100, 2nd Floor,
Dooravani Nagar, Bangalore - 560 016
Ph: 080-28503606

- 4.10 On the Bid opening day, only technical bids will be opened. The Bidders who are desirous of attending bid opening may do so as per the e-Tendering process (TOE).
- 4.11 Bids without authenticated proof of Bid document fee, EMD and other technical compliances as required and prescribed in this Tender, will be rejected.
- 4.12 The date for opening the financial bids will be communicated to all technically qualified and eligible bidders separately, through registered email.
- 4.13 The address for all correspondences regarding this Tender shall be:

DGM (IMM-PPC)
ITI Limited, Purchase Dept.,
F-100, 2nd Floor,
Dooravani Nagar, Bangalore - 560 016
Ph: 080-28503606
E-mail: avmurdeshwar_bgp@itilttd.co.in

- 4.14 The offers prepared by the Bidders and all the correspondences and documents relating to the offers submitted/exchanged by the Bidder, shall be written in English language.
- 4.15 ITI reserves the right to suspend or cancel the Tender process at any stage, or to accept, or reject any, or all offers at any stage of the process and / or to modify the process, or any part thereof, at any time without assigning any reason, without any obligation or liability whatsoever and the same shall be published in the ITI website or intimated through email.
- 4.16 The Bidder shall bear all costs associated with the preparation and submission of its Tender, including cost of presentation for the purpose of clarification of the offer, if so desired by ITI.
- 4.17 At any time prior to the last date for receipt of offers, ITIL, may, for any reason, whether at its own initiative or in the response to a clarification requested by the prospective bidders, modify the Tender document.
- 4.18 Also, ITI may, at its discretion, extend the last date and time for the receipt of offers and/or make other changes in the requirements set out in the Invitation for Tender at its own accord or in order to provide reasonable time to bidders to take the amendments into account in preparing their offers,
- 4.19 If the last day for the bid submission is declared as a holiday, the bid will be opened at the same time on the next working day.

4.20 Tender will be received/submission up to 12:30 Hrs. on 23/10/2020 and technical bid will be opened on same day i.e. 23/10/2020- at 14:30 Hrs.

4.21 BID PRICES:

The bidder shall quote the item wise price inclusive of all incidentals and inclusive of all taxes and levies but exclusive of Goods and Service Tax. Goods and Service Tax shall be paid extra, as applicable. The bidder shall be responsible for loading/unloading and transporting the materials supplied by ITIL, from its centralized store to the work site.

4.22 The bidder shall quote against all the line items of financial bid. Bids not having quote for all the items/components as per the financial bid format, essential or allied, shall be termed as incomplete and liable for rejection.

4.23 PERIOD OF VALIDITY OF BIDS:

4.23.1 Bid shall remain valid for 180 days from date of opening of the bids (Qualifying Bid). A Bid valid for a shorter period shall be rejected by ITIL as non-responsive.

4.23.2 In exceptional circumstances, the tendering authority may request the consent of the bidder for an extension to the period of bid validity. The request and the response thereto shall be made in writing. In such cases, the bid security provided shall also be suitably extended. The bidder may refuse the request without forfeiting its bid security. A bidder accepting the request and granting extension will not be permitted to modify its bid.

4.24 SIGNING OF BID:

4.24.1 The bidder shall prepare, as a part of his bid, the bid documents duly signed on each and every page (digital signatures accepted on e-tendering portal), establishing the conformity of his bid to the bid documents of all the works to be executed by the bidder under the contract.

4.24.2 The bid shall contain no inter-lineation, erasures or overwriting except as necessary to correct errors made by the bidder in which case such corrections shall be signed with dated by the person or persons signing the bid.

4.25 Disclaimer:

4.25.1 ITI and/or its officers, employees disclaim all liability from any loss or damage, whether foreseeable or not, suffered by any person acting on or refraining from acting because of any information including statements, information, forecasts, estimates or projections contained in this document or conduct ancillary to it whether or not the loss or damage arises in connection with any omission, negligence, default, lack of care or misrepresentation on the part of ITI and/or any of its officers, employees.

4.25.2 All information contained in this Tender provided / clarified is in good faith and interest. This is not an agreement and is not an offer or invitation to enter into an agreement of any kind with any party.

4.25.3 Though adequate care has been taken in the preparation of this Tender document, the interested bidders shall satisfy themselves that the information contained in the document is complete in all respects

to enable to make an informed decision to bid. Interested Bidders are required to make their own enquiries and assumptions wherever required.

Information provided in this document or imparted to any respondent as part of the Tender process is confidential and shall not be used by the respondent for any other purpose, distributed to, or shared with any other person or organization

- 4.26 Bid received / submission after due date and time will not be considered.
- 4.27 Consortium / Joint Venture not allowed.

----- END OF SECTION IV -----

SECTION V: FINANCIAL BID

The bidders are to quote the price understanding complete Supply and installation (where applicable) for the chosen Section (s).

Financial Bid for Mobile Shelters							
		A	B	C	D=(C*B)	E=B+D	F=E*A
Sr No	Line Item	Qty	Unit Price	Tax (GST %)	GST Amount (INR)	Unit Price with Tax	Total
1	Mobile Shelter for Communication Node	20					
2	Mobile Shelter for Power Node	20					
3	Mobile Shelter for Optical Node	46					
4	6.768 Mtr Flatbed	86					
5	20 Mtr Mast (Pneumatic)	20					
6	30 Mtr Mast (Pneumatic)	40					
7	Vehicle Leveling System (Hydraulic Jack + Spirit level)	344					
					Total Price Inclusive of All		

Notes: -

1. ITI Ltd reserves a right to process order on line item-wise Lowest Rate.
2. ITI Ltd can also ask overall Lowest bidder to match Line-item wise L1 Price of other bidders.
3. Price Validity: 365 working Days.
4. ITI Ltd can order the material as per the project requirements, in Multiple Phases.
5. Qty. shown in the bid may increase or decrease as per project requirements.
6. For flatbed line item (4) ITI May change length from 6.768 Mtrs to 7.68 Mtrs. ITI will Pay 8% above and extra with respect to offered price by bidder for these line items.
7. Quantity for line items 5,6 and 7 may vary till 100%.

----- END OF SECTION-V -----

PAYMENT TERMS, DELIVERY TIMELINES & LD

Payment Terms and Milestones

Sr No	Mile Stone	Payment Release
1	On Delivery of Shelter	40%
2	On Nodal AITP by End User	30%
3	On Final AITP of Shelter by End user	30%

1. Delivery Timeline

- a. **Delivery Phase 1:** Bidder will deliver the below mentioned quantities of respective items within 50 days from the date of issuance of LOI to the bidder. Bidder will deliver as per instructions of the ITI;

Item	Quantity
Mobile Communication Node	4
Mobile Optical Node	1
Mobile Power Node	1
Shelterization	As per scope

- b. **Delivery Phase 2:** Bidder will deliver balance material as per ITI's instruction. Minimum delivery per month is equivalent to 6 shelters per month including shelterisation.

2. Liquidated Damages

In the event of the Bidder fails to provide the delivery as per given timelines / schedules, The ITI limited, as his discretion, withhold any payment until the completion of the delivery. Further, the ITI Ltd. may also deduct liquidated damages @ 0.5% of the contract value for every week of delay or part of a week, subject to maximum value of liquidated damages being not higher than 20% of the contract value.

In the case, Liquidated damages reaches upto its maximum value as defined hereinabove, The ITI Limited reserves the right to terminate the contract and / or may blacklist the bidder.

Further, in case of delay in the delivery and ITI is of the opinion that such delay of delivery impacts entire project then ITI holds the right to;

- a. Arrange the similar material from any other agency / third party and the difference cost of such arrangement will be borne by the Bidder
- b. Reserves the right to terminate the contract with the Bidder
- c. Reserves the right to blacklist the bidder.

SECTION VII: GENERAL (COMMERCIAL) CONDITIONS OF THE CONTRACT

1. Compliant Bids/Completeness of Response

- a. Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- b. Failure to comply with the requirements of this paragraph may render the bid non-compliant and the bid may be disqualified. Bidders must:
 - Include all documentation specified in this RFP, in the bid.
 - Follow the format of this RFP while developing the bid and respond to each element in the order as set out in this RFP.
 - Comply with all requirements as set out within this RFP.

2. Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its bid including cost of presentation or proof of concept for the purposes of clarification of the bid, if so desired by the Tenderer. In any case, the Tenderer shall not be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process as may be required in accordance with the conditions of this RFP.

3. Pre-Bid Meeting & Clarifications

a. Pre-Bid Meeting

ITI Ltd will organize a pre-bid meeting within the date and timelines as specified in the Fact Sheet.

- b. Bidders may attend the pre-bid meeting, which will be held on the date specified in the Fact Sheet, during which the Bidders will be free to seek clarifications and make suggestions to the ITI Ltd on the scope of the Services or otherwise in connection with the RFP. Attending any such pre-bid meeting is optional and is at the Bidders' expense. The maximum number of participants from a Bidder, who choose to attend the pre-bid meeting shall not be more than two (2) per Bidder. The representatives attending the pre-bid meeting shall accompany with a letter duly signed by the authorized signatory of his/her organization.

4. Bidders Queries

- a. Any clarification regarding the RFP document, technical and functional specifications and any other item related to this project can be submitted to ITI Ltd as per the timelines mentioned in the Fact sheet along with name and details of the organization submitting the queries.
- b. ITI Ltd shall not be responsible for ensuring that the Bidders' queries have been received by them.
- c. Any requests for clarifications post the indicated date and time shall not be entertained by ITI Ltd.

5. Responses to Pre-Bid Queries and Issue of Corrigendum

- a. ITI Ltd shall formally respond to the pre-bid queries. No further clarifications shall be entertained after the date and time of submission of queries.
- b. ITI Ltd shall endeavor to provide timely response to all queries. However, ITI Ltd makes no representation or warranty as to the completeness or accuracy of any response made in good faith. ITI Ltd does not undertake to answer all the queries that have been posed by the bidders. Any modifications of the RFP Documents, which may become necessary as a result of the Pre-Bid queries,

shall be made by ITI Ltd exclusively through a corrigendum. Any such corrigendum shall be deemed to be incorporated into this RFP.

6. Forfeiture of EMD

The EMD shall be forfeited and appropriated by the ITI Ltd as mutually agreed genuine pre-estimated compensation and damages payable to the ITI Ltd for the time, cost and effort of the ITI Ltd, without prejudice to any other right or remedy that may be available to the ITI Ltd under the RFP or in law under the following conditions:

- a. If a Bidder withdraws or modifies its bid during the bid validity period or any extension agreed by the Bidder thereof;
- b. If a Bidder is disqualified in accordance with RFP;
- c. If the Bidder tries to influence the evaluation process or engages in corrupt, fraudulent, coercive or undesirable practice or restrictive practice as set out in RFP.
- d. If the bidder is declared as the successful bidder and it
- e. Withdraws its Proposal during negotiations. However, failure to arrive at a consensus between the ITI Ltd and the successful bidder shall not be construed as withdrawal of proposal by successful bidder;
- f. fails to sign and return, as acknowledgement, the duplicate copy of the letter of award;
- g. fails to submit the performance bank guarantee and/or sign the contract in accordance with this RFP;
- h. fails to fulfil any other condition precedent to the execution of the Contract, as specified in the letter of award;
- i. Fails to execute the contract.

7. Language

The bid should be prepared and submitted by the bidders in English language only. If any submitted supporting documents are in any language other than English, translation of the same in English language is to be provided (duly attested) by the Bidders. For purposes of interpretation of the documents, the English translation shall govern. Such translated documents shall be notarized and in case of any incorrectness of the translation, the bidder will be penalized.

8. Authentication of Bids

- a. An authorized representative (or representatives) of the Bidder shall sign the bid and physically initial and stamp all pages of the Pre-Qualification, Technical and Commercial Bids.
- b. A certified true copy of a board resolution/power of attorney from the Board of Directors or Managing Director nominating the authorized signatory of documents binding the Bidder organization to the terms and conditions detailed in this tender shall be enclosed. Bid should be accompanied by an authorization in the name of the signatory (or signatories) of the Bid. The authorization shall be in the form of a written power of attorney accompanying the Bid or in any other form demonstrating that the representative has been duly authorized to sign. Any change in the Power of Attorney shall be intimated to ITI Ltd in advance with adequate documents.

9. Deviations and Exclusions

Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the RFP. The bidder shall submit a No Deviation Certificate as per the format specified in RFP. The bids with deviation(s) are liable for rejection.

a. Late Bids

- Late submission will not be entertained and will not be permitted by the e-Procurement Portal.
- The bids submitted by telex/telegram/fax/e-mail etc. shall not be considered. No correspondence will be entertained on this matter.

- ITI Ltd shall not be responsible for delay in submission of any submission related or website related issues and date of submission cannot be extended for such reasons
- ITI Ltd reserves the right to modify and amend any of the above-stipulated condition/criterion.

10. Right to Terminate the Process

ITI Ltd may terminate the RFP process at any time and without assigning any reason. ITI Ltd makes no commitments, express or implied, that this process will result in a business transaction with anyone. This RFP does not constitute an offer by ITI Ltd.

11. Confidentiality

- a. From the time the Bids are opened to the time the Contract is awarded, the Bidder should not contact the ITI Ltd on any matter related to its Qualification Documents, Technical Bid and/or Commercial Bid. Information relating to the evaluation of Proposals and award recommendations shall not be disclosed to the Bidders who submitted the Bids or to any other party not officially involved with the bid process, until the publication of the Contract award.
- b. Any attempt by a Bidder or anyone on behalf of the Bidder to seek any information or influence improperly the ITI Ltd in the evaluation of the Bids or award of the Contract may result in the disqualification of its Bid.
- c. All the material/information shared with the Bidder during the course of this procurement process as well as the subsequent resulting engagement following this process with the successful bidder, shall be treated as confidential and should not be disclosed in any manner to any unauthorized person under any circumstances. The employees of the successful bidder need to furnish a Non-Disclosure Agreement (NDA) as specified in RFP.

12. Fraud and Corrupt Practices

The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, ITI Ltd shall reject a Bid without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the “Prohibited Practices”) in the Selection Process. In such an event, ITI Ltd shall, without prejudice to its any other rights or remedies, forfeit and appropriate the EMD or PBG, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to ITI Ltd for, inter alia, time, cost and effort of ITI Ltd, in regard to the RFP, including consideration and evaluation of such Bidder’s Bid.

13. Conflict of Interest

- a. A bidder shall not have a conflict of interest that may affect the Selection Process or the Solution delivery (the “Conflict of Interest”). Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, ITI Ltd shall forfeit and appropriate the EMD, if available, as mutually agreed genuine pre-estimated compensation and damages payable to ITI Ltd for, inter alia, the time, cost and effort of ITI Ltd including consideration of such Bidder’s Bid, without prejudice to any other right or remedy that may be available to ITI Ltd hereunder or otherwise.
- b. ITI Ltd requires that the bidder provides solutions which at all times hold ITI Ltd’s interests’ paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The bidder shall not accept or engage in any assignment that would be

in conflict with its prior or current obligations to other ITI Ltds, or that may place it in a position of not being able to carry out the assignment in the best interests of ITI Ltd.

- c. **Conflicting activities:** Conflict between consulting activities and procurement of goods, works or non-consulting services: a Bidder that has been engaged by the ITI Ltd to provide goods, works, or non-consulting services for a project, or any of its Affiliates, shall be disqualified from providing consulting services resulting from or directly related to those goods, works, or non-consulting services. Conversely, a Bidder hired to provide consulting services for the preparation or implementation of a project, or any of its Affiliates, shall be disqualified from subsequently providing goods or works or non-consulting services resulting from or directly related to the consulting services for such preparation or implementation.

14. Right to vary Quantity by ITI Ltd

- a. At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.
- b. If the ITI Ltd does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.
- c. Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding document, on the rates and conditions given in the contract if the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionally increased.

15. Currency of proposal

The Bidder shall submit its Financial Proposal in Indian Rupees only

16. Currency of payment

Payments under the Contract shall be made in Indian Rupees only

17. Insurance

The Goods supplied under this Contract shall be fully insured by the Bidder by taking adequate insurance with IRDA approved insurers against, against any loss or damage during transit, upto the time it is installed at the Tenderer's designated location. For the Operations and Maintenance phase, the insurance taken should cover risks such as fire, earthquake, War and cyclone. The bidder shall submit to the Tenderer, certificate of insurance issued by the IRDA approved insurance company, indicating that such insurances have been taken.

**Scope Split between Bidder and ITI Ltd.
Part 1: Optical Node**

Sr. No	Items	Supply By		Installation By		Commissioning By	
		Scope Owner					
1	Prime Mover for Mobile Optical Node	ITIL			Bidder	ITIL	
(a)	EMI/ EMC Mil std Shelter		Bidder		Bidder		Bidder
(b)	Optical Node : Router 1	ITIL			Bidder	ITIL	
(c)	Optical Node : Router 2	ITIL			Bidder	ITIL	
(d)	Voice Bundle	ITIL			Bidder	ITIL	
(e)	Analog Gateway	ITIL			Bidder	ITIL	
(f)	NBC Filter	ITIL			Bidder		Bidder
(g)	OFC Multiplexing Terminal	ITIL			Bidder	ITIL	
(h)	11 KVA DG Set	ITIL			Bidder	ITIL	
(j)	FCBC 400 A	ITIL			Bidder	ITIL	
(k)	Battery Bank	ITIL			Bidder	ITIL	
(l)	OTDR	ITIL			Bidder	ITIL	
(m)	UPS - 1 KVA	ITIL			Bidder	ITIL	
(n)	Split Air Conditioner(1.6 Ton)	ITIL			Bidder		Bidder
(o)	Compass		Bidder		Bidder	ITIL	
(p)	GPS with sub-items		Bidder		Bidder	ITIL	
(q)	Splicing M/C	ITIL			Bidder	ITIL	
(r)	Fire fighting Equipment		Bidder		Bidder		Bidder
(s)	MDF Panel		Bidder		Bidder		Bidder
(t)	Tough Note Book PC	ITIL			Bidder	ITIL	
(u)	Computer Table and Chair		Bidder		Bidder		Bidder
(v)	Printer	ITIL			Bidder	ITIL	
(w)	Rack 42U	ITIL			Bidder	ITIL	
(x)	AVR for A/C Mains - 75 KVA	ITIL			Bidder	ITIL	
(y)	Encryption Unit	ITIL			Bidder	ITIL	
(z)	Vibration Isolators 'x type'		Bidder		Bidder		Bidder
(aa)	Integration Accessories		Bidder		Bidder		Bidder
(ab)	Vehicle Leveling System(Hydraulic Jack + Spirit level		Bidder		Bidder		Bidder
(ac)	3 way jointing Enclosure		Bidder		Bidder	ITIL	
(ad)	Water Storage (200 litre) tank		Bidder		Bidder		Bidder
(ae)	Extra Diesel Storage (200 litre)	ITIL			Bidder	ITIL	
(af)	Camouflage Net		Bidder		Bidder		Bidder
(ag)	Staircase – Ladder for shelter		Bidder		Bidder		Bidder
(ah)	Earthing System with sharper earthing spike		Bidder		Bidder		Bidder
(aj)	Weapon Rack		Bidder		Bidder		Bidder
(ak)	Shelter Electrical Diagram Chart		Bidder		Bidder		Bidder
(al)	I/O Panel (Optical/ Electrical/ Power)		Bidder		Bidder		Bidder
(am)	Power Cable, Switch & Socket Spare		Bidder		Bidder		Bidder
(an)	25Mts. Power Cable with Drum		Bidder		Bidder		Bidder
(ao)	Electrical Wiring Diagram		Bidder		Bidder		Bidder
(ap)	Sledge Hammer		Bidder		Bidder		Bidder
(aq)	Lightning Arrestor with sharper earthing spike		Bidder		Bidder		Bidder
(ar)	Pegs for masts		Bidder		Bidder		Bidder
(as)	Space for additional items		Bidder		Bidder		Bidder

(at)	Space for Ration for 7 days 3 Operators		Bidder		Bidder		Bidder
(au)	Any other Items / Services required as per RFP.		Bidder		Bidder		Bidder

Part 2: Communication Node

Ser No	Items	Supply By		Installation By		Commissioning By	
		Scope Owner					
1	Communication Vehicle	ITIL			Bidder	ITIL	
(a)	EMI/ EMC Mil std Shelter		Bidder		Bidder		Bidder
(b)	Small Router : Router 1	ITIL			Bidder	ITIL	
(c)	Small Router : Router 2	ITIL			Bidder	ITIL	
(d)	Voice Bundle	ITIL			Bidder	ITIL	
(e)	Analog Gateway	ITIL			Bidder	ITIL	
(f)	Antenna Controller	ITIL			Bidder	ITIL	
(g)	Link Way S2 Modem	ITIL			Bidder	ITIL	
(h)	X-PEP NW Accelerator	ITIL			Bidder	ITIL	
(j)	Cisco Router	ITIL			Bidder	ITIL	
(k)	ROUTER/SWITCH, Layer-3, Ethernet, 12-Port, Autosensing 10/100, Rohs, Redundant	ITIL			Bidder	ITIL	
(l)	Encryptor (MCEU)	ITIL			Bidder	ITIL	
(m)	OFC Terminal	ITIL			Bidder	ITIL	
(n)	STM-1 Digital MW Radio Equipment (1+1 HSB)	ITIL			Bidder	ITIL	
(o)	Satellite Terminal	ITIL			Bidder	ITIL	
(p)	MASTS(20 mts)		Bidder		Bidder	ITIL	
(q)	MASTS(30 mts)		Bidder		Bidder	ITIL	
(r)	NBC Filter	ITIL			Bidder	ITIL	
(s)	UPS - 5 kVA with Battery	ITIL			Bidder	ITIL	
(t)	Split Air Conditioner(1.6 Ton)	ITIL			Bidder		Bidder
(u)	Compass		Bidder		Bidder		Bidder
(v)	GPS including following :		Bidder		Bidder	ITIL	
(w)	Tactical OFC Drum	ITIL			Bidder	ITIL	
(x)	Fire fighting Equipment		Bidder		Bidder		Bidder
(y)	MDF panel,DDF Panel		Bidder		Bidder		Bidder
(z)	Industrial Computer/ Tough Book/Laptop	ITIL			Bidder	ITIL	
(aa)	Computer Table & Chair		Bidder		Bidder		Bidder
(ab)	Printer	ITIL			Bidder	ITIL	
(ac)	Rack- 19"	ITIL			Bidder	ITIL	
(ad)	Vibration Isolators 'x-type'		Bidder		Bidder		Bidder
(ae)	Integration Accessories		Bidder		Bidder		Bidder
(af)	Vehicle Leveling System(Hydraulic Jack + Spirit level)		Bidder		Bidder		Bidder
(ag)	Side Shelter (Shelter Pent House)		Bidder		Bidder		Bidder
(ah)	Water storage Tank -200 litre		Bidder		Bidder		Bidder

(aj)	Extra Diesel Storage – 200 litre	ITIL			Bidder	ITIL	
(ak)	Camouflage Net		Bidder		Bidder		Bidder
(al)	Earthing System with sharper earthing spike		Bidder		Bidder		Bidder
(am)	3 way Jointing Enclosure	ITIL			Bidder	ITIL	
(an)	Shelter Electrical Diagram Chart		Bidder		Bidder		Bidder
(ao)	I/O Panel (Optical/ Electrical / Power)		Bidder		Bidder		Bidder
(ap)	Power Cable, Switches & Sockets Spare		Bidder		Bidder		Bidder
(aq)	25 mtr. Power Cable with Drum		Bidder		Bidder		Bidder
(ar)	Staircase – Ladder for shelter		Bidder		Bidder		Bidder
(as)	Operator Chair		Bidder		Bidder		Bidder
(at)	Weapon Rack		Bidder		Bidder		Bidder
(au)	Lightning Arrestor with sharper earthing spike		Bidder		Bidder		Bidder
(av)	Any other Items / Services required as per RFP.		Bidder		Bidder		Bidder

Part 3: Power Node

Ser No	Items	Supply By		Installation By		Commissioning By	
		Scope Owner					
1	Power Vehicle	ITIL			Bidder	ITIL	
(a)	EMI/ EMC MIL Std Shelter		Bidder		Bidder		Bidder
(b)	NBC FILTER	ITIL			Bidder		Bidder
(c)	2 X Low Noise DG 30KVA	ITIL			Bidder	ITIL	
(d)	Battery Bank	ITIL			Bidder	ITIL	
(e)	FCBC 400 A 20 KW	ITIL			Bidder	ITIL	
(f)	AVR 75 KVA	ITIL			Bidder	ITIL	
(g)	Power Cable 100 mts with drum		Bidder		Bidder		
(h)	Fire fighting Eqpt.		Bidder		Bidder		Bidder
(j)	Line insulator		Bidder		Bidder		Bidder
(k)	Staircase – Ladder for shelter		Bidder		Bidder		Bidder
(l)	Interference free light		Bidder		Bidder		Bidder
(m)	MDF		Bidder		Bidder		Bidder
(n)	Lightening arrestor with sharper earthing spike		Bidder		Bidder		Bidder
(o)	Protection against high voltage		Bidder		Bidder		Bidder
(p)	Label Electrical wiring chart		Bidder		Bidder		Bidder
(q)	Camouflage net		Bidder		Bidder		Bidder
(r)	Disruptive pattern painting		Bidder		Bidder		Bidder
(s)	Earthing arrangement with sharper earthing spike		Bidder		Bidder		Bidder
(t)	Water storage tank-200 litre		Bidder		Bidder		Bidder
(u)	Extra Diesel Tank- 200 litre	ITIL			Bidder	ITIL	
(v)	Operator Chair		Bidder		Bidder		Bidder
(w)	Weapon Rack		Bidder		Bidder		Bidder
(x)	UPS 5 KVA with Battery	ITIL			Bidder	ITIL	
(y)	Non EMI Filter		Bidder		Bidder		Bidder
(z)	Vibration Isolators 'x'-type		Bidder		Bidder		Bidder
(za)	Vehicle Leveling System(Hydraulic Jack + Spirit level)		Bidder		Bidder		Bidder
(zb)	Space for Ration for 7 days 3 Operators		Bidder		Bidder		Bidder
(zc)	Any other Items / Services required as per RFP.		Bidder		Bidder		Bidder

Terms & Conditions

For 30 mtrs and 20 mtrs Telescopic Masts:

- a. Operational mechanism should be pneumatic based.
- b. Design with its computational analysis with proper validations to be enclosed.
- c. Retracted height of the masts to be provided.
- d. Fixing arrangement of masts to be provided as per RTA guidelines.

For Vehicle Leveling Systems:

- a. Operational mechanism should be hydraulic based.
- b. Four jacks provided have to be provided along with an integrated control panel.
- c. The leveling screw jacks should be foldable to ensure minimum departure and approach angle during roadability condition. C
- d. Capacity of each jack should be 5 to 10 tons.
- e. Design of the jacks as per the above requirements to be provided.

Detail Bill of Material for Mobile Nodes.

Communication Node:

Ser No	Items	AU	Qty Per Veh	Total Qty
1	Communication Vehicle	Nos	1	20
(a)	EMI/ EMC Mil std Shelter	Nos	1	20
(b)	Small Router : Router 1	Nos	1	20
(c)	Small Router : Router 2	Nos	1	20
(d)	Voice Bundle	Nos	2	40
(e)	Analog Gateway	Nos	2	40
(f)	Antenna Controller	Nos	1	20
(g)	Link Way S2 Modem	Nos	2	40
(h)	X-PEP NW Accelerator	Nos	2	40
(j)	Cisco Router	Nos	2	40
(k)	ROUTER/SWITCH, Layer-3, Ethernet, 12-Port, Autosensing 10/100, Rohs, Redundant	Nos	2	40
(l)	Encryptor (MCEU)	Nos	1	20
(m)	OFC Terminal	Nos	4	80
(n)	STM-1 Digital MW Radio Equipment (1+1 HSB)	Nos	3	60
(o)	Satellite Terminal	Nos	1	20
(p)	MASTS(20 mts)	Nos	1	20
(q)	MASTS(30 mts)	Nos	2	40
(r)	NBC Filter	Nos	2	40
(s)	UPS - 5 kVA with Battery	Nos	1	20
(t)	Air Conditioner	Nos	2	40
(u)	Compass	Nos	1	20
(v)	GPS including following :	Nos	1	20
(w)	Tactical OFC Drum	Nos	1	20
(x)	Fire fighting Equipment	Nos	2	40
(y)	MDF panel,DDF Panel	Set	1	20
(z)	Industrial Computer/ Tough Book/Laptop	Nos	1	20
(aa)	Computer Table & Chair	Nos	3	60
(ab)	Printer	Nos	1	20
(ac)	Rack- 19"	Nos	4	80
(ad)	Vibration Isolators	Nos.	32	640
(ae)	Integration Accessories	Set	1	20
(af)	Vehicle Leveling System	Nos	4	80
(ag)	Side Shelter (Shelter Pent House)	Nos	2	40
(ah)	Water storage - 200 Lts	Nos	1	20
(aj)	Diesel Storage - 200 Lts.	Nos	1	20
(ak)	Camouflage Net	Nos	1	20
(al)	Earthing System	Nos	1	20

(am)	3 way Jointing Enclosure	Nos	1	20
(an)	Shelter Electrical Diagram Chart	Nos	1	20
(ao)	I/O Panel (Optical/ Electrical / Power)	Nos	1	20
(ap)	Power Cable, Switches & Sockets Spare	Set	1	20
(aq)	25 mtr. Power/ Cable with Drum	Nos	1	20
(ar)	Stair Case	Nos	2	40
(as)	Operator Chair	Nos	3	60
(at)	Platform Extension	Nos	1	20
(au)	Lightning Arrestor	Set	1	20

Optical Node.

Ser No	Items	AU	Qty Per Veh	Total Qty
1	Prime Mover for Mobile Optical Node	Nos		46
(a)	EMI/ EMC Mil std Shelter	Nos	1	46
(b)	Optical Node : Router 1	Nos	1	46
(c)	Optical Node : Router 2	Nos	1	46
(d)	Voice Bundle	Nos	2	92
(e)	Analog Gateway	Nos	2	92
(f)	NBC Filter	Nos	2	92
(g)	OFC Multiplexing Terminal	Nos	1	46
(h)	11 KVA DG Set	Nos	2	92
(j)	FCBC 400 A	Nos	1	46
(k)	Battery Bank	Nos	2	92
(l)	OTDR	Nos	1	46
(m)	UPS - 1 KVA	Nos	1	46
(n)	Sidwall Split Air Conditioner (1.6 Ton) (Model No. SD-24-SLT)	Nos	2	92
(o)	Compass	Nos	1	46
(p)	GPS consisting of the following	Nos	1	46
(q)	Splicing M/C	Nos	1	46
(r)	Fire fighting Equipment	Nos	2	92
(s)	MDF Panel	Nos	1	46
(t)	Tough Note Book PC	Nos	1	46
(u)	Computer Table and Chair	Nos	3	138
(v)	Printer	Nos	1	46
(w)	Rack	Nos	1	46
(x)	AVR for A/C Mains - 75 KVA	Nos	1	46
(y)	Encryption Unit	Nos	1	46

(z)	Vibration Isolators	Nos	32	1472
(aa)	Integration Accessories	Set	1	46
(ab)	Vehicle Leveling System(Hydraulic Jack + Spirit level)	Nos	4	184
(ac)	3 way jointing Enclosure	Nos	1	46
(ad)	Water Storage	Nos	1	46
(ae)	Diesel Storage	Nos	1	46
(af)	Camouflage Net	Set	1	46
(ag)	Ladder	Nos	1	46
(ah)	Earthing System	Nos	1	46
(aj)	Platform extension	Nos	1	46
(ak)	Shelter Electrical Diagram Chart	Nos	1	46
(al)	I/O Panel (Optical/ Electrical/ Power)	Nos	1	46
(am)	Power Cable, Switch & Socket Spare	Nos	1	46
(an)	25Mts. Power Cable with Drum	Nos	1	46
(ao)	Electrical Wiring Diagram	Nos	1	46
(ap)	Sledge Hammer	Nos	1	46
(aq)	Lightning Arrestor		1	46
(ar)	Pegs for masts	Sets	27	1242
(as)	Space for additional items	Nos	1	46

Power Node:

Ser No	Items	AU	Qty Per Veh	Total Qty
1	Power Vehicle	Nos	1	20
(a)	EMI/ EMC MIL Std Shelter	Nos	1	20
(b)	NBC FILTER	Nos	2	40
(c)	2 X Low Noise DG 30KVA	Nos	2	40
(d)	Battery Bank	Nos	2	40
(e)	FCBC 400 A 20 KW	Nos	1	20
(f)	AVR 75 KVA Power Cable 100 mts.	Nos	1	20
(g)	AVR 75 KVA Power Cable 100 mts.	Nos	1	20
(h)	Firefighting Eqpt.	Nos	2	40
(j)	Line insulator	Nos	As reqd	
(k)	Staircase - Ladder for shelter	Nos	2	40
(l)	Interference free light	Nos	1	20
(m)	MDF	Nos	1	20
(n)	Lightening arrestor	Nos	1	20

(o)	Protection against high voltage	Nos	1	20
(p)	Label Electrical wiring chart	Nos	1	20
(q)	Camouflage net	Nos	1	20
(r)	Disruptive pattern painting	Nos	1	20
(s)	Earthing arrangement	Nos	1	20
(t)	Water storage capacity of tank	Nos	1	20
(u)	200 litre diesel tank	Nos	1	20
(v)	perator Chair	Nos	3	60
(w)	UPS 5 KVA with Battery	Nos	1	20
(x)	Non EMI Filter	Nos	2	40
(y)	Vibration Isolators	Nos	32	640

TECHNICAL SPECIFICATIONS

POWER VEHICLE

A.	TECHNICAL SPECIFICATION	
1	SCOPE OF WORK	<p>Design, Supply, Configuration, Installation, Implementation, Testing and Commissioning of the Shelter inclusive of the following:</p> <ol style="list-style-type: none">1) Shelter External dimension must be 6058 mm X 2438 mm X 2438 mm.2) Shelter must be EMI hardened with thick 1.2 mm aluminium monolithic sheets (Aluminium structural sandwich panel construction) must be designed to take loads as defined in ASTM E 1925 provided with honeycomb filters wherever EMI/EMC compatibility is required.3) Shelter panels to be fabricated by Rigid Polyurethane foam (70 Kg per cubic meter density) sandwiched between Aluminium sheets (1.2mm thickness) formed by using hot pressure bonding. The reinforcement structural members will be of grade Aluminium Alloy 6005 T6/Equivalent -Aluminium Sheet 3003H14 or equivalent.4) The Shelter floor shall be constructed with pallet and adequate reinforcement has to be provided for DG Set and all other subsystems fitted on shelter side walls.5) Sample piece of the shelter wall of 300 mm x 300 mm to be provided and subjected to Adhesive shear test, Paint Adhesive test, Impact test, Flexural test and Storage temperature test (-20 to 70 °C) as per ASTM E 1925. A test report from any NABL approved labs should be produced.6) The construction of panels shall exhibit high strength to weight ratios, better insulation and shielding performance with the least possible weight as per ASTM E 1925 standard.7) The assembly of the shelter shall be carried either with using high quality blind aluminium rivets or can be assembled by welding the external & internal joints between the sandwich panels to achieve EMI shielding mentioned in ASTM E 1851.8) Bare weight of the shelter should not exceed 2.5 tons \pm 10%.9) Equipped with Aluminium C rails to facilitate fitment for different entities.10) It should have three full length mild steel longitudinal shock and vibration resisting skids underneath the shelter. The shelter will be resting on the skid.11) CG Calculation, Mechanical stability calculation for the fully loaded shelter & combined calculations with the vehicle is to be precisely done and to be submitted with the offer.12) Vent openings and gaps if any to be covered with Honeycomb filters from inside the shelter to comply with EMI/EMC standards (ASTM E 1925).13) Provision of ISO corners to be placed on all 8 corners to fix the shelter on flat bed by means of twist lock.14) Provision for dual NBC filters and it has to be integrated with the shelter along with a Pressure Relief valve. NBC filter is FIM during assembly.15) Two DG (30KVA) main doors (1400 mm x 1800 mm) and two service doors (900 mm x 1800 mm). All doors are to be provided with EMI gaskets and fins

		<p>to ensure EMI shielding. The power shelter shall be equipped with a double door with environmental protection and shall be fitted with louvers for free air circulation. The doors shall have a three point locking mechanism with door stopper for keeping the door in 90 degree open condition.</p> <ol style="list-style-type: none"> 16) Wooden flooring may be provided to be laid inside the shelter. 17) Drains holes to be provided near DG sets. 18) Supply and provision for carriage of accessories should be made on the rooftop. The accessories should be stored on a mesh over the shelter rooftop (not directly on the rooftop). 19) Provision for power cable drum (with 100 m capacity) to be provided at the rear side of the shelter. 20) Supply of 2 numbers of fire extinguisher equipment (ABC Type). 21) Provision for fitment of AVR, FCBC (with Inverter), UPS and Battery Banks in the shelter. 22) Supply and provision for adequate vibration isolators 'x' type for every power equipment in order to avoid the vibration transfer. 23) Provision and supply for covering the shelter with camouflage net (using brackets) and Provision for storing it on the rooftop carriage during transportation. 24) Provision for 2x Low noise DG sets each 30KVA Capacity with CPCB norms (Cold standby configuration). Shelter should have the provision with mechanism for loading and unloading of DG Set from ground to shelter and shelter to ground for maintenance purpose. (DG Sets are issued as FIM) 25) Supply and provision for interference free LEDs lights in adequate numbers, light out curtains, appropriate number of power boards with 5A and 15A sockets. Extension light point to be extended outside the shelter up to 30 meters. 26) The internal LEDs lights are to be controlled by a limit switch. Lights should glow when the door is closed and should not glow when the door is open. Limit switch to be supplied and fitted. 27) Provision of storage capacity for 7 days ration (Size: 75 cubic feet). 28) Provision for a weapon rack, capable of storing 3 rifles. 29) Provision for fitment of 2 EMI filters for Input power points. 30) Supply and provision for MDF (Mains distribution frame) patch panel or PDP (Power distribution panel) on the inside of the shelter with power wiring , provisioned with EMI filter a power line input MCB, RCCB, ELCB, digital VAF, surge protection, protection against high voltages. Shelter manufacturers have to decide and finalise the numbers and capacity of MDF panels. 31) Supply and provision of Input and Output panel (Electrical/ Power) 32) Supply and provision for three type of earthing arrangements, to be provided. (Shelter Earth, Equipment Earth, lighting Surge protector to be provided at MDF Panel) 33) Supply and provision for revolving chairs (3 nos) should have caster wheels, with a provision for vacuum locking mechanism during transportation. 34) Supply and provision for earthing copper strip 25 mm wide and 3 mm thick on inside of the panels along the bottom side in the shelter with 3 numbers of earth spikes and a 20 pounds hammer with 6 meters grounding wire. 35) Well labelled cables and electrical diagrams, Engraved do's and don'ts board. 36) Outside of the shelter and cabin to be painted in a disruptive pattern as per policy of defence. Interior to paint with dull white colour.
--	--	--

		<p>37) The following or equivalent design guidelines are to be followed for appropriate components as given below.</p> <ol style="list-style-type: none"> a. ISO 1161 – Corner Fittings. b. JSS 55555 – Environmental engineering considerations and tests. (L2B) c. ASTME 1925-01 - Design of Shelter d. MIL STD 1472D - Design criteria for Human Engineering for Military system equipment and facilities. e. MIL HDBK 419 – Grounding, bonding and shielding for Electronic equipment and facilities. f. And any other criteria/standards that may be prescribed during the course of design. <p>38) The shelter should go through a standard acceptance test as prescribed by ITI (To be mutually agreed).</p> <p>39) The bid should be accompanied with Shelter Layout drawings (2D & 3D) and solution document for shelterisation.</p> <p>40) Skids to be provided on the bottom of shelter of 150 mm height.</p> <p>The following mechanical and environmental tests shall be carried out. These tests shall be carried out in any order as specified by the inspection agency including VRDE. (Qualification Test to be carried out on one number and Acceptance Test will be carried on balance shelters) in accordance with ASTM E 1925.</p> <ol style="list-style-type: none"> 1. Visual and mechanical 2. Load test on floor 3. Load test on door 4. Door function test 5. Load test on foldable steps 6. Concentrated load test on roof 7. Skidding on rollers 8. Skidding on ground 9. Rigidity of lifting and towing shelter through ISO corners 10. Flat drop test 11. Resistance of roof to sudden drop fall of hauling ropes 12. Rigidity of shelter supported on 3 points 13. EMI/EMC (Bare Shelter) 14. Driving rain test 15. Air tightness / leakage test 16. Light tightness test 17. Roadability test (Annexure 1) <p>The following certificates are to be produced from government accredited agency for the shelters to be supplied:</p> <ol style="list-style-type: none"> 1) Protection of Shelter against EM radiation from defence accredited labs. The EMI shielding attenuation test is to be carried out as per IEEE 299. 2) Certificate for the environmental requirements as per appropriate standards (JSS 55555)
--	--	---

COMMUNICATION NODE

B	TECHNICAL SPECIFICATION	
1	SCOPE OF WORK	<p>Design, Supply, Configuration, Installation, Implementation, Testing and Commissioning of the Shelter inclusive of the following:</p> <ol style="list-style-type: none"> 1) Shelter dimension must be 6058mm X 2438mm X 2438 mm. 2) Shelter must be EMI hardened with thick 1.2mm aluminium monolithic sheets (Aluminium structural sandwich panel construction) must be designed to take loads as defined in ASTM E 1925 provided with honeycomb filters wherever EMI/EMC compatibility is required. 3) Shelter panels to be fabricated by Rigid Polyurethane foam (70 Kg per cubic meter density) sandwiched between Aluminium sheets (1.2 mm thickness) formed by using hot pressure bonding. The reinforcement structural members will be of grade Aluminium Alloy 6005 T6/Equivalent and Aluminium Sheet 3003H14 or equivalent. 4) Shelter floor should be constructed with adequate reinforcement. 5) Sample piece of the shelter wall of 300mm x 300 mm to be provided and subjected to Adhesive shear test, Paint Adhesive test, Impact test, Flexural test and Storage temperature test (-20 to 70 °C) as per ASTM E 1925 standard. A test report should be produced with the approval from NABL Lab. 6) The construction of panels shall exhibit high strength to weight ratios, better insulation and shielding performance with the least possible weight as per ASTM E 1925. 7) Bare weight of the shelter should not exceed 2.5 tons ± 10%. 8) It should have three full length mild steel longitudinal shock and vibration resisting skids underneath the shelter. The shelter will be resting on the skid. 9) The assembly of the shelter shall be carried either with using high quality blind aluminium rivets or can be assembled by welding the external & internal joints between the sandwich panels, to achieve EMI shielding mentioned in ASTM E 1851. 10) Equipped with Aluminium C rails to facilitate fitment for different entities. 11) CG Calculation, Mechanical stability calculation for the fully empty shelter & combined calculation with the vehicle is to be precisely done and submitted to ITI with the offer and when required. 12) Vent openings and gaps if any to be covered with Honeycomb filters from inside the shelter to comply with EMI/EMC standards (ASTM E 1925). 13) Provision for dual NBC filters and it has to be integrated with the shelter along with a Pressure Relief valve. NBC filters are FIM during assembly. 14) Provision for fitment of two split type ACs (Issued as FIM) of capacity 1.6 Tonnes each, to be integrated with the shelter. Thermal Analysis to be carried out considering the environmental condition, electrical and natural heat load, maximum 4 number of operators to determine the ACs load. 15) Provision of ISO corners to be placed on all 8 corners to fix the shelter on flat bed by means of twist lock. 16) One main door (900 mm x 1800 mm) with emergency exit (500 mm x 600 mm) is to be provided with EMI gaskets and fins to ensure EMI shielding. The doors

		<p>shall have a three point locking mechanism with door stopper for keeping the door in 90 degree open condition.</p> <ol style="list-style-type: none"> 17) Supply and provision for a retractable staircase to enter the shelter with a comfortable platform to provide near the door while opening the shelter to provide safety for operator and ladder to climb to the rooftop to be provided. 18) Supply and provision for Anti-static flooring to be laid inside the shelter required. 19) Supply and provision for carriage of accessories, guy ropes, and supporting poles etc should be made on the rooftop. The accessories should be stored on a mesh over the shelter rooftop (not directly on the rooftop). 20) Provision for OFC Cable drum (800 metres) and power cable drum (25 metres) on the rear side of the shelter. Cables are FIM. 21) Provisions for four 19 inch racks of 42 U. Racks are FIM. 22) Supply and provision for fitment of vibration isolators ('x' type) for racks and other subsystems in order to avoid the vibration transfer. The detail design document to be provided during Design review for the positioning. 23) Shelter should be fitted with extendable roofs (waterproof Penthouse) on either side of the shelter. (Size: 3 metre on either side) 24) Supply of 2 numbers of fire extinguisher equipment (ABC Type). 25) Provision of storage capacity for 7 days ration (Size: 75 cubic feet). 26) Supply and provision for water storage (200 litres). 27) Provision for a weapon rack, capable of storing 3 rifles. 28) Provision and supply of covering the shelter with camouflage net (using brackets) and provision for storing it on the rooftop during transportation. 29) Provision for fixing of 3 Telescopic masts (two of 30m and one of 20m as extended height) outside the shelter. If required, hang on a frame to be provided on both front and rear of the shelter. Telescopic Masts are FIM. 30) Provision for fixing satellite antenna of suitable diameter on the rooftop to be provided. Support frame for satellite antenna mounting on the roof top. The Satellite antenna is FIM. Footprints will be given. 31) Supply and provision for interference free LEDs lights in adequate numbers, light out curtains, appropriate number of power boards with 5A and 15A sockets. Extension light point to be extended outside the shelter up to 30 meter. 32) The internal LEDs lights are to be controlled by a limit switch. Lights should glow when the door is closed and should turn off when the door is open. Limit switch to be supplied and fitted. 33) Supply and provision for MDF (Mains distribution frame) patch panel or PDP (Power distribution panel) on the inside of the shelter with power wiring , provisioned with MCB, RCCB, ELCB, digital VAF, surge protection, protection against high voltages. Shelter manufacturers have to decide and finalise the numbers and capacity of MDF panels. 34) Supply and provision of appropriate Input and Output panels (Optical/ Electrical/ Power). 35) Supply and provision for three type of earthing arrangements to be provided (Shelter Earth, Equipment Earth, Surge protector to be provided at MDF Panel) 36) Supply and provision for earthing copper strips 25 mm wide and 3 mm thick inside the shelter along the bottom side in the shelter. 37) 3 numbers of earth spikes and a 20 pounds of hammer -1 No shall be provided along with 6 metres grounding wire.
--	--	--

		<p>38) Supply and provision for revolving chairs (6 nos) should have caster wheels, with a provision for vacuum locking mechanism during transportation and Working foldable table (3 nos) to be supplied and provided along the free side walls of the shelters.</p> <p>39) Well labelled cables and electrical diagrams, Engraved do's and don'ts board and white board (3ft x 2ft) to be provided.</p> <p>40) Outside of the shelter to be painted in a disruptive pattern as per policy of defence. Interior to painter with dull white colour.</p> <p>41) The bid should be accompanied with Shelter Layout drawings (2D & 3D) and solution document for shelterisation.</p> <p>42) The following or equivalent design guidelines are to be followed for appropriate components as given below.</p> <p>B) ISO 1161 – Corner Fittings.</p> <p>C) JSS 55555 – Environmental engineering considerations and tests. (Table number: L2B)</p> <p>D) IEEE 299/ MIL-S-285 – Electromagnetic shielding and attenuation measurements</p> <p>E) ASTME 1925-01- Specification for Engineering and Design Criteria for Rigid Wall Reloadable Structures.</p> <p>F) MIL STD 1472D- Design criteria for Human Engineering for Military system equipment and facilities.</p> <p>G) MIL HDBK 419 – Grounding, bonding and shielding for Electronic equipment and facilities.</p> <p>H) And any other criteria/standards that may be prescribed during the course of design.</p> <p>43) The shelter should go through a standard acceptance test as prescribed by ITI (To be mutually agreed).</p> <p>44) Skids to be provided on the bottom of shelter of 150 mm height.</p> <p>The following mechanical and environmental tests shall be carried out. These tests shall be carried out as specified by the inspection agency including VRDE. (Qualification Test to be carried out on one number and Acceptance Test will be carried on balance shelters) in accordance with ASTM E 1925</p> <p>18. Visual and mechanical.</p> <p>19. Load test on floor</p> <p>20. Load test on door</p> <p>21. Door function test.</p> <p>22. Load test on foldable steps</p> <p>23. Concentrated load test on roof.</p> <p>24. Skidding on rollers</p> <p>25. Skidding on ground</p> <p>26. Rigidity of lifting and towing shelter through ISO corners.</p> <p>27. Flat drop test.</p> <p>28. Resistance of roof to sudden drop fall of hauling ropes.</p> <p>29. Rigidity of shelter supported on 3 points.</p> <p>30. EMI/EMC (Bare Shelter).</p> <p>31. Driving rain test.</p> <p>32. Air tightness / leakage test.</p> <p>33. Light tightness test.</p> <p>34. Roadability test (Annexure 1)</p>
--	--	--

		<p>The following certificates are to be produced from government accredited agency for the shelters to be supplied:</p> <ol style="list-style-type: none"> 1) Protection of Shelter against EM radiation from defence accredited labs. The EMI shielding attenuation test is to be carried out as per IEEE 299. 2) Certificate for the environmental requirements as per appropriate standards (JSS 55555)
--	--	--

OPTICAL NODE:

C	TECHNICAL SPECIFICATION	
1	SCOPE OF WORK	<p>Design, Supply, Configuration, Installation, Implementation, Testing and Commissioning of the Shelter inclusive of the following:</p> <ol style="list-style-type: none"> 1) Shelter dimension must be 6058mm X 2438mm X 2438 mm. 2) Shelter must be EMI hardened with thick 1.2 mm aluminium monolithic sheets (Aluminium structural sandwich panel construction) must be designed to take loads as defined in ASTM E 1925 provided with honeycomb filters wherever EMI/EMC compatibility is required. 3) Shelter shall be two compartments, one for communication and electronic equipment and other for power equipment. Electronic Equipment portion should be EMI shielding. 4) Shelter panels to be fabricated by Rigid Polyurethane foam (70 Kg per cubic meter density) sandwiched between Aluminium sheets (1.2mm thickness) formed by using hot pressure bonding. The reinforcement structural members will be of grade Aluminium Alloy 6005 T6/Equivalent- Aluminium Sheet 3003H14 or equivalent. 5) Sample pieces of the shelter wall of 300 mm x 300 mm to be provided and subjected to Adhesive shear test, Paint Adhesive test, Impact test, Flexural test and Storage temperature test (-20 to 70°C) as per ASTM E 1925. A test report from any NABL approved labs should be produced. 6) The construction of panels shall exhibit high strength to weight ratios, better insulation and shielding performance with the least possible weight as per ASTM E 1925 standard. 7) Bare weight of the shelter should not exceed 2.5 tons \pm 10 %. 8) It should have three full length mild steel longitudinal shock and vibration resisting skids underneath the shelter. The shelter will be resting on the skid. 9) The assembly of the shelter shall be carried either with using high quality blind aluminium rivets or can be assembled by welding the external & internal joints between the sandwich panels to achieve EMI shielding mentioned in ASTM E 1851. 10) Equipped with Aluminium C rails to facilitate fitment for different entities. 11) CG Calculation, Mechanical stability calculation for the fully loaded shelter and combined calculations with the vehicle is to be precisely done and submitted to ITI with the offer. 12) Vent openings and gaps if any to be covered with Honeycomb filters from inside the shelter to comply with EMI/EMC standards (ASTM E 1925).

		<p>13) Provision for dual NBC filters and it has to be integrated with the shelter along with a Pressure Relief valve. NBC filter is FIM during assembly.</p> <p>14) Provision for fitment of 2 numbers of 11KVA DG set (CPCB norms, Cold standby configuration) with suitable shock mount 'x' type. The shelter should have a provision with a mechanism for loading and unloading from ground to shelter and shelter to ground for the maintenance purpose. (DG Sets are issued as FIM)</p> <p>15) Provision for fitment of two split type ACs (Issued as FIM) of capacity 1.6 Tonnes, to be integrated with the shelter. Thermal Analysis to be carried out considering the environmental condition, electrical and natural heat load, maximum 4 number of operators to determine the ACs load.</p> <p>16) Supply and provision of twist locks (Quarter turn bolt) to be clamped down to flatbed by means of ISO corners. (Std: ISO 1161)</p> <p>17) Supply and provision for a retractable staircase to enter the shelter with a comfortable platform to provide near the door while opening the shelter to provide safety for operator and ladder to climb to the rooftop to be provided.</p> <p>18) Supply and provision for Anti-static flooring to be laid inside the shelter in the equipment compartment and wooden flooring may be provided to be laid in the power compartment.</p> <p>19) Drain holes to be provided near DG sets.</p> <p>20) One main door (900 mm x 1800 mm) with emergency exits (500 mm x 600 mm) in the equipment compartment and two entrance doors of size 1400 mm x 1800 mm and two doors on opposite sides of each entrance of size 900 mm x 1800 mm in the power compartment. All doors are to be provided with EMI gaskets and fins to ensure EMI shielding. All doors shall have a three point locking mechanism with door stopper for keeping the door in 90 degree open condition. Position of the doors may be maintained as per the design.</p> <p>21) The DG Compartment shall be equipped with double doors with environmental protection and shall be fitted with louvers for free air circulation.</p> <p>22) Supply and provision for carriage of accessories should be made on the rooftop. The accessories should be stored on a mesh over the shelter rooftop (not directly on the rooftop).</p> <p>23) Provision for power cable drum (25m) on the rear side of the shelter. Cables are FIM.</p> <p>24) Provision for one 19 inch racks of 42 U. Rack is FIM</p> <p>25) Supply and provision for fitment of vibration isolators ('x' type) for rack and other electronic and power subsystems in order to avoid the vibration during transportation. The detail design document to be provided during Design review for the positioning.</p> <p>26) Supply and provision for adequate vibration isolators x type for DG sets in order to avoid the vibration transfer.</p> <p>27) Provision for fitment of AVR, FCBC (with Inverter), UPS and Battery Banks in the shelter.</p> <p>28) Supply and provision of Input and Output panel (Communication/ Electrical/ Power)</p> <p>29) Shelter should be fitted with extendable roofs (Waterproof penthouse) on either side of the shelter (Size: 3 metre on either side).</p> <p>30) Supply of 2 numbers of fire extinguisher equipment (ABC Type).</p> <p>31) Provision of storage capacity for 7 days ration (Size: 75 cubic feet).</p>
--	--	---

		<p>32) Supply and provision for water storage (200 litres)</p> <p>33) Provision for a weapon rack, capable of storing 3 rifles.</p> <p>34) Provision and supply for covering the shelter with camouflage net (using brackets) and Provision for storing it on the rooftop during transportation.</p> <p>35) Supply and provision for interference free LEDs lights in adequate numbers, light out curtains, appropriate number of power boards with 5A and 15A sockets. Extension light point to be extended outside the shelter up to 30 meter.</p> <p>36) The internal LEDs lights are to be controlled by a limit switch. Lights should glow when the door is closed and should turn off when the door is open. Limit switch to be supplied and fitted.</p> <p>37) Supply and provision for MDF (Mains distribution frame) patch panel or PDP (Power distribution panel) on the inside of the shelter with power wiring , provisioned with MCB, RCCB, ELCB, digital VAF, surge protection, protection against high voltages. Shelter manufacturers have to decide and finalise the numbers and capacity of MDF panels.</p> <p>38) Supply and provision for three type of earthing arrangements to be provided (Shelter Earth, Equipment Earth, Surge protector to be provided at MDF Panel)</p> <p>39) Supply and provision for earthing copper strip 25 mm wide and 3 mm thick on inside of the panels along the bottom side in the shelter with 3 numbers of earth spikes and a 20 pounds hammer.</p> <p>40) Supply and provision for revolving chairs (3 nos) should have caster wheels, with a provision for locking mechanism during transportation and Working foldable table (3 nos) to be supplied and provided along the free side walls of the shelters. Supply Guide rails to be provided for chair movement. Provision for printer to be provided.</p> <p>41) Sleeping provision (Berths) for 3 personnel to be provided. Berths to be supplied and fitted.</p> <p>42) Well labelled cables and electrical diagrams, Engraved do's and don'ts board and white board (3ft x 2ft) to be provided.</p> <p>43) Outside of the shelter to be painted in a disruptive pattern as per policy of defence. Interior to painter with dull white colour.</p> <p>44) The bid should be accompanied with Shelter Layout drawings (2D & 3D) and solution document for shelterisation.</p> <p>45) The following or equivalent design guidelines are to be followed for appropriate components as given below.</p> <p>I) ISO 1161 – Corner Fittings.</p> <p>J) JSS 55555 – Environmental engineering considerations and tests. (Table number: L2B)</p> <p>K) IEEE 299/ MIL-S-285 – Electromagnetic shielding and attenuation measurements</p> <p>L) ASTME 1925-01- Design of Shelter</p> <p>M) MIL STD 1472D- Design criteria for Human Engineering for Military system equipment and facilities.</p> <p>N) MIL HDBK 419 – Grounding, bonding and shielding for Electronic equipment and facilities.</p> <p>O) And any other criteria/standards that may be prescribed during the course of design.</p>
--	--	--

		<p>46) The shelter should go through a standard acceptance test as prescribed by ITI (to be mutually agreed).</p> <p>47) Skids to be provided on the bottom of shelter of 150 mm height.</p> <p>The following mechanical and environmental tests shall be carried out. These tests shall be carried out as specified by the inspection agency including VRDE. (Qualification Test to be carried out on one number and Acceptance Test will be carried on balance shelters) in accordance with ASTM E 1925</p> <p>35. Visual and mechanical. 36. Load test on floor 37. Load test on door 38. Door function test. 39. Load test on foldable steps 40. Concentrated load test on roof. 41. Skidding on rollers 42. Skidding on ground 43. Rigidity of lifting and towing shelter through ISO corners. 44. Flat drop test. 45. Resistance of roof to sudden drop fall of hauling ropes. 46. Rigidity of shelter supported on 3 points. 47. EMI/EMC (Bare Shelter). 48. Driving rain test. 49. Air tightness / leakage test. 50. Light tightness test. 51. Roadability test (Annexure 1)</p> <p>The following certificates are to be produced from government accredited agency for the shelters to be supplied:</p> <p>1) Protection of Shelter against EMI radiation from defence accredited labs. The EMI shielding attenuation test is to be carried out as per IEEE 299. 2) Certificate for the environmental requirements as per appropriate standards (JSS 55555)</p>
--	--	---

1. Drawing Attached.

- Shelter Layout of Optical node.
- Shelter Layout of Communication node.
- Shelter Layout of Power node.
- Schematic Flatbed : 6.768 Mtrs
- Schematic Flatbed.: 7.678 Mtrs.

Technical specification of Telescopic masts – 30 m & 20 m

S.No	Description	Value
1	Operational Mode	Pneumatic
2	Extended height	20 m & 30 m
3	Retracted height	Less than 3.3 m
4	Operational Wind Speed	80 kmph
5	Survival Wind Speed	120 kmph
6	Head Load	50 kg
7	Maximum Deflection	0.1 degree
	Operating Temperature	-5 °C to +45 °C.
	Storage Temperature	-20°C to +70°C
	Relative Humidity	>95% for 40°C
8	Provide 3 point guy rope support at 120 degree at each segment	
9	Also provide the fixing solution with analytical results.	

Note: Design of each mast with its computational analysis with proper validations to be enclosed (Mandatory for 30 m).

Technical specification of Hydraulic Jacks (Leveling system)

S.No	Description	Value
1	Operational Mode	Hydraulic
2	Lifting Capacity	10 ton (On each Jack)
3	No. of Jacks per system	4 Nos (2 Nos Left Jack & 2 Nos Right Jack)
4	Levelling Accuracy	±0.05°
5	Mounting Position	Vertical during working, Horizontal during mobility
6	Operating Temperature	-5 °C to +45 °C.
7	Storage Temperature	-20°C to +70°C
8	Relative Humidity	>95% for 40°C
9	Levelling Type	Manual (spirit levelling)

Scope of Shelterisation

1. Fixing vibration isolator for all subsystems and power system (x-type).
2. Power input panel design, installation as per drawing
3. Mounting of Patch Panel and I/O panel as per ITI drawing
4. Shelter to be provided with concealed wiring (Electrical, Power & Communication) with adequate number of sockets and switches. Position of sockets and switches will be provided by ITI
5. Installation of outdoor and indoor AC equipment with necessary Piping arrangement with Control unit
6. Mounting of Antenna mast for communication vehicles.
7. Circuit/ wiring chart diagram of the complete shelter to be fixed inside the shelter
8. Providing 10 meters of Cu claded 25 mm flat earth cable with 20 lbs hammer and sharper earthing spike.
9. Installation of Equipment: Elements mentioned in BOM, Elements supply by ITI (FIM)
10. Design, manufacture and fitment of Flat Bed.
11. Design, manufacture and fitment of Hydraulic Levelling Jacks
12. Providing the circuit/wiring chart diagram of the shelter, with do's and don'ts notice chart.
13. All equipment in Power vehicle like DG sets, Battery bank, UPS, AVR, FCBC to be fitted by bidder

Note:

- 1) Bidder need to submit 100% Technical Compliance on letter head with sign and stamp.
- 2) Also need to submit "No Deviation" undertaking as per format.

BOQ for the Items need to supply, Installation and commissioning under bidder's scope.

Mobile Optical Node				
Ser No	Line Item	Qty Per Node	Total Qty	Make
1	Compass	1	46	SUNTO - MC-2D
2	GPS with sub-items	1	46	Garmin GPSMAP78s
3	Fire fighting Equipment	2	92	SAFEX
4	MDF panel	1	46	SIDWAL
5	Computer Table and Chair	3	138	GODREJ
6	25Mts. Power Cable with Drum	1	46	FINOLEX

Mobile Communication Node				
Ser No	Line Item	Qty Per Node	Total Qty	Make
1	Fire fighting Equipment	2	40	SAFEX
2	MDF panel,DDF Panel	1	20	SIDWAL
3	Computer Table	3	60	GODREJ
4	Power Cable, Switches & Sockets Spare	1	20	Finolex
5	25 mtr. Power/ Cable with Drum	1	20	Finolex
6	Compass	1	20	SUNTO - MC-2D
7	GPS with sub-items	1	20	Garmin GPSMAP78s

Mobile Power Node				
Ser No	Line Items	Qty Per Node	Total Qty	Make
1	Power Cable 100 mts	1	20	FINOLEX
2	Firefighting Eqpt.	2	40	Safex
3	Interference free light	1	20	PHILIPS
4	MDF	1	20	SIDWAL
5	Earthing arrangement	1	20	MARCONITE - PS108

Note: -

- Bidder need to consider and install above Make / Model only for the as per the scope split.
- Scope where ITL Supplying the material. IIT Ltd will share make / Model / Dimensions / power rating with the finalized bidder, after contract.

Formats for Documents

PQ_1: Pre-Qualification and Technical Bid Cover Letter

Date: dd/mm/yyyy

To

Subject: <<NAME OF TENDER>>

Reference: Tender No :<No> Dated<DD/MM/YYYY>

Dear Sir/ Madam,

Having examined the Bid Document (and the clarification / corrigendum issued thereafter, if any), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the Bid Document for the <<**NAME OF TENDER**>>. We attach hereto our responses to Pre-Qualification, Technical-Qualification & Commercial proposals as required by the Bid Document. We confirm that the information contained in these responses or any part thereof, including the exhibits, and other documents and instruments delivered or to be delivered to <<**TENDER AUTHORITY**>>, is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead <<**TENDER Authority**>> in its shortlisting process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the Bid Document (& subsequent clarification / corrigendum, if any) document and also agree to abide by this tender response for a period of 180 days from the Bid Opening date. We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed the Bid Document.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the tender response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Signature of Authorized Signatory (with official seal)

Name :
Designation :
Address :
Telephone& Fax :
E-mail address :

Bidder Information Format

<<*To be printed on prime bidder company's letterhead and signed by Authorized signatory*>>
To whomsoever it may concern,

Bidder information Format

Sr. No.	Particulars	Details
1	Name of the organization	
2	Type of Organization (Pvt. Ltd/ Public Limited)	
3	Country of registered Office	
4	Address of Registered office	
5	Company Registration Details	
6	Date of Registration	
7	PAN No	
8	GST Registration No	
9	No of years of operations in India	
10	Authorized Signatory Name	
11	Authorized Signatory Designation	
12	Authorized Signatory Contact Details	

Yours Sincerely,

Signature of Authorized Signatory (with official seal)

Name :
Designation :
Address :
Telephone& Fax :
E-mail address :

2: Declaration for non-blacklisting

<<To be printed on bidders company's letterhead and signed by Authorized signatory>>

Date: dd/mm/yyyy

To

Subject: Declaration – No Blacklisting

Sir/Madam,

In response to the Tender Ref. No. _____ dated _____ <<NAME OF TENDER>>, as an owner/ partner/ Director of _____, I/ We hereby declare that presently our Company/ firm _____ is not blacklisted or debarred by any Government / PSU on the date of Bid Submission.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the tender if any to the extent accepted may be cancelled.

Signature of Authorized Signatory (with official seal)

Name :
Designation :
Address :
Telephone& Fax :
E-mail address :

PQ_6: Affidavit

Name of work: <<TENDER NAME>>

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm <<BIDDER NAME>> nor any of its constituent partners have abandoned any work in India nor any contract awarded to us for such works has been rescinded during last five years, from the date of this bid submission.
3. The undersigned hereby authorize(s) and request(s) any bank, person, authorities, government or public limited institutions, firm or corporation to furnish pertinent information deemed necessary and requested by the <<TENDER AUTHORITY>> to verify our statements or our competence and general reputation.
4. The undersigned understands and agreed that further qualifying information may be requested, and agrees to furnish any such information at the request of the <<TENDER AUTHORITY>>.
5. The <<TENDER AUTHORITY>> and its authorized representative are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Affidavit will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by you to verify statements and information provided in the tender or with regard to the resources, experience and competence of the Applicant.
6. My/ our offer shall not be considered in case of fake/ forged document(s) found during verification at any stage or at any stage of contract. I/ We are agreed to whatever action (s) taken by competent authority of corporation in the aforesaid circumstances such as forfeiture of security deposit and debarring from participation in future tenders for the period/ years as deemed fit by the corporation and informing the same to all other state/ central level Government/ semi government organizations.

Signature of Authorized Signatory (with official seal)

Name :
Designation :
Address :
Telephone& Fax :
E-mail address :

No Deviation Certificate

To,

Subject: Self Declaration of No Deviation

Reference: Tender No :<No> Dated<DD/MM/YYYY>

Dear Sir,

This is to certify that our offer is exactly in line with your tender enquiry/RFP (including amendments) no. _____ dated _____. This is to expressly certify that our offer contains no deviation either Technical (including but not limited to Scope of Work, Business Requirements Specification, Functional Requirements Specification, Hardware Specification and Technical Requirements Specification) or Commercial in either direct or indirect form.

Signature of Authorized Signatory (with official seal)

Name :

Designation :

Address :

Telephone& Fax :

E-mail address :

BANK GUARANTEE FOR CONTRACT PERFORMANCE

(To be typed on non-judicial stamp paper)

ITI Limited
Corporate Office
ITI Bhavan
Dooravani Nagar
Bangalore-16

1. In consideration of the CMD, ITI Limited (hereinafter called '**ITI**') **having** agreed to exempt M/s. XXXX having its Registered & Corporate Office at _____ (hereinafter called '**Partner**') from the demand under the terms & conditions towards Empanelment of XXX as Partner for providing ITiS services for the teaming agreement made between ITI Limited and XXXX for the "Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project" (hereinafter called "**the said Contract**"), of security deposit for the due fulfilment by the said Partner of the terms & conditions contained in the said Contract, on production of the bank guarantee for Design, Supply, Installation & Commissioning of different type of Mobile Node Shelters for ASCON –IV Project.
2. We, (name of the bank) _____ (hereinafter refer to as "the bank") at the request of XXXXX (Partner) do hereby undertake to pay to the ITI an amount not exceeding _____ against any loss or damage caused to or suffered or would be caused to or suffered by ITI by reason of any breach by the said Partner of any of the terms & conditions contained in the said Contract.
3. We (name of the bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the ITI by reason of breach by the said Partner of any of the terms & conditions contained in the said Contract or by reason of the Partner's failure to perform the said Contract. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of ITI 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 **Rs** _____ (**Rupees** _____)
4. We undertake to pay to the ITI any money so demanded notwithstanding any dispute or disputes raised by the Partner in any suit or proceeding pending before any court or tribunal relating there to 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 Partner shall have no claim against us for making such payment.
5. We (name of the bank) _____ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the ITI under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged or till ITI (office/ Department). ITI certifies that the terms & conditions of the said Contract have been fully or properly carried out by the said Partner and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of THREE YEARS from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.
6. We further undertake that on demand from M/s ITI Limited a Demand for extension at least in six (6) months advance, we shall extend the existing PBG on the same Terms & Conditions as in the existing PBG.

7. We (name of the bank) _____ further agree with the ITI that the ITI shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms & conditions of the said Contractor to extend time of performance by the said Partner from time to time or to postpone for any time or from time to time any of the powers exercisable by the ITI against the said Partner and to forbear or enforce any of the terms & conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Partner or for any forbearance, act or omission on the part of the ITI or any indulgence by the ITI to the said Partner 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.
8. This guarantee shall not be discharged due to the change in the constitution of the Bank or the Partner.
9. We (name of the bank) _____ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the ITI in writing.

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs _____ (Rupees _____)
2. This Bank Guarantee shall be valid upto / / and
3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before / / (date of expiry of guarantee)

Place:

Date:

(Signature of the Bank Officer)

Rubber stamp of the bank:

Authorized Power of Attorney Number:

Name of the Bank officer:

Designation:

Complete Postal address of Bank:

Telephone Numbers

Fax numbers.....

(Bank's common seal)

PRE-CONTRACT INTEGRITY PACT

(To be executed on plain paper and submitted along with Technical Bid/ EOI Documents. To be signed by the bidder and same signatory Competent/ Authorized to sign the relevant contract on behalf of the ITI Ltd).

EOI No.....

This Integrity Pact is made onday of2019

BETWEEN:

ITI Limited,having its Registered & corporate office at ITI Bhavan, Dooravaninagar, Bangalore – 560016 India, and established under the Ministry of Communications & IT, Government of India (hereinafter called the Principal), which term shall unless excluded by or is repugnant to the context, be deemed to include its Chairman & Managing Director, Directors, Officers or any of them specified by the Chairman & Managing Director in this behalf and shall include its successors and assigns) ON THE ONE PART

AND:

M/s represented byChief Executive Officer (hereinafter called the bidder(s)/Contractor(s)), which term shall unless excluded by or is repugnant to the context be deemed to include its heirs, representatives, successors and assigns of the bidder/contract ON THE SECOND PART.

Preamble

WHEREAS the Principal intends to award, under laid down organizational procedures, EOI/contract for..... (name of the Stores / equipments / items). The Principal, values full compliance with all relevant laws of the land, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal has appointed an Independent External Monitor (IEM), who will monitor the EOI process and the execution of the contract for compliance with the principles as mentioned herein this agreement.

WHEREAS, to meet the purpose aforesaid, both the parties have agreed to enter into this Integrity Pact the terms and conditions of which shall also be read as integral part and parcel of the EOI Documents and contract between the parties.

NOW THEREFORE, IN CONSIDERATION OF MUTUAL COVENANTS STIPULATED IN THIS PACT THE PARTIES HEREBY AGREE AS FOLLOWS AND THIS PACT WITNESSETH AS UNDER:

SECTION 1 – COMMITMENTS OF THE PRINCIPAL

The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

1. No employee of the Principal, personally or through family members, will in connection with the EOI for or the execution of the contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the personal is not legally entitled to.
2. The Principal will, during the EOI process treat all bidder(s) with equity and reason. The Principal will in particular, before and during the EOI process, provide to all bidder(s) the same information and will not provide to any bidder(s) confidential/ additional information through which the bidder(s) could obtain an advantage in relation to the EOI process or the contract execution.
3. The Principal will exclude from the process all known prejudiced persons. If the principal obtains information on the conduct of any of its employee, which is a criminal offence under IPC/PC Act or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary action as per its internal laid down Rules/ Regulations.

SECTION 2 – COMMITMENTS OF THE BIDDER / CONTRACTOR

- 2.1 The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself observe the following principles during the participation in the EOI process and during the execution of the contract.
- 2.2 The bidder(s)/contractor(s) will not, directly or through any other person or firm offer, promise or give to any of the Principal's employees involved in the EOI process or the execution of the contract or to any third person any material or other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever (during the EOI process or during the execution of the contract.
- 2.3 The bidder(s)/contractor(s) will not enter with other bidders/ contractors into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.4 The bidder(s)/contractor(s) will not commit any offence under IPC/PC Act, further the bidder(s)/contractor(s) will not use improperly, for purposes of competition of personal gain, or pass onto others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.5. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the agents /representatives in India, if any. Similarly, the Bidder(s)/Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any.

- 2.6 The Bidder(s) f Contractor(s) will, when presenting the bid, disclose any and all payments made, are committed to or intend to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.7 The Bidder(s)/Contractor(s) will not bring any outside influence and Govt bodies directly or indirectly on the bidding process in furtherance to his bid.
- 2.8 The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or to be an accessory to such offences.

SECTION 3 – DISQUALIFICATION FROM EOI PROCESS & EXCLUSION FROM FUTURE CONTRACTS

- 3.1 If the Bidder(s)/Contractor(s), during EOI process or before the award of the contract or during execution has committed a transgression in violation of Section 2, above or in any other form such as to put his reliability or credibility in question the Principal is entitled to disqualify Bidder(s)/Contractor(s) from the EOI process.
- 3.2 If the Bidder(s)/Contractor(s), has committed a transgression through a violation of Section 2 of the above, such as to put his reliability or credibility into question, the Principal shall be entitled exclude including blacklisting for future EOI/contract award process. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the Principal taking into consideration the full facts and circumstances of each case, particularly taking into account the number of transgression, the position of the transgressor within the company hierarchy of the Bidder(s)/Contractor(s) and the amount of the damage. The exclusion will be imposed for a period of minimum one year.
- 3.3 The Bidder(s)/Contractor(s) with its free consent and without any influence agrees and undertakes to respect and uphold the Principal's absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground including the lack of any hearing before the decision to resort to such exclusion is taken. The undertaking is given freely and after obtaining independent legal advice.
- 3.4 A transgression is considered to have occurred if the Principal after due consideration of the available evidence concludes that on the basis of facts available there are no material doubts.
- 3.5 The decision of the Principal to the effect that breach of the provisions of this Integrity Pact has been committed by the Bidder(s)/ Contractor(s) shall be final and binding on the Bidder(s)/ Contractor(s), however the Bidder(s)/Contractor(s) can approach IEM(s) appointed for the purpose of this Pact.
- 3.6 On occurrence of any sanctions/ disqualifications etc arising out from violation of integrity pact Bidder(s)/ Contractor(s) shall not entitled for any compensation on this account.
- 3.7 Subject to full satisfaction of the Principal, the exclusion of the Bidder(s)/Contractor(s) could be revoked by the Principal if the Bidder(s)/ Contractor(s) can prove that he has restored/ recouped the damage caused by him and has installed a suitable corruption preventative system in his organization.

SECTION 4 – PREVIOUS TRANSGRESSION

- 4.1 The Bidder(s)/ Contractor(s) declares that no previous transgression occurred in the last 3 years immediately before signing of this Integrity Pact with any other company in any country conforming to the anti-corruption/ transparency International (TI) approach or with any other Public Sector

Enterprises/ Undertaking in India of any Government Department in India that could justify his exclusion from the EOI process.

- 4.2 If the Bidder(s)/ Contractor(s) makes incorrect statement on this subject, he can be disqualified from the EOI process or action for his exclusion can be taken as mentioned under Section-3 of the above for transgressions of Section-2 of the above and shall be liable for compensation for damages as per Section- 5 of this Pact.

SECTION 5 – COMPENSATION FOR DAMAGE

- 5.1 If the Principal has disqualified the Bidder(s)/Contractor(s) from the EOI process prior to the award according to Section 3 the Principal is entitled to forfeit the Earnest Money Deposit/Bid Security/ or demand and recover the damages equitant to Earnest Money Deposit/Bid Security apart from any other legal that may have accrued to the Principal.
- 5.2 In addition to 5.1 above the Principal shall be entitled to take recourse to the relevant provision of the contract related to termination of Contract due to Contractor default. In such case, the Principal shall be entitled to forfeit the Performance Bank Guarantee of the Contractor or demand and recover liquidate and all damages as per the provisions of the contract agreement against termination.

SECTION 6 – EQUAL TREATMENT OF ALL BIDDERS/CONTRACTORS

- 6.1 The Principal will enter into Integrity Pact on all identical terms with all bidders and contractors for identical cases.
- 6.2 The Bidder(s)/Contractor(s) undertakes to get this Pact signed by its subcontractor(s)/sub- vendor(s)/ associate(s), if any, and to submit the same to the Principal along with the EOI document/contract before signing the contract. The Bidder(s)/Contractor(s) shall be responsible for any violation(s) of the provisions laid down in the Integrity Pact Agreement by any of its subcontractors/ sub-vendors / associates.
- 6.3 The Principal will disqualify from the EOI process all bidders who do not sign this Integrity Pact or violate its provisions.

SECTION 7 – CRIMINAL CHARGES AGAINST VIOLATING BIDDER(S)/CONTRACTORS

- 7.1 If the Principal receives any information of conduct of a Bidder(s)/Contractor(s) or sub- contractor/ sub- vendor/associates of the Bidder(s)/Contractor(s) which constitutes corruption or if the principal has substantive suspicion in this regard, the principal will inform the same to the Chief Vigilance Officer of the Principal for appropriate action.

SECTION 8 – INDEPENDENT EXTERNAL MONITOR(S)

- 8.1 The Principal appoints competent and credible Independent External Monitor(s) for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.

Details of IEM appointed by IT1 are as under:

Shri Venugopal K. Nair, IPS (Retd.), P-1, Waterford Appointment, Pandit Kuruppan Road, Thevara, KOCHI - 682 013

- 8.2 The Monitor is not subject to any instructions by the representatives of the parties and performs his functions neutrally and independently. He will report to the Chairman and Managing Director of the Principal.
- 8.3 The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all product documentation of the Principal including that provided by the Bidder(s)/Contractor(s). The Bidder(s)/Contractor(s) will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The Monitor is under contractual obligation to treat the information and documents Bidder(s)/Contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the project provided such meeting could have an impact on the contractual relations between the Principal and the Bidder(s)/Contractor(s). As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in specific manner, refrain from action or tolerate action.
- 8.5 The Monitor will submit a written report to the Chairman & Managing Director of the Principal within to weeks from the date of reference or intimation to him by the principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.6 If the Monitor has reported to the Chairman & Managing Director of the Principal a substantiated suspicion of an offence under relevant IPC/PC Act, and the Chairman & Managing Director of the principal has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- 8.7 The word 'Monitor' would include both singular and plural.

SECTION 9 - FACILITATION OF INVESTIGATION

9.1 In case of any allegation of violation of any provisions of this Pact or payment of commission, the Principal or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder(s)/Contractor(s) and the Bidder(s)/Contractor(s) shall provide necessary information and documents in English and shall extend all help to the Principal for the purpose of verification of the documents.

SECTION 10 - LAW AND JURISDICTION

10.1 The Pact is subject to the Law as applicable in Indian Territory. The place of performance and jurisdiction shall be the seat of the Principal.

10.2 The actions stipulated in this 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.

SECTION 11 – PACT DURATION

11.1 This Pact begins when both the parties have legally signed it. It expires after 12 months on completion of the warranty/ guarantee period of the project /work awarded, to the fullest satisfaction of the Principal.

11.2 If the Bidder(s)/Contractor(s) is unsuccessful, the Pact will automatically become invalid after three months on evidence of failure on the part of the Bidder(s)/Contractor(s).

11.3 If any claim is lodged/made during the validity of the Pact, the same shall be binding and continue to be valid despite the lapse of the Pact unless it is discharged/determined by the Chairman and Managing Director of the Principal.

SECTION 12 - OTHER PROVISIONS

12.1 This pact is subject to Indian Law, place of performance and jurisdiction is the Registered & Corporate office of the Principal at Bengaluru.

12.2 Changes and supplements as well as termination notices need to be made in writing by both the parties. Side agreements have not been made.

12.3 If the Bidder(s)/Contractor(s) or a partnership,

12.4 Should one or several provisions of this pact turn out to be invalid, the remainder of this pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

12.3 Any disputes/ difference arising between the parties with regard to term of this Pact, any action taken by the Principal in accordance with interpretation thereof shall not be subject to any Arbitration.

12.4 The action 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.

In witness whereof the parties have signed and executed this Pact at the place date first done mentioned in the presence of the witnesses:

For PRINCIPAL

For BIDDER(S)/CONTRACTOR(S)

.....

.....

Name Designation.

Name Designation.

Witness:

1.

1.

2.

2.

NON-DISCLOSURE AGREEMENT (NDA)

This Non- Disclosure Agreement (the "Agreement") is made on this Date day of Month Year by and between

XXX, a Company incorporated under the Companies Act, 1956, having its Office at -----
----- (hereinafter referred to as "XXX", which expression unless the context otherwise means, shall mean and include its successors, affiliates, administrators and assigns) as the party of the FIRST PART.

AND

ITI Ltd. , a Company incorporated under the Companies Act, 1956/2013 having its registered office at ITI Bhavan Dooravaninagar Bengaluru 560016 (hereinafter referred to as ITI, which expression shall, unless the context otherwise requires, mean and include its successors, affiliates, administrators, assigns, or by any other name by which it may be incorporated) as the party of the SECOND PART.

Both XXX and ITI hereinafter be individually referred to as "Party" and collectively referred to as "Parties".

WHEREAS:

A. The Parties intend to engage in discussions in order to evaluate entering into a potential business relationship ("Purpose" or "Proposed Transaction");

B. It is anticipated that each Party may disclose or deliver (such Party, the "Discloser") to the other Party (such Party, the "Recipient"), certain confidential or proprietary information for the Purpose as set forth above;

C. The Parties intend to safeguard and protect the Confidential Information (defined below) from being disclosed to any third parties or being used for any purpose other than the Purpose as mentioned herein above.

Now therefore in consideration of the mutual covenants and for other valuable consideration, the Parties agree as follows:

1. Definitions

"Confidential Information" shall mean any non-public business, commercial or technical information and data of a Party or that of its clients, including but not limited to information relating to any past, present or future business methods, technical systems, research and development projects, services, clients, liabilities, litigations, know-how and any information in respect of which the Discloser owes an obligation of confidentiality to any third party, whether disclosed in writing, orally, electronically or otherwise, by the Discloser or any other party on behalf of the Discloser. Any documents, copies or abstracts, or any modules, samples, prototypes or parts, which reflect or are generated from the foregoing information or data, will also be deemed as Confidential Information.

“Applicable Law” means all acts, rules, laws, legislations, statutes, orders, regulations, ordinances, decrees, rulings, policies, administrative guidelines, codes, instructions, judgments, court orders, treaties, bye-laws, notifications or any directives of any government or judicial authority in India. Applicable Law includes all amendments to and judicial interpretations of the foregoing.

“Authorised Recipients“ means those persons who need to know or have access to the Confidential Information in the course of their professional duties, for the purposes of evaluating, negotiating or advising upon the Proposed Transaction, and include the Recipient's senior executives, professional advisers, agents and representatives.

“Affiliates“ means, in relation to any Party, a person or entity that controls, is controlled by, or is under common control with such Party; for the purposes of this definition, control means (a) the ownership, directly or indirectly, of a majority of the voting securities of that Party, or (b) the power to direct the management or policies of that Party, whether by operation of law, contract or otherwise.

2. Manner of Disclosure

- 2.1 The Recipient acknowledges that the Discloser’s Confidential Information is received under a duty of confidentiality to the Discloser. Recipient shall not disclose, copy, reproduce or distribute the Confidential Information or any part of it or otherwise make it available to any person except as permitted under this Agreement.
- 2.2 All Confidential Information shall be deemed as the Discloser’s trade secrets, unless otherwise designated by the Discloser as non-trade secret Confidential Information.
- 2.3 The Recipient shall treat the Discloser’s Confidential Information with the same degree of care as it protects its own Confidential Information and in no case less than a reasonable degree of care. The Recipient shall keep all Confidential Information securely and properly protected against theft, damage, loss and unauthorised disclosure and access (including access by electronic means).
- 2.4 The Recipient and its Authorised Recipients shall use the Confidential Information solely for the purpose of evaluating and negotiating the Proposed Transaction and not for any other purpose. Under no circumstance shall the Recipient or its Authorised Recipients use any Confidential Information in relation to its own business (other than for the purpose of evaluating and negotiating the Proposed Transaction) or to compete with the Discloser or its Affiliates.
- 2.5 The Recipient may use or disclose Confidential Information only:
 - (a) for the purpose of evaluating the Proposed Transaction or as may be necessary for fulfilling its obligations or effectively exercising its rights pursuant to the Proposed Transaction;
 - (b) to Authorised Recipients, provided that they are bound by the same obligations of confidentiality as the Recipient under this Agreement;
 - (c) if permitted by the Discloser in writing, prior to the disclosure; or
 - (d) to the extent required by an order of any court or other governmental authority, but only after the discloser has been so notified and has had the opportunity, if possible, to obtain reasonable protection for such information in connection with such order.
- 2.6 The Recipient shall notify the Discloser immediately upon becoming aware that any of the Information has been disclosed to, or obtained by, a third party otherwise than as permitted under this Agreement.

3. Return of Information

- 3.1 Upon written request by the Discloser, or upon the termination or expiry of this Agreement (whichever is earlier), the Recipient shall, and shall ensure that its Authorised Recipients, promptly at its/their own cost and expense:
- 3.2 return all Confidential Information to the Discloser, without retaining any copies of such confidential Information; and permanently remove all Confidential Information from any and all computer, word processor, disk, memory stick or other devices containing such Confidential Information, except when the Discloser’s prior written permission to retain Confidential Information has been obtained by the Recipient. In such an event, the obligations under this Agreement shall continue to apply to any such Confidential Information retained.

3.3 The provisions of Clause 3.1 above shall not apply to the extent that the Recipient or any authorised Recipient is required to retain any Confidential Information by any Applicable Law, rule or regulation or by any competent judicial, governmental, supervisory or regulatory body. In such an event, the obligations under this Agreement shall continue to apply to any such Confidential Information retained.

4. Exceptions

The obligations under Clauses 2 and 3 above shall not apply to any Confidential Information, which the Recipient can prove:

- a. is at the time of disclosure, already in the public domain or is available to the public through no breach of this Agreement by the Recipient, except that Confidential Information shall not be deemed to be in the public domain merely because a part of the Confidential Information is embodied in general disclosures or because individual features, components or combinations thereof are known or become known to the public; or
- b. is received by the Recipient from a third party free to lawfully disclose such information to Recipient; or is independently developed by the Recipient without the benefit of any of the Confidential Information, as evidenced by written documentation.

5. Refusal

Either Party shall have the right to refuse to accept any Confidential Information under this Agreement prior to any disclosure and nothing herein shall obligate either Party to disclose any particular Confidential Information.

6. No License or Obligation

It is understood that no license or right of use under any patent or patentable right, copyright, trademark or other proprietary right is granted or conveyed by this Agreement. The disclosure of Confidential Information shall not result in any obligation to grant the Recipient any rights therein or to proceed with the Proposed Transaction.

7. No Remuneration, Warranty and Liability

- 7.1 The Parties are not entitled to any remuneration for disclosure of Confidential Information under this Agreement. No warranties of any kind are given and no liability of any kind shall be assumed by the Discloser with respect to such Confidential Information or any use thereof, nor shall the Discloser indemnify the Recipient against or be liable for any claims by the Recipient, Authorised Recipients or any third party with respect to Discloser's Confidential Information or any use thereof.
- 7.2 Confidential Information is provided on an "as is" basis. In no event shall the Discloser be liable for the accuracy or completeness of the Confidential Information.
- 7.3 Any breach of this Agreement by a Party's Affiliate or Authorised Recipient shall constitute a breach of this Agreement by that Party.

8. Termination

The Recipient's obligations under this Agreement as regards Confidential Information that is designated as non-trade secret Confidential Information shall expire on the earlier of (i) completion of 3 years from the last disclosure of Confidential Information under this Agreement or (ii) the execution of definitive binding documentation implementing the Proposed Transaction and containing no less stringent obligations than those contained herein.

9. Non-Solicitation

Neither Party shall, directly or indirectly, hire or appoint any person who is a director, employee, consultant or individual working under a contract with the other Party; or solicit, encourage or influence or seek to encourage or influence the foregoing persons to leave his/her current employment or to breach the terms of such employment, consultancy or contract, except with the prior consent of the other Party.

The obligations under this Clause shall expire at the earlier of (i) completion of 6 (six) months from the date of the last interactions between the Parties under this Agreement or (ii) the execution of definitive binding documentation implementing the Proposed Transaction and containing obligations similar to the obligations contained in this Clause.

10. No Public Disclosure

Neither Party shall make any public statement, announcement or disclosure to third parties concerning the existence of this Agreement or its terms, the business relationship (if any) between the Parties or the Proposed Transaction, without the prior written approval of the other Party.

11. No Assignment

This Agreement shall not be assigned by either Party without the prior written consent of the other Party.

12. Written Form the provisions of this Agreement may not be modified, amended or waived, except by a written instrument duly executed by the Parties hereto.

13. Severability

If any provision of this Agreement is determined to be invalid, illegal or unenforceable under the Applicable law, the remaining provisions of this Agreement to the extent permitted by law shall remain in full force and effect. To the extent practicable, the offending provision to be replaced with a valid, enforceable, legal provision that reflects the intention of the offending provision.

14. Arbitration & Applicable Law

- 14.1 If any dispute and/or difference arises out of or in connection with any of the terms of this Agreement shall, the Parties hereto shall endeavour to settle such dispute amicably. The attempt to bring about an amicable settlement shall be considered to have failed if not resolved within 60 (sixty) days from the date of the dispute.
- 14.2 Failing such amicable resolution, such dispute or difference shall be referred to arbitration by a sole arbitrator appointed by XXX to be conducted as per the Arbitration and Conciliation Act, 1996. The venue of the arbitration shall be Bangalore (India) and the arbitration proceedings shall be carried out in English language. The arbitral award shall be final and binding on Parties.
- (a) The above clauses on Arbitration shall survive for three (03) years even after the expiry/termination of agreement.
- (b) It is expressly understood and agreed by and between parties that ITI is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed between the Parties that the Government of India is not a party to this agreement and has no liabilities, obligations or rights hereunder. It is hereby expressly understood and agreed that ITI is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable Laws of India and general principles of Contract Law. ITI represents and XXX expressly agrees, acknowledges and understands that ITI is not an agent, representative or delegate of the Government of India. It is further understood and agreed between the Parties that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, XXX hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this

contract and covenants not to sue the Government of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

- 14.3 Nothing in Agreement shall prevent either Party from applying to a court for provisional or interim measures or injunctive relief as may be necessary to safeguard such Party's Confidential Information or other rights hereunder. For such purpose, appropriate courts in Mumbai shall have exclusive jurisdiction.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE EXECUTED THIS AGREEMENT ON THE DATE AND AT THE PLACE FIRST MENTIONED HEREINABOVE.

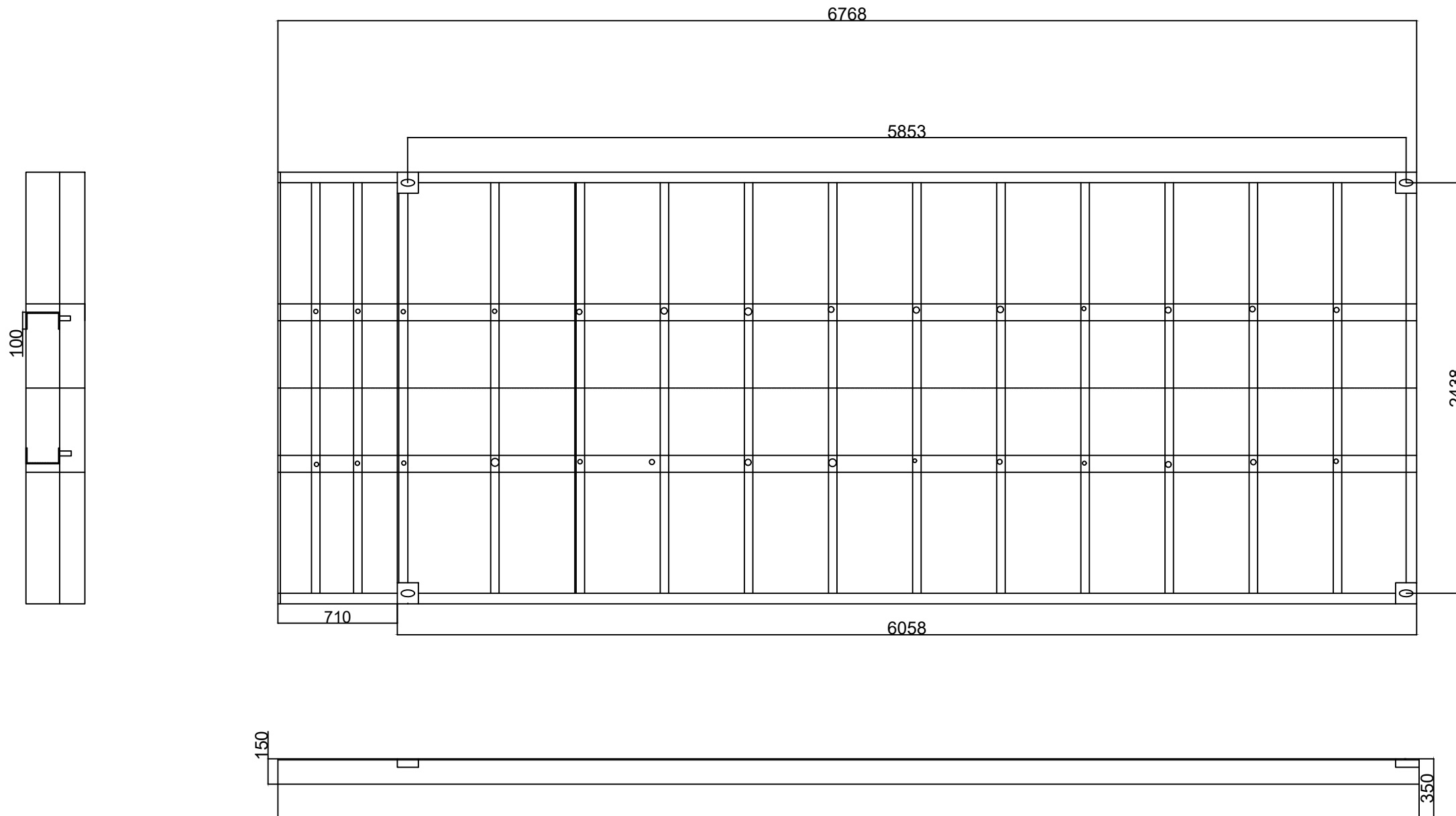
For XXX

Name: Designation:

For ITI Ltd. Name: Designation:

This document is the property of the ITI LIMITED Bangalore-16, India & may not be copied, reprinted or disclosed to a third party without the written consent of the proprietors.

SHEET:- 1 OF 1		
DRAFT ISSUE		APP.
1	07-11-2020	CNG



Note :
1. The dimensions of ISO Corner as per Mil Standard .

PROVISIONAL
SIGN:-

ALL DIMENSIONS IN 'mm'

REF.:--ASCN PHASE IV
W.O.:-- XXXXXX
U.O.:-- XXXXXX

FLAT BED

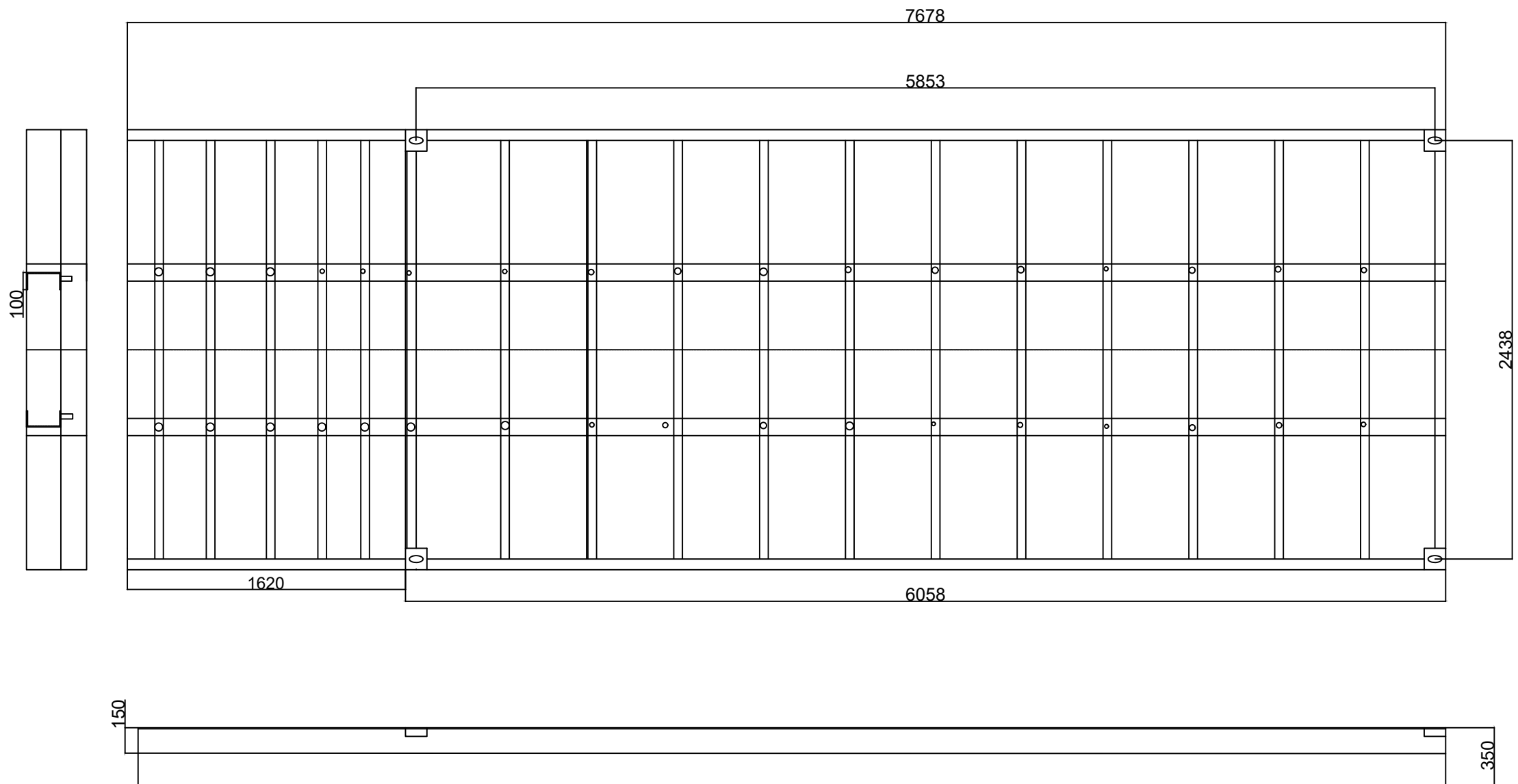
MODEL No. T815 27ER96 28 300 8x8.1R/50T

ASCN - PHASE 4

DRN. AARYAN	ENGR.	C. NARGUNAN	
TRD.			
CHD.	APP.	C. NARGUNAN	

This document is the property of the ITI LIMITED Bangalore-16, India & may not be copied, reprinted or disclosed to a third party without the written consent of the proprietors.

SHEET:- 1 OF 1		
DRAFT	ISSUE	APP.
1	07-11-2020	CNG



PROVISIONAL
SIGN:-

ALL DIMENSIONS IN 'mm'

REF.:--ASCN PHASE IV
W.O.:-- XXXXXX
U.O.:-- XXXXXX

Note :
1.The dimensions of ISO Corner as per Mil Standard .

FLAT BED			
MODEL No. T815 27ER96 30 300 8x8.1R/50T-4150			
ASCN - PHASE 4			
DRN. AARYAN	ENGR.	C. NARGUNAN	
TRD.			
CHD.	APP.	C. NARGUNAN	
XXXXXXXXXX			
		ITI LIMITED BANGALORE-16	A3

This document is the property of the ITI LIMITED Bangalore-16, India & may not be copied, reprinted or disclosed to a third party without the written consent of the proprietors.

PROVISIONAL
SIGN:-

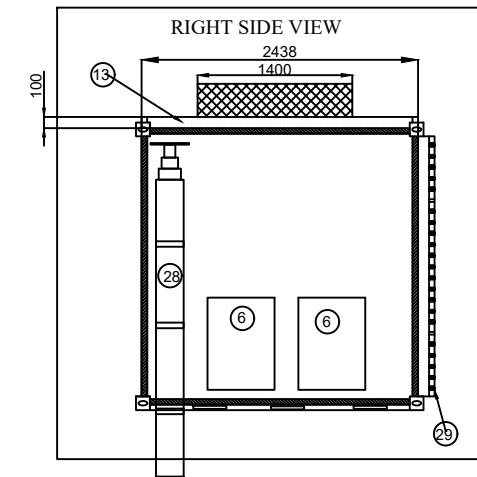
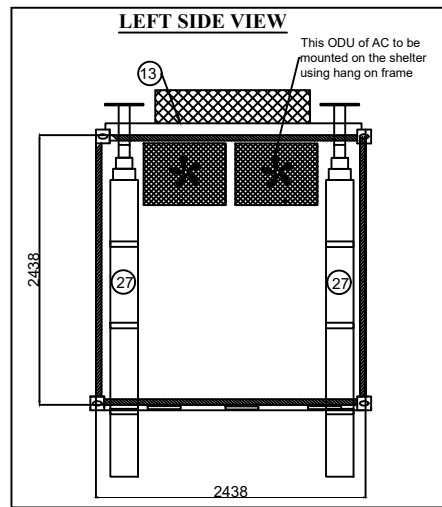
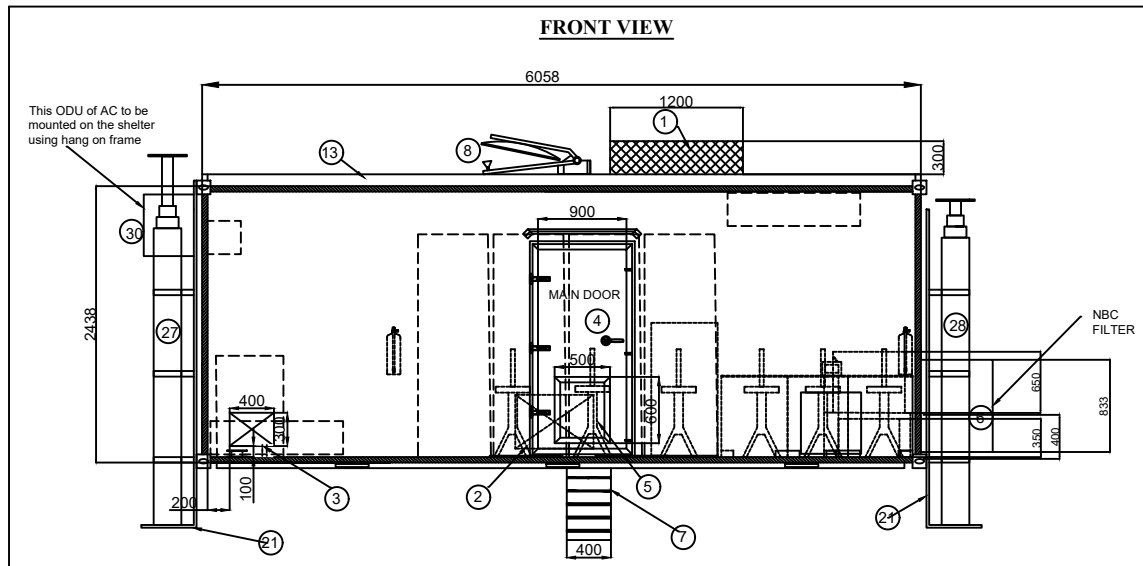
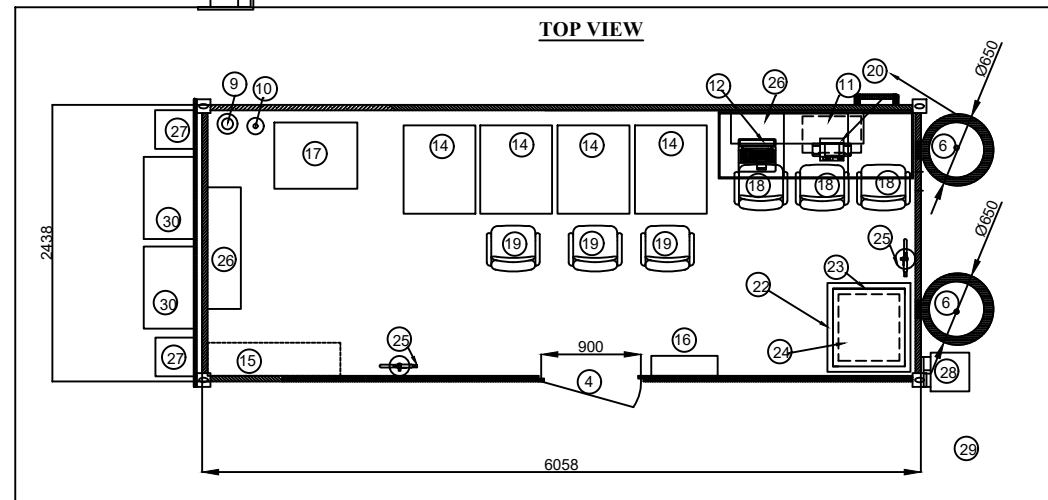
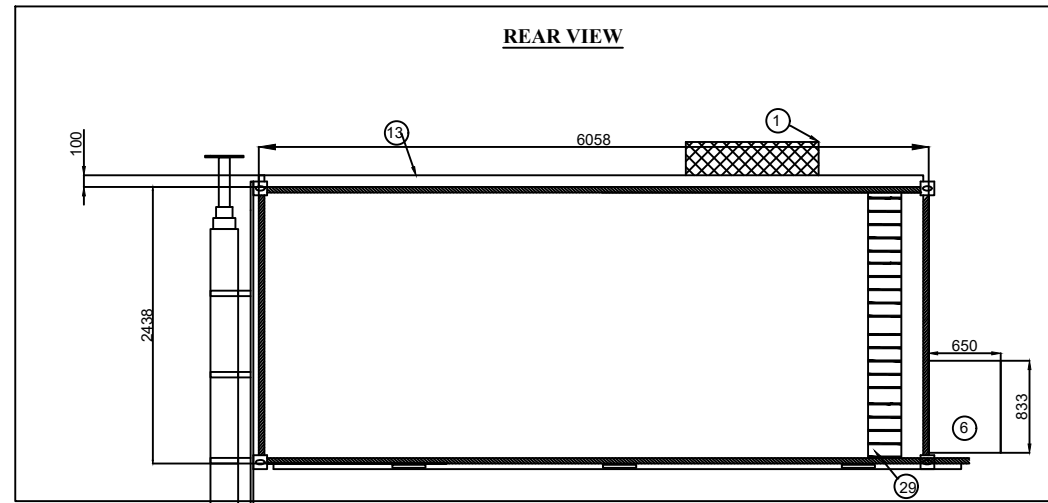
ALL DIMENSIONS IN 'mm'

REF.:--ASCON PHASE IV

W.O.:-- XXXXXX

U.O.:-- XXXXXX

- ① Rooftop Luggage Box
- ② Electrical/ Communication I/O Panel
- ③ Power I/O Panel - mains Supply
- ④ Main Entrance Door
- ⑤ Emergency Exit Door
- ⑥ NBC Filter
- ⑦ Retractable staircase
- ⑧ Satellite Antenna
- ⑨ 25m power drum
- ⑩ 800m Tactical OFC drum
- ⑪ UPS 5 KVA with battery
- ⑫ Industrial Computer/ Tough Notebook
- ⑬ Secondary Roof
- ⑭ 19 inch Rack 42U
- ⑮ MDF Panel
- ⑯ Weapon Rack
- ⑰ Tool Box: GPS, Compass & other accessories
- ⑱ Computer Table & Chair
- ⑲ Operational Chair
- ⑳ Printer
- ㉑ Hang on frame
- ㉒ Water tank Platform
- ㉓ Water Tank- 200L
- ㉔ Ration Box
- ㉕ Fire fighting equipment
- ㉖ Split AC IDU
- ㉗ Mast- 30m
- ㉘ Mast- 20m
- ㉙ Fixed ladder
- ㉚ Split AC ODU

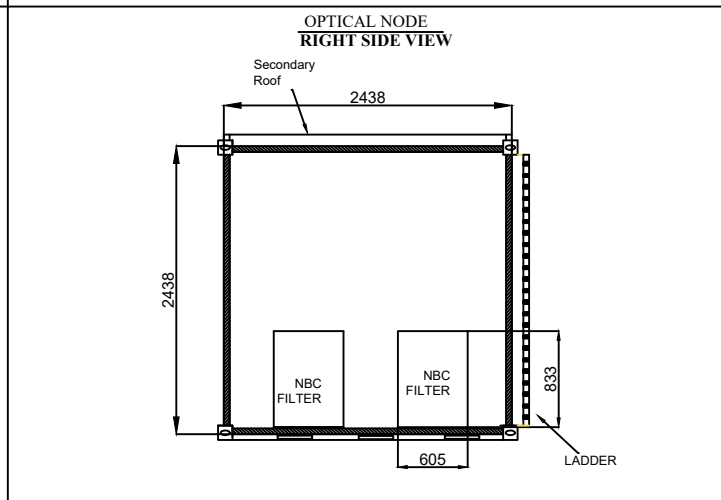
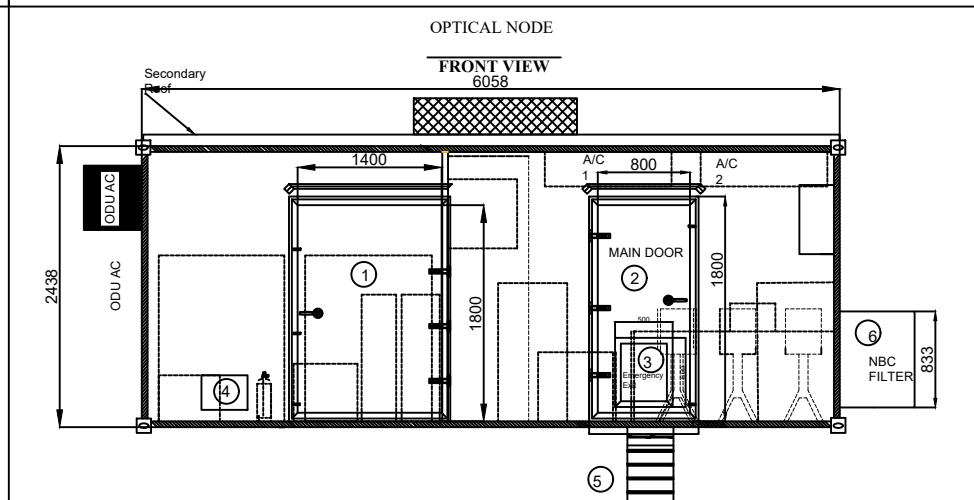
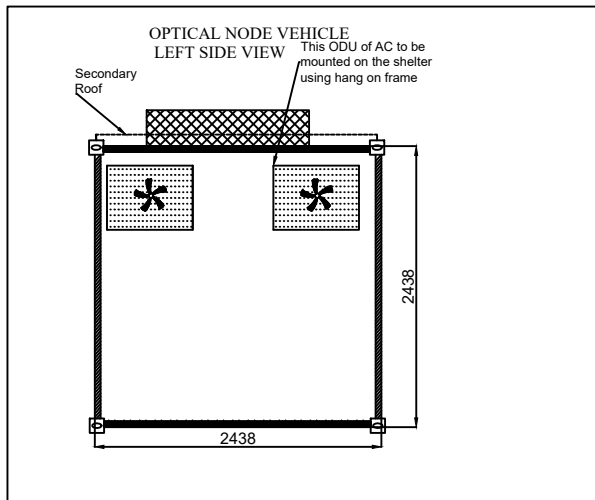
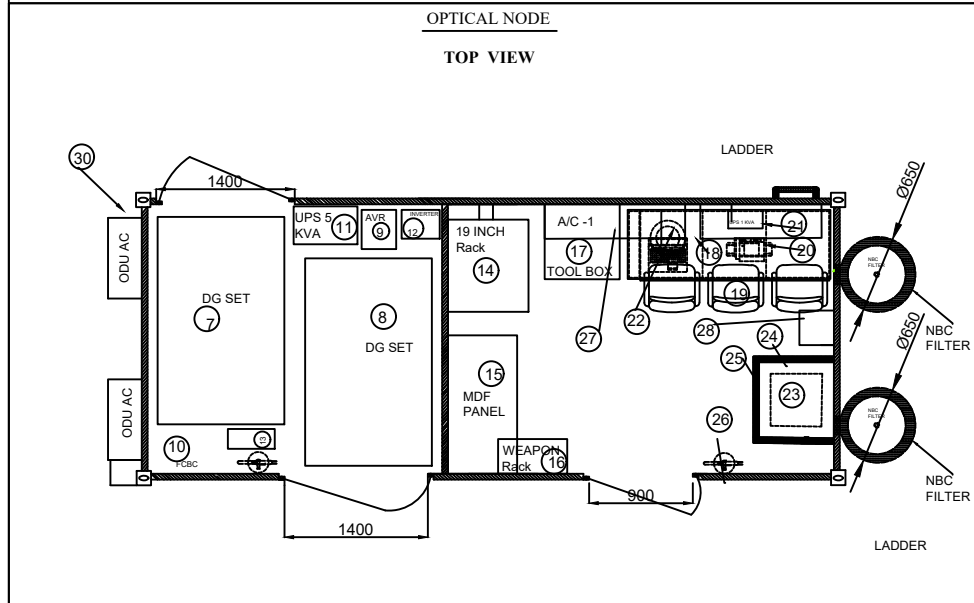
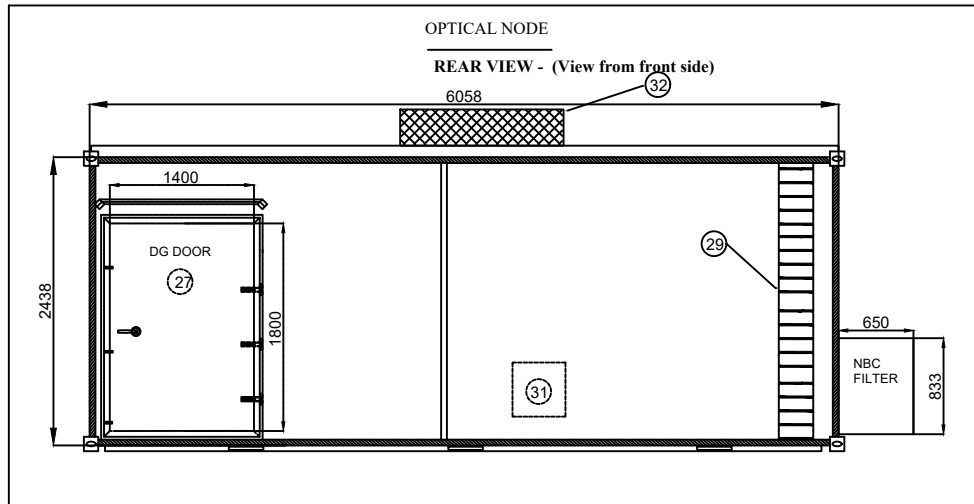


COMMUNICATION SHELTER

TRANSMISSION EQUIPMENT

DRN. ANKIT	ENGR.	C. NARGUNAN	
TRD.			
CHD. RAHUL	APP.	C. NARGUNAN	

- ① DG Main door
- ② Main entrance Door
- ③ Emergency Exit Door
- ④ Power Input Panel - mains Supply
- ⑤ Retractable staircase
- ⑥ NFC Filter
- ⑦ DG set - 11 KVA
- ⑧ DG Set -11 KVA
- ⑨ Automatic Voltage Regulator
- ⑩ FCBC
- ⑪ UPS 5 KVA
- ⑫ Inverter
- ⑬ Battery Bank
- ⑭ 19 inch Rack 40U
- ⑮ MDF Panel
- ⑯ Weapon Rack
- ⑰ Tool Box
- ⑱ Table
- ⑲ Operational Chair
- ⑳ Printer
- ㉑ UPS 1 KVA
- ㉒ Power Cable
- ㉓ Ration Box
- ㉔ Water Tank
- ㉕ Platform for water tank
- ㉖ Fire Extinguishers
- ㉗ Split A/c - 1.6 ton
- ㉘ Additional space for miscellaneous items
- ㉙ Fixed ladder
- ㉚ A/C ODU
- ㉛ o/p Panel for optical
- ㉜ Rooftop Luggage Box



PROVISIONAL
SIGN:-

ALL DIMENSIONS IN 'mm'

REF:-ASCON PHASE IV

W.O:- XXXXXX

U.O:- XXXXXX

- Note :
1. The cut out section is shown in the side view.
 2. The drawing is a provisional drawing of 6058 mm × 2438mm × 2438mm EMI shelter Dimension of equipments/items may vary. The exact dimensions will be provided during the design review.
 3. The layout plan can be changed by the shelter manufacturer for optimized design.
 4. The side view is only equipped with the outside equipments. Inside layout can be obtained from top and front view.

OPTICAL NODE SHELTER

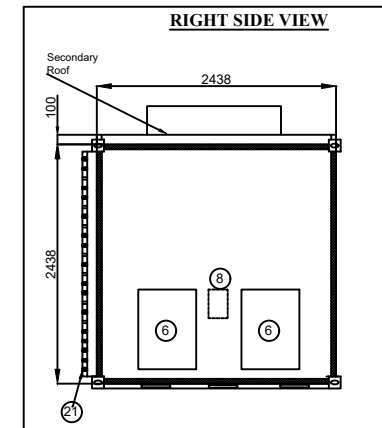
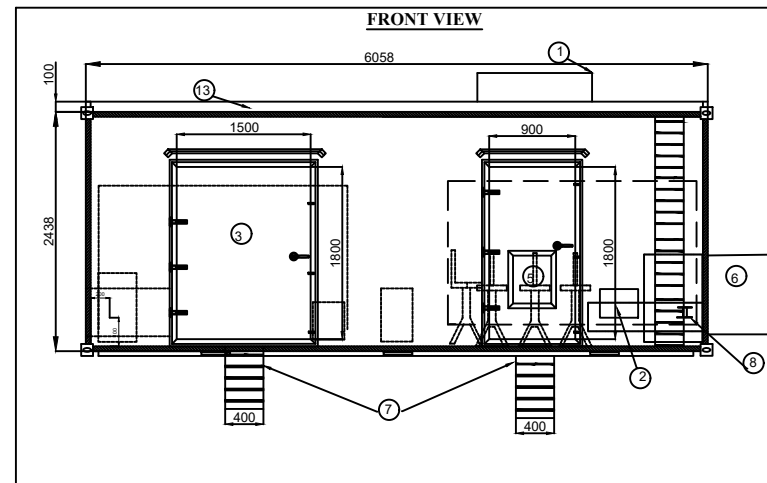
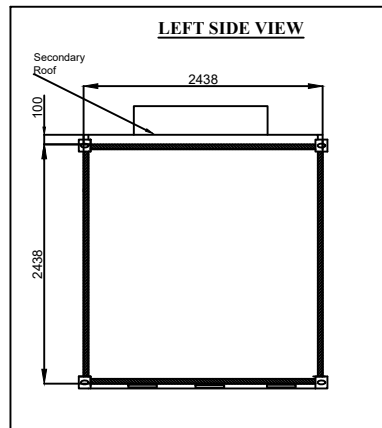
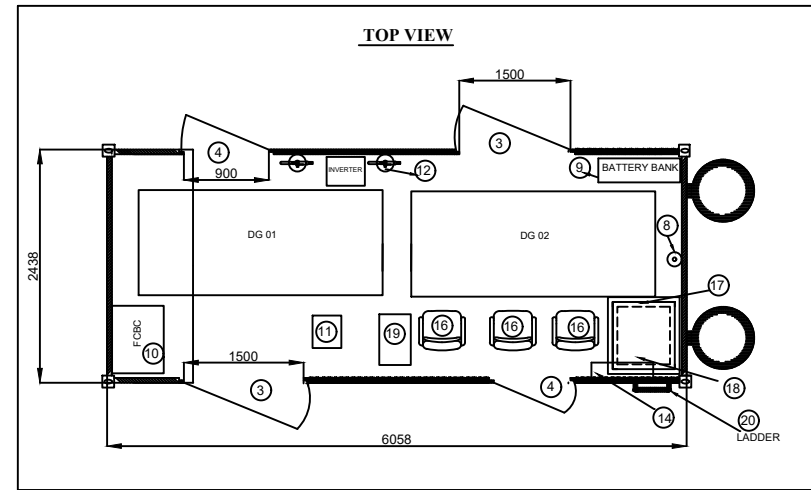
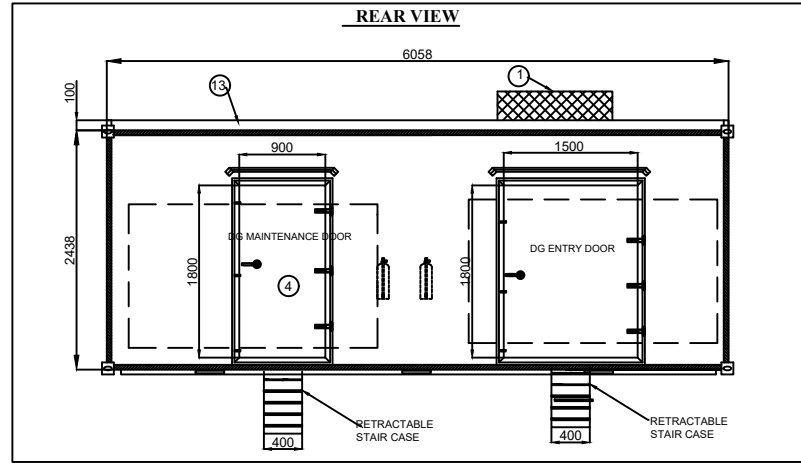
ASCON - PHASE 4

DRN. AARYAN	ENGR. C. NARGUNAN	
TRD.		
CHD.	APP. C. NARGUNAN	

XXXXXXXXXX
ITI LIMITED BANGALORE-16
A3

This document is the property of the ITI LIMITED Bangalore-16, India & may not be copied, reprinted or disclosed to a third party without the written consent of the proprietors.

- ① Rooftop Luggage Box
- ② Power I/O Panel
- ③ DG set Entrance Door
- ④ DG maintenance Door
- ⑤ Emergency Exit Door
- ⑥ NBC Filter
- ⑦ Retractable staircase
- ⑧ 100m power cable drum
- ⑨ Battery bank
- ⑩ FCBC 400A
- ⑪ AVR 75 KVA
- ⑫ Fire fighting equipment
- ⑬ Secondary Roof
- ⑭ MDF Panel
- ⑮ Weapon Rack
- ⑯ Operational Chair
- ⑰ Water Tank- 200L
- ⑱ Ration Box
- ⑲ UPS 5KVA with Battery
- ⑳ Fixed ladder



SHEET:- 1 OF 1		
DRAFT ISSUE		APP.
1	03-11-2020	CNG

PROVISIONAL
SIGN:-

ALL DIMENSIONS IN 'mm'
TOLERANCES TO RULING No. 16
REF.:--ASCN PHASE IV
W.O.:-- XXXXXX
U.O.:-- XXXXXX

POWER SHELTER

TRANSMISSION EQUIPMENT

DRN. ANIKIT	ENGR.	C. NARGUNAN	
TRD.			
CHD. RAHUL	APP.	C. NARGUNAN	

XXXXXXXXXX
ITI LIMITED BANGALORE-16
A3