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|  | ITI LIMITED | Phone No: | 080-28503662 |
| | | Fax No: | 080-28503653 |

BANGALORE PLANT

DOORAVANINAGAR BANGALORE - 560 016

ENQUIRY

| | | |
|--|------------------------|-------------------|
| | Enquiry Ref No: | C020I004 |
| | Enq Date: | 01.10.2020 |
| | Due Date :- | 14.10.2020 |

Please quote your best prices and delivery for the item as mentioned below.

| S/no | Description of the item | Qty |
|------|---|--|
| 1 | Integrated System Acceptance Test (ISAT) for Data Centre | As per the attached Scope of Work |

**Note: Detail Notice Inviting Tender
(Three Covers = Technical Bid + EMD + Commercial Bid) as per Specification attached**

IF any further technical detail required towards submission of offer please contact
Smt. Anila Sharadha - DGM (DS) Ph. No. 080 28503670 E-Mail : anilasharada_bgp@itilttd.co.in;

| | | |
|--------------|---|--|
| Note: | 1 | Delivery : Work should be completed WITHIN 1 Month in all respects. |
| | 2 | Your quoted price shall be all inclusive FOR ITI Ltd. Bangalore -16. |
| | 3 | ITI GST NUMBER: 29AAACI4625C1ZV. |

Your sealed quotation Subscribing our Enquiry reference and Due Date on the Envelope should reach us on or before **Due Date ie. 14.10.2020** before **2.00 pm**.

Special Note : (Technical Bid only will be opened on the next working day at 2.30 pm)

All Quotations 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)



SCOPE OF WORK FOR
INTEGRATED SYSTEM ACCEPTANCE TEST (ISAT)
FOR ITI DATA CENTER

ITI Limited
(A Govt of India Undertaking)

Ref: ITI/BGP/DC /ISAT/01/2020-21

Date: 22.09.2020

M/s ITI Limited,
Dooravani Nagar, Bangalore
Karnataka 560016

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OBJECTIVE

The main objective of this proposal is to build the datacenter network infrastructure which are being obsolete and setup a new connectivity as per the below mentioned network architecture. Switch over from existing hardware to new setup with minimum down time.

1. Introduction & Overview

ITI is in the process of constructing a new Data Center facility in Bangalore, India. In order to ensure successful completion of this project, ITI is looking to appoint a Integrated System Testing Agency cum Data Center Load Bank supplier for the Integrated System Acceptance Testing (ISAT) to be conducted as per the defined test procedure for a new Data Center commissioning.

Integrated System Acceptance Testing (ISAT) shall become the final part of the Data Center construction and handover process whereby the operation of the various systems in the Data Center will be tested as a single entity against the agreed ITE load of 2000 + 3600 kW in a simulated or artificial environment. The testing will be carried out post-commissioning and prior to handover. For the purposes of ISAT, the project is deemed to be complete with no snagging outstanding.

Overall the test objective will be to prove that the various commissioned systems as well as their interfaces work together as a single cohesive whole. The tests will be referenced against the contractor's detailed design and performance specification(s).

The purpose of integrated systems testing is to establish system performance; not only in normal operation, but to verify achievement of the resilience and redundancy requirement. While acknowledging the Tier III intent of the Data Center; the facility must be able to react to certain failures, even though not considered fault tolerant. Such failures should include loss of incoming utility supply and removal of redundant components to show the effect of change.

Maintainability within the context of data center operation is also important. An ISAT offers an opportunity for a facility operator to verify SOPs (Standard Operating Procedures), MOPs (Maintenance Operating Procedures) and EOPs (Emergency Operating Procedures) in a safe environment, where operator error will not impact upon the critical load with potential consequences.

A sound ISAT must seek to establish the limits of the facility at design conditions, whilst also acknowledging that correct operation at 2000 kW, does not guarantee that systems will offer low load stability. Performance must also offer stability at low loads that will be experienced during facility infancy where network build, rack & stack and progressive live process migration will result in a load profile that ramps up to the 5600 kW design load over a duration.

Understanding that the system does not modulate excessively at low load will ensure not only that the IT load is protected, but also assist in ensure design life of system components such as variable speed pumps, motorized valves, excessive compressor cycling, etc. is not compromised by continual hunting to achieve an unattainable condition. When at low load, UPS systems offer decreased efficiency and can have particularly 'noisy' front ends – in as much as the power factor and harmonic



content presented to generators can be sub-optimal. In pursuing low load testing, issues such as the generator/UPS interface can be verified as being stable. This may result in a decision to isolate (based upon the unit under isolation being cycled regularly to ensure that batteries do not discharge) one or more UPS in each distribution path.

ISAT offers an opportunity not only for performance verification, but a chance to see whether specific operational strategies need to be adopted to meet the client IT fit-out programme and project load growth. There are also potential opportunities to optimize energy efficiency should this be an objective for the client.

PRE-QUALIFICATION CRITERIA (PQC)

The vendor should be a registered corporate in India registered under the Companies Act, 1956 or A company/statutory body owned by Central/State Government. The necessary certificates, for example, Certificate of Incorporation in case of a Limited company, Registration Certificate should be submitted with the offer.

The Bidder should be a Registered Company in India for the last three years. Certified copy of the Certificate of Incorporation issued by the Registrar of Companies and Certificate of Commencement of business issued by the Registrar of Companies (For Public Limited Company) to be provided.

The Bidder should have Certified, ISO 9001:2008 and copy of Certificate to be enclosed.

The Bidder should have neither been blacklisted nor expelled from any project/contract, nor have had any contract terminated for breach thereof by any PSU Bank, Government/ Government agencies/ IBA/ RBI/ any other regulatory bodies during the last three years in India as on the last date of submission of the Bid offer. In addition that following documents to be enclosed as essential mandatory credentials..

- *Attested copy of GST Registration.*
- *Attested copy of PAN card.*
- *Attested copy of Memorandum of association & articles of association*
- *The authorization of the competent authority for signing the tender document*

The bidder shall have an annual turnover more than Rs. 5 Crores at least during last 3 year. Audited Financial Statements (B/S & P&L). Made a net profit in each of the last three financial years and has a positive net worth as per audited balance sheet and P&L account. The copies of balance sheet are to be submitted

Eligibility Criteria

Vendor / OEM should provide at least three testimonials / copy of Purchase Contracts from Govt / financial institution / PSU mentioning successful successfully completed LOAD TESTING [ISAT for DATACENTER]



The bidder should have successfully carried out and completed carried out of (LOAD TESTING [ISAT for DATACENTER]) at any Datacenters in India, in the previous 3 years period of value as prescribed below. Documentary evidence in form of purchase order to be provided. The bidder / OEM should have supplied / executed two orders LOAD TESTING [ISAT for DATA CENTER-] anywhere in India.

- THREE SIMILAR WORKS EACH COSTING NOT LESS THAN 40% OF THE ESTIMATED COST.
- TWO SIMILAR WORKS EACH COSTING NOT LESS THAN 60%
- ONE SIMILAR WORK COSTING NOT LESS THAN 80% OF THE ESTIMATED COST

Similar work shall mean **“PROVIDING LOAD BANK SERVICE /LOAD TESTING FOR ISAT / CONDUCTING IST/ISAT FOR DATA CENTER ‘**

CERTIFIED COPY OF WORK ORDERS AND COMPLETION CERTIFICATES ISSUED BY THE AUTHORITY CONCERNED TO ESTABLISH WORK EXPERIENCE.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 10% per annum, calculated from the date of completion of the last date of submission of bid”

Pre-ISAT activities as part of preparation for ISAT

Considering present site condition in various aspects it is required ISAT agency to take detailed study of infrastructure to understand all system is fully set to go for ISAT to avoid any road blocks like below

To avoid tripping of any breakers during the course of ISAT, Agency require to complete breaker discrimination study & set all breaker settings

All battery dis-charge test & identify faulty /healthy battery so that agency can swap all healthy batteries in Phase-1 UPS's so that ISAT would be seamless

Vacuuming of all HT/LT Panels right from utility to all Phase-1 & require to address any torqueing, panel preventive maintenance & megger values for incoming & out going cables to ascertain there should not be any fire & safety hazard during the course of ISAT

ISAT agency to submit organization chart exclusively for this project & share the testing schedule in advance upon conclusion of final agency shortlisted for this ISAT

Vibration analysis to be included for DG set on no load condition & ON full load condition to generate a base line for future reference.

ISAT agency to revert in advance on any dependencies to ensure presence of equipment OEM's & rectification/restore equipment or any piece of equipment full or partial failure at the minimum time (TAT)

ISAT Agency to allow OEM's to complete SAT for all major equipment OEM's before virtual start of ISAT to ensure safety & reliability.



All thermal imaging points to be listed in coordination with Facilities operation team to conclude & finalize to take before & after snaps (Images) during the course of load test at 25%, 50%, 75% & 100% & also same time any hot spots identified also to be rectified & final closure of observation & post thermal images at 100% load to be furnished.

The core objectives of the Integrated System Acceptance Test Service shall include the following:

1. Integrated systems acceptance tests (ISAT) to verify automation and system operations. These tests shall be planned for and scripted by the Testing Agency, in collaboration with the design engineers.
2. The primary objective of these tests will be to validate overall system performance under normal and failure modes of operation and transitioning to and from failure modes of operation.
3. Tests will be conducted under the maximum design load simulated by use of resistive load banks (Rack mounted)and will be validated by commissioning consultant.
4. Testing Agency shall supply, and install listed Test & Measuring Instruments at the identified points of measurement and measure/record all the required parameters as per scope of work.
5. Testing Agency shall supply, and install required resistive load banks at each Rack location as per intended design load. Each resistive load bank shall be separately connected to each under floor power sockets provided to connect the actual Server racks.
6. Final acceptance. The commissioning Agency shall conduct a final walkthrough of the facility and review all test and commissioning results and submit punch list of all the open issues that the contractors will have to address before the commissioning process completion.
7. If any of the tests in ISAT process does not result in expected results, the cause of the discrepancy to be identified and corrected by the contractor and the test repeated.
8. Integrated System Acceptance Test Agency shall supply load Banks and Testing Services for a minimum period of 15 Days. Any additional Day can be charged extra on per day basis cost. Offer shall include Cost for first 15 days and additional per day cost.
9. All Test& Measuring Instruments and load banks shall be supplied by Testing Agency on returnable basis.
10. All Test& Measuring Instruments and load banks shall be removed from the site within one week by the Testing Agency.

THE DATA CENTER ENVELOPE

- Monitoring and Recording System, including operational full functionality.



- Close Control Cooling System, made up of PAHU units.
- Chilled Water Cooling Plant, incl. chillers and all associated hydraulic plant.
- BMS and Motor Control in automatic mode plus testing in fail-safe and manual configuration.
- Electrical Distribution System, including switch boards and stability of overall power delivery.
- Validation of conformance to Electrical System Selectivity Study.
- Uninterruptible Power Supplies, on line and fully functional.
- Emergency Generators in fully automatic mains transfer mode.
- Fire Alarm System, including stability during testing of all systems except VESDA plant.

2. Scope of Work

The Integrated System Acceptance Test (ISAT) is a pinnacle of the commissioning program, and the performance of these activities demonstrates the performance of the facility as a whole against the owner's project requirements. The commissioned systems are operated at various loads and in various modes to demonstrate fully automated operation and proper response to equipment failures and utility problems. All the Test Scripts, Checklists and formats shall be prepared by the Testing Agency.

ITI would expect nothing less than a 100% success rate for all Integrated Systems Acceptance Tests.

The objective of the Integrated Systems Acceptance Tests is to undertake a series of planned simulated scenarios of plant failure to ensure that in the event of an unplanned or planned incident, be it a mains power failure, a fire in the building, loss of air conditioning, or scheduled UPS maintenance, that the redundant or back-up systems function and integrate correctly, bringing the incident under control without impacting the IT equipment.

During the engagement, Testing Agency in collaboration with Design Consultant shall develop a number of test scripts to simulate any anticipated failure mode. These test scripts will be verified against the Operational Logic and Design Report provided by the design consultant.

As part of the Integrated Systems Acceptance Test process, Testing Agent shall monitor the Testing and Trend Logging of each data center module and will benchmark the efficiency of the central plant for later use by operations staff.

Resistive load banks shall be used within the data center space connected to the UPS system powered sockets and placed to approximate the computer loads as close as possible.

Integrated System Acceptance Tests also provides an opportunity for training the O&M staff. Customer O&M Team/Staffs shall also be included in ISAT by the Agency as station lead for simulating the events, operating the systems and for manual data collection on the Checklists prepared by the Test Agency.

Data Centre shall be prepared for ISAT such that the findings are logged, trends reported and results produced to produce a final report on test activities. In order to verify that the installation is performing as expected the Server Room will be placed in different simulated scenarios in order to observe both cause and effect in such a fashion that it will provide confirmation of robustness and broader compliance to the cooling requirements of this specification

There are two elements of the project that will undergo Integrated Systems Acceptance Testing.

- ❖ Power system that protect the IT data areas of the facility.
- ❖ Cooling system that protects the IT data areas of the facility.

Following activities and deliverables shall be provided by Integrated System Acceptance Testing Agency as part of the scope of service.

1. Site walkthrough and Site Study
2. Study of design intent, Design Specifications, System Specifications and Design drawings.
3. Study design load calculations and equipment specifications and system operational logic.
4. Identify the Test locations/Stations.
5. Identify the points of measurements for each Test Station / Equipment that has Equipment Display / Meters.
6. Identify the points of measurements for each Test Station / Equipment where external Test & Measuring equipment to be used.
7. Identify the resource allocation for required for each test stations and Test Command Center.
8. Creation of Integrated System Test Script for Burn-in Test on different load level and Failover tests for different scenarios, based on the design intent
9. Creation of Data log Checklist for parameter measurement for different Test location / Systems.
10. Supply and Installation of heater loads banks as per Specification Given.
11. Supply and Installation of Test & Measuring Instrument as per Test & measuring Instrument Schedule given
12. Conducting Burn in tests for DC floor for 25%, 50%, 75%, and 100% - Loads.
13. Conducting Fail over tests on Utility, Critical Power Devices and Cooling Systems as per Tier-3 configuration.
14. Performance test of IBMS and Fire protection System
15. Submission of Final ISAT report

16. Parameters of all Panels & Equipment Display meters shall also be used for recording and analyzing the performance of the test.
17. Screen shots and Parameter recording in the IBMS, which are relevant for the tests, shall be monitored and collected by ISAT Agency, from IBMS Team. All such screenshots and alarms shall be compared and validated with manual Log-Sheets.

| SL No | EQUIPMENT TO BE TESTED IN PHASE 1 |
|-------|--|
| 1 | Transformers – Unimac make 04 NOs – 3500 KVA |
| 2 | DG Sets – Ashok Leyland 05 NOs – 2000 KVA |
| 1 | Chillers – Climaveneta make 04 NOs– 450 TR |
| 2 | Circulation / Storage Tank – 2 Nos – 55,000 Ltrs each |
| 3 | PAHU Units – Schneider make – 24 NOs |
| 4 | CW Circulation Pumps – Primary 4 NOs & Secondary 4 NOs |
| 5 | UPS – Schneider – 500 KVA * 8 and 100 KVA *2 |
| 6 | PDU's – 28 NOs |
| 7 | All Electrical Switch Boards and Panels |
| 8 | Switches, Relays, Breakers, Power Meters |
| 9 | Fire Alarm, Smoke Detection System.- Entire system of Phase 1 will include |
| 10 | Gaseous Fire Suppression Systems – Entire system of Phase 1 will include |
| 11 | Water Leak Detection System for Phase 1 |

| SL No | EQUIPMENT TO BE TESTED IN PHASE 2 |
|-------|--|
| 1 | UPS – Schnieder – 500 KVA * 8 and 100 KVA *2 |
| 2 | PDU's – 64 NOs |
| 3 | PAHU Units - Schneider make – 35 NOs |
| 4 | All Electrical Switch Boards and Panels |
| 5 | Switches, Relays, Breakers, Power Meters |
| 6 | Fire Alarm, Smoke Detection System - Entire system of Phase 2 will include |

| SL No | EQUIPMENT TO BE TESTED IN PHASE 2 |
|-------|--|
| 7 | Gaseous Fire Suppression Systems – Entire system of Phase 2 will include |
| 8 | Water Leak Detection System for Phase 2 |

3. Test Load Bank Specification & Schedule

This Data Center ISAT shall be conducted using Resistive load Banks which will be deployed as per the design layout and distribution. The heat Load proposed is bank of **calibrated heat load of 2 KW module and each LOAD BANK with ENCLOSURE and FORCED VENTLIATION by means of FAN socket to connect to Industrial sockets inside raised floor void** on a cabinet with perforations in front of the cabinet, with a fan at the rear of the cabinet..

PHASE 1: 343 RACKS

The test proposed for Phase 1, shall be conducted using resistive heat load bank of 343 NOS 6 kW/cabinet for 2000 KW load demand along with the Test & Measuring Equipment as per the list given below. To meet the total demand of 2000 KW for I phase, Testing Agency shall provide appropriate numbers of resistive load bank cabinets aligned to the designed rows.

PHASE 2 : 600 RACKS

The test proposed shall be conducted using resistive heat load bank of 600 NOS 6 kW/cabinet for 3600 KW load demand along with the Test & Measuring Equipment as per the list given below. To meet the total demand of 3600 KW for II phase, Testing Agency shall provide appropriate numbers of resistive load bank cabinets aligned to the designed rows.

4. Test & Measuring Equipment Schedule

Following equipment's shall be arranged by the Integrated System Test Agency for the ISAT on returnable basis

Electrical System Testing Equipment

| Equipment Details | Quantity |
|---------------------------------------|----------|
| Thermo graphic Camera | 1 No's |
| AC/DC Clamp meter with voltage probes | 1 No's |
| Power Quality Analyzer | 4 No's |

HVAC System Testing Equipment's

| Equipment Details | Quantity |
|-------------------|----------|
|-------------------|----------|



| | |
|--|---------|
| Temperature & Humidity measuring meter | 20 No's |
| Anemometer | 1 No's |
| Ultrasonic Flow Meter | 1 No's |
| Flow Hood | 1 No's |

TEMPERATURE AND RH LOGGING

Temperature and relative humidity data loggers shall be located in positions agreed by the team within the Server Room.

BMS SENSORS AND DATA DOWNLOAD

All fixed wire sensors located within the Server Room (if any installed at site) shall record data for the duration of the ISAT. Information collected from these sensors shall form an integral part of the ISAT test record and provide back-up to the temporary sensors should any of these fail during the test sequences.

THERMAL IMAGING

Thermal images of the various test conditions shall be taken. These shall be recorded accurately and identified as to location, time and test sequence in the final report document.

Apart from the above schedule, Parameters from all Panels, bus ducts, HT/LT cable terminations on in put & Out put side & Equipment Display meters shall be used for recording with location & equipment name and analyzing the performance of the test.

Project Timeline

Expected Timeline for total Integrated System Acceptance Test may be 3 to 10 Days. However, Final acceptance of the test is by reviewing all tests and commissioning results. As it is a requirement to obtain a 100% success rate during these tests, in case the systems fail during the test sequence; a full retest of the failed systems is required. It will be the responsibility of the installation contractor at fault to fix the root cause of the failure before conducting a retest

Deliverables

During the course of this project, following deliverables are expected. All documents will be provided in Softcopies and electronically as required. All interim reports will be provided in English. The final commissioning report will also be provided in English.

Integrated System Acceptance Test Scripts

Integrated System Acceptance Test Data collection Checklists

Final ISAT Report to be submitted within 15 working days from completion of test

All documents shall be provided in soft copies. All interim reports and final ISAT report shall be provided in English.

5. Roles and Responsibilities

In order to carry out a full testing program the work responsibilities will be divided between those which will be carried out by the specialist consulting engineers and the supporting role required of the main contractor.

Once the Data Center has been completed and fully commissioned, a series of Thermal and Dynamic Systems Tests followed by Pull the Plug Testing will be carried out. These three work elements will make up the ISAT and constitute the final handover phase for the project.

These responsibilities (this schedule is not exhaustive and is subject to revision/update) are defined as follows:

Works to be carried out by a specialist consultant / ISAT Vendor:

- Setting safety expectations and responsibilities of the ITI / ISAT team.
- Plan for extended hours working.
- Carrying out a review of the DC commissioned status.
- Write ISAT document including thermal, dynamic and pull the plug test requirements. This work will include setting out the objectives, methodology and planning of the tests.
- Writing test scripts, preparing flow charts and time line schedules.
- Setting out the pre-requisites and key deliverables required of the main contractor.
- Validate the testing set-up that will be carried out by the main contractor

PRE-CONTRACT INTEGRITY PACT

GENERAL

This pre-bid pre-contract agreement (hereinafter called the Integrity Pact) is made on....., between, ITI Limited, Dooravaninagar, Bangalore - 560016, India, (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and m/s..... (*address of the Bidder*) (hereinafter called the "BIDDER " which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to invite Expression of Interest (EoI) for selection/ empanelment of technology partner for a technical tie-up with ITI for the marketing/manufacturing of (*name of the product*) and the BIDDER is willing to participate in the EoI as per the terms and conditions mentioned thereon;

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership company (*strike off whichever is not applicable*), constituted in accordance with the relevant law in the matter and the BUYER is a PSU under the Department of Telecommunications, Ministry of Communications & IT, Government of India.

NOW, THEREFORE,

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

Enabling the BUYER to select/ empanel a technology partner for the marketing/manufacturing of (*name of the product*) through the EoI in a transparent and corruption free manner, and

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

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

1. Commitments of the BUYER

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either

for themselves or for any person, 'organisation or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- 1.2 The BUYER will during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

3 Commitments of BIDDER

- 3.1 The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
 - a) The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - b) The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or, execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.
 - c) BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

- d) BIDDERS shall disclose the payments to be made by them to agents/ brokers or any other intermediary, in connection with this bid/contract.
- e) The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/ integrator and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such, intercession, facilitation or recommendation.
- f) The BIDDER either while presenting the bid or during pre-contract negotiations or before signing the contract, shall 'disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- g) The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- h) The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- i) The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- j) The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- k) The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- l) If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

- m) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4 Previous Transgression

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

5 Sanctions for Violations

- 5.1 Any breach of the aforesaid provisions by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-
 - a) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - b) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - c) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission.
 - d) To recover all sums paid in violation of this Pact by the BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- 5.2 The BUYER will be entitled to take all or any of the actions mentioned above, also on the Commission by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 5.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

6 Independent Monitors

- 6.1 The BUYER appoints Independent Monitor (hereinafter referred to as Monitor) for this Pact in consultation with the Central Vigilance Commission.
- 6.2 The task of the Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 6.3 The Monitor shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 6.4 Both the parties accept that the Monitor have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 6.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 6.6 The BIDDER(s) accept(s) that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER with confidentiality.
- 6.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 6.8 The Monitor will submit a written report to the designated Authority of BUYER within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

7 Facilitation of Investigation

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

8 Law and Place of Jurisdiction

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

9 Other Legal Actions

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

10 Validity

10.1 The validity of this Integrity Pact shall be from date of its signing and extend up to the contract period with the BUYER in case a contract is signed. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

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

11 The parties hereby sign this Integrity Pact.

BUYER
Name of the Officer.
Designation
ITI Limited (address)
Place:
Date:

BIDDER
CHIEF EXECUTIVE OFFICER
M/s (address)

Place:
Date:

Witness:

1.
2.

1.
2.

NOTICE INVITING TENDER (THREE COVER SYSTEM)

Detailed Enquiry is uploaded in M/s. ITI Limited website www.italtd-india.com. **In tender column (Bangalore Plant)**

For further details/clarification please contact

Deputy General Manager - IMM-PPC
M/s. ITI Limited, Bangalore Plant,
Dooravani Nagar, Bangalore 560 016,
Telephone No: 080 28503606, Email: avmurdeswar_bgp@italtd.co.in

Bids will be received by the

Mailing Section
M/s. ITI Limited, Bangalore Plant,
Dooravani Nagar
Bangalore 560 016

The tender shall be submitted in the three cover system as follows:

1. Part-I (Technical Bid) shall be enclosed in a double sealed cover super scribed with "Part-I (Technical Bid) with detail of machines quoted with supporting document such as catalogues/ leaflets, with tender reference, due date of submission and opening date and firm's address with phone no. / E-mail".
2. Part-II (Commercial Bid) shall be enclosed in another double sealed cover super scribed with "Part-II (Commercial Bid), with tender reference, due date of submission and opening date and firm's address with phone no. / E-mail".
3. Part-III (EMD) shall be submitted of an amount Rs. 2,02,400/- (Rupees Two Lakhs Two Thousand and Four Hundred Only) through Bank Demand Draft In favour of "ITI LIMITED" Bangalore.

All the above three documents shall be kept in a separate sealed cover and shall be enclosed in another one sealed cover super scribed with tender reference, due date of submission and opening date and firm's address with phone no. / E-mail".

Sealed tender should be addressed to

**Deputy General Manager - IMM-PPC,
M/s. ITI Limited, Bangalore Plant,
Dooravani Nagar,
Bangalore 560 016**

Note :- Quotation shall be valid for 180 days from the date of opening of the tender.

DETAILS OF BID:

Part-I Technical Bid : It shall consist of the following documents enclosed in a double sealed cover.

1. Description of item, Make, Model along with technical brochure containing detail specification, data sheet Etc without price detail.

2) Item wise Compliance Report for the entire enquired item.

Note: No price shall be mentioned in technical bid.

Part-II (Commercial Bid) : It shall consist of the Description of item , Make , Model with price detail I.e. Unit price (delivery to ITI Ltd Bangalore) and applicable statutory levies (Sales Tax, Entry Tax / Octroi, Freight charges etc)

The statutory levies shall be clearly mentioned in percentage/ amount for each item. The description written as inclusive or exclusive or actual shall not be accepted. The rate shall be quoted FOB / Ex-Works / FOR ITI Limited, Bangalore

NOTE: All the pages of the quotation shall be signed and stamped by the tenderer and submitted.

1. Only the EMD cover shall be opened first and Technical Bid of those vendors who has submitted EMD shall be opened thereafter, on the due date. The date and time of opening of the commercial Bid shall be intimated only to the technically qualified bidders, well in advance

Deputy General Manager - IMM-PPC,